City of Manteca

The Crossings Manteca Project
Minor Use Permit (UPN-21-65)
Site Plan/Design Review (SPC-21-64)
Tentative Parcel Map
Commercial Planned Development (PCD 22-019)
Rezone (REZ 22-021)
Site Plan/Design Review (SPC 22-002)
Environmental Document (EIR 22-020)
Draft Initial Study and Mitigated Negative Declaration

Prepared for
City of Manteca
City of Manteca Development Services Department
1215 W. Center St. Suite 201
Manteca, CA 95337

June 2022

Prepared by
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Table of Contents

1.0 INTRODUCTION & PURPOSE 1
1.1 Purpose and Scope of the Initial Study 1
1.2 Summary of Findings 1
1.3 Initial Study Public Review Process 2
1.4 Report Organization 2
2.0 DESCRIPTION OF PROPOSED PROJECT 4
2.1 Project Location 4
2.2 Environmental Setting 4
2.3 Proposed Project 5
3.0 INITIAL STUDY CHECKLIST 15
4.0 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED 18
5.0 ENVIONRMENTAL ANALYSIS 19
5.1 AESTHETICS 19
5.2 AGRICULTURE AND FORESTRY RESOURCES 22
5.3 AIR QUALITY 24
5.4 BIOLOGICAL RESOURCES 39
5.5 CULTURAL RESOURCES 43
5.6 ENERGY 46
5.7 GEOLOGY AND SOILS 53
5.8 GREENHOUSE GAS EMISSIONS 58
5.9 HAZARDS AND HAZARDOUS MATERIALS 73
5.10 HYDROLOGY AND WATER QUALITY 80
5.11 LAND USE AND PLANNING 87
5.12 MINERAL RESOURCES 88
5.13 NOISE 90
5.14 POPULATION AND HOUSING 110
5.15 PUBLIC SERVICES 112
5.16 RECREATION 115
5.17 TRANSPORTATION 117
5.18 TRIBAL CULTURAL RESOURCES 126

5.19 UTILITIES AND SERVICE SYSTEMS 128
5.20 WILDFIRE 133
5.21 MANDATORY FINDINGS OF SIGNIFICANCE 135
6.0 REFERENCES 137
Appendix A Air Quality Modeling Data 140
Appendix B Health Risk Assessment (HRA) Modeling data 141
Appendix C SJCOG Adviosry Statement 142
Appendix D SJCOG Certificate of Payment 143
Appendix E Cultural Resources Study 144
Appendix F Energy Calculations Modeling Data 145
Appendix G Greenhouse Gas Modeling Data 146
Appendix H Noise Measuremnt Field Data 147

Tables

Table 1: State and Federal Ambient Air Quality Standards 25
Table 2: SJVAPCD Criteria Pollutant Thresholds of Significance 29
Table 3: Construction-Related Emissions 31
Table 4: Project Operational Emissions 32
Table 5: Construction Risk Assessment Results 36
Table 6: Operational Risk Assessment Results 37
Table 7: Project Energy Consumption During Construction 49
Table 8: Annual Energy Consumption During Operations 50
Table 9: Construction Greenhouse Gas Emissions 69
Table 10: City of Manteca CAP Consistency 71
Table 11: Maximum Allowable Noise Exposure from Mobile Noise Sources 91
Table 12: Performance Standards for Stationary Noise Sources or Project Affected by Stationary Noise Sources 92
Table 13: City of Manteca Zoning Ordinance Noise Standards 94
Table 14: Noise Level Corrections 95
Table 15: Noise Measurements 96
Table 16: Sensitive Receptors 97
Table 17: Typical Construction Noise Levels 98
Table 18: Project Construction Noise Levels 100

Table 19: Operational Noise Levels **106**
Table 20: Typical Construction Equipment Vibration Levels **108**
Table 21: Intersection LOS Analysis **118**
Table 22: Water Supply and Demand – Normal Year (AFY) **129**
Table 23: Water Supply and Demand – Single Dry Year (AFY) **130**
Table 24: Water Supply and Demand – Multiple Dry Years (AFY) **130**

Figures

Figure 1: Regional MapFigure 2: Local Vicinity Map **9**
Figure 3: US Topographic Map **11**
Figure 4: Site Plan **12**
Figure 5: Maverik Gas Station Site Plan **13**
Figure 6: Noise Measurement Locations **14**

Exhibit 1: Vehicle Miles Traveled (VMT) by Land Use 121
Exhibit 2: Proximity of Major Building 1 to Existing Grocery Stores 123
Exhibit 3: Proximity of Project Hotel to Existing Hotels 124

Appendices

Appendix A: *Air Quality Modeling Data*
Appendix B: *Health Risk Assessment (HRA) Modeling Data*
Appendix C: *SJCOG Advisory Statements*
Appendix D: *SJCOG Certificate of Payment*
Appendix E: *Cultural Resources Study*
Appendix F: *Energy Calculations Modeling Data*
Appendix G: *Greenhouse Gas Model Data*
Appendix H: *Noise Measurement Field Data*

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1.0 INTRODUCTION & PURPOSE

1.1 Purpose and Scope of the Initial Study

This Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared in accordance with the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] Section 21000 et seq.) and its Guidelines (California Code of Regulations [CCR], Title 14, Section 15000 et seq.), to evaluate the potential environmental effects associated with the construction and operation of the Crossings Project. Pursuant to Section 15367 of the State CEQA Guidelines, the City of Manteca (City) is the lead agency for the Project. The lead agency is the public agency that has the principal responsibility for carrying out or approving a project.

As set forth in the State CEQA Guidelines Section 15070, an IS/MND can be prepared when the Initial Study has identified potentially significant environmental impacts, but revisions have been made to a project, prior to public review of the Initial Study, that would avoid or mitigate the impacts to a level considered less than significant; and there is no substantial evidence in light of the whole record before the public agency that the project, as revised, may have a significant effect on the environment.

1.2 Summary of Findings

Section 3.0 of this document contains the Environmental Checklist that was prepared for the proposed Project pursuant to CEQA requirements. The Environmental Checklist indicates whether the proposed Project would result in significant impacts with the implementation of mitigation measures, as identified throughout this document.

MITIGATION MEASURES

State CEQA Guidelines Section 15041, *Authority to Mitigate,* gives the lead agency for a project the authority to require feasible changes in any or all activities involved in the project in order to substantially lessen or avoid significant effects on the environment, consistent with applicable constitutional requirements such as the "nexus" and "rough proportionality" standards. CEQA Guidelines Section 15364 defines "feasible" as capable of being accomplished in a successful manner within a reasonable period of time, considering economic, environmental, legal, social, and technological factors. Mitigation measures will be adopted to reduce the environmental impacts to less than significant levels and must be consistent with all applicable constitutional requirements, including the following:

- There must be an essential nexus (i.e., connections) between the mitigation measure and legitimate governmental interest.
- The mitigation measure be "roughly proportional" to the impacts of the project.

Several forms of mitigation under CEQA Section 15370 are summarized as follow:

- Avoiding the **impact** by not taking a certain action(s);
- **Minimizing** impacts by limiting the degree or magnitude of the action and its implementation;

- **Rectifying** the impact by repairing, rehabilitating, or restoring the impact environment;
- **Reducing** or eliminating the impact over time by preservation and maintenance operations during the life of the action; and
- **Compensating** for the impact by replacing or providing substitute resources or environment.

Avoiding impacts is the preferred form of mitigation, followed by minimizing or rectifying the impact to less than significant levels. Compensating for impacts would be pursued if no other form of mitigation is feasible.

ENVIRONMENTAL RESOURCE TOPICS

This IS/MND evaluates the proposed Project's impacts on the following resource topic:

- Aesthetics
- Agricultural and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazard and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Transportation
- Utilities and Service Systems
- Wildfire

1.3 Initial Study Public Review Process

The Initial Study and a Notice of Intent (NOI) to adopt this MND will be distributed to responsible and trustee agencies, other affected agencies, and other parties for a 30-day public review period.

Written comments regarding this MND should be addressed to:

Lea Simvoulakis
City of Manteca Development Services Department
1215 W. Center St. Suite 201
Manteca, CA 95337
lsimvoulakis@ci.manteca.ca.us

1.4 Report Organization

This document has been organized into the following sections:

Section 1.0 – Introduction. This section provides an introduction and overview describing the conclusions of the Initial Study.

Section 2.0 – Project Description. This section identifies key project characteristics and includes a list of anticipated discretionary actions.

Section 3.0 – Initial Study Checklist. The Environmental Checklist Form provides an overview of the potential impacts that may or may not result from project implementation.

Section 4.0 – Environmental Factors Potentially Affected. This section identifies the environmental factors that could be potentially affected by the proposed project.

Section 5.0 – Environmental Evaluation. This section contains an analysis of environmental impacts identified in the environmental checklist.

Section 6.0 – References. The section identifies resources used to prepare the Initial Study.

2.0 DESCRIPTION OF PROPOSED PROJECT

2.1 Project Location

The project is located in in the City of Manteca within San Joaquin County, California. The project site is located in the southwest corner of the City of Manteca's boundaries. The center of town is located approximately 2.5 miles to the northeast. The site is directly south of the State Route (SR) 120 eastbound off ramp at Airport Way (Exit 3). The project is comprised of two Assessor's Parcel Numbers (APNs), 241-320-58, in the top west corner, and 241-320-44. The project site has two street addresses: 2303 W Atherton Drive and 1527 S Airport Way. Please see ***Figure 1, Regional Map*** and ***Figure 2, Vicinity Map*****.**

2.2 Environmental Setting

REGIONAL SETTING

The City of Manteca is located in central California, approximately 65 miles directly east of San Francisco and 12 miles south of Stockton. Manteca is located within an area of California called the Central Valley. This area is an elongated valley occupying the central region of California, running on average 50 miles wide and 400 miles from north to south (USGS, 2021). The project site falls within an area of the Central Valley called the San Joaquin Basin. The San Joaquin River flows through the basin with outlets to the San Francisco Bay and Pacific Ocean. The City of Manteca is located at the top northwest boundary of the basin. The project site is shown on the U.S. Geological Survey's Lathrop, California, 7.5-minute quadrangle map (See ***Figure 3, U.S. Topographic Map***).

LOCAL SETTING

The area to the northeast of the project site, toward the center of town, is predominantly developed, including residential, commercial, and industrial uses. To the South and West of the site is agriculture and low density residential, designated LDR in the General Plan. Directly southwest of the project site is W Atherton Drive and opposite that is a single-family residential community designated LDR. South of APN 241-320-44 is a previously disturbed undeveloped site, designated general commercial (GC) in the General Plan. Immediately west is another previously disturbed undeveloped lot designated GC. Directly north of the site is the off ramp for SR 120. Directly east of the site is Airport Way and on the opposite side of the rode is a previously disturbed undeveloped lot, similar shape to the project site, that is also GC (City of Manteca, 2021).

The project site is currently previously disturbed undeveloped land, with minimal brush scrub vegetation. The top west section of 2303 W Atherton Dr or APN 241-320-58 is also previously disturbed undeveloped land, however, a portion of the APN is developed and currently under commercial use as Sterling Home Showcase. There is hardscape and landscaping, including trees, within this portion of the site and approximately 11 buildings.

The proposed project area has existing utility stubs provided on site, street lighting along Atherton Drive and Airport way, and existing curbs, gutters, and sidewalks along the frontage of the parcel. This covers a majority of the east project site border and wraps around the southern border stopping at the end of the developed section of 2303 W Atherton Dr.

The project site itself is designated GC in the General Plan and zoned CG (General Commercial Zoning District) in the Municipal Code (City of Manteca, 2011). The Municipal Code describes this area as:

> "… wholesale, warehousing, and heavy commercial uses, highway-oriented commercial retail, public and quasi-public uses, and similar and compatible uses. The designation is also intended to accommodate visitor lodging, commercial recreation and public gathering facilities, such as amphitheaters, or public gardens. It also allows most neighborhood and mixed commercial uses."

The proposed development on the site would require project specific use permits depending on the commercial use. The proposed Maverik Gas Station in the southeast corner of the site is permitted upon issuance of a Minor Use Permit and Site Plan Review within the General Commercial Zoning District.

2.3 Proposed Project

The proposed project, called The Crossings, proposes a 17.6 acre mixed commercial use development, including 11 buildings, parking, and pocket park located at 2303 W Atherton Drive and 1527 S Airport Way. The proposed development can be defined by four major components: The Hotel, Anchor Tennant Building 1, Commercial Shops A-H, and the Maverik Gas Station. Please see ***Figure 4: Site Plan***.

1. The Hotel site is approximately 2.41 acres with 117 hotel rooms and 121 parking stalls.
2. Major Tennant Building 1 is approximately 55,000 square feet with 220 parking stalls,
3. Commercial Shops A-H total approximately 42,700 square feet with 291 parking stalls, and
4. Maverik Gas Station is approximately 6,140 square feet with 38 parking stalls.

The Crossings has a total of 7 access points, 2 of which are associated solely with the Hotel. The main entrance into the Crossing Project site is located off of W Atherton Drive and across from Langum Way. There is a proposed signalized intersection at this location as well. There are 2 access points north of the proposed signalized intersection that would lead to the proposed Major Building 1. One leading around the back of the building and one to the west end of the central parking lot. East the of the signalized intersection entrance, there is an access point that leads directly to the gas station. Additionally, there is one final right-in right-out access point off of Airport Way, on the east boundary of the project site. This leads to Commercial Shops to the north and the gas station to the south.

Within The Crossings project site the hotel is connected to the commercial parking lot through a drive aisle north of the hotel. Within the project site, Shops A, B, D, E, F, G, and the Gas Station all have roads wrapping around the building with parking off the building front. The project site also contains a picnic area/pocket park located between buildings F and G, along the northern boundary. Landscaping throughout The Crossings would remain consistent to give an overall cohesive look and would conform to the City's landscape requirements. There are no required land use changes, as the proposed mixed-use development is consistent with the existing land use designations. There is one existing 2,200 square foot office building located in the northwest corner of the site that would require demolition. Grading over the entire site would consist of 32,700 cubic yards of balanced cut and fill and occur over a 7-day period. The proposed development would tie into existing water, stormwater, sewer, gas, electrical, and telecommunications utilities located within Atherton drive.

PROJECT COMPONENTS:

Hotel:

The hotel is located in the top west corner of the project site on approximately 2.41 acres. It contains a 4-story building containing 117 hotel rooms, 121 parking stalls including handicap accessible stalls, a pool, and an outdoor patio. To enter and exit the hotel there are two access points off of Atherton Dr, one on either end of the building that circle around the hotel. Additionally, the drive aisle north of the hotel connects to the commercial uses on the Crossings Project site. The driveway wrapping around the pool and building is lined with parking stalls. Landscaping around the site includes condensed trees on the southeast end which creates a boundary between the rest of The Crossings project site.

Major Building 1:

Major Building 1 is a potential grocery store with an approximately 55,000 square foot building and a parking lot. The building and parking lot would be located in the northwest/center section of The Crossings project site. To access the major centralized building there would be three primary access points. The one located furthest west would wrap around the back of the building. The other two would be located on both ends of the associated parking lot. The major building would also have two delivery truck loading and unloading stations along the back of the building which faces northwest. The front of the building would face southeast with the associated parking lot beyond it including 220 parking stalls with handicap accessible and Electric Vehicle (EV) charging stalls.

Commercial Shops (A-H):

The proposed commercial retail (Shops A-H) throughout The Crossings project site would be primarily focused in the center and northeast corner. There are eight proposed buildings, with a total of 42,700 square feet and 291 parking stalls. These commercial retail uses potentially include, retail shops, a vehicle service station, restaurants (sit down and quick service restaurants), etc. Shops A-H are located along the boundaries of the site. Shops J (10,900 square feet) and A (6,400 square feet) are located on the south boundary of the site and face out toward the central parking lot. Shop B is located along the west boundary of the project site to the east of the proposed signalized intersection. Building B (2,000 square feet) may be a vehicle service station, and therefore has a drive through configuration with parking along the east side of the building. Shops (C, D, E, and F) are all located in the northeast corner of The Crossings site with approximately 106 parking stalls located in the center including handicap accessible and EV charging stalls. Shop C would be 4,000 square feet with sidewalks connecting it to shops D and E and the Gas Station. Building D (5,000 square feet) and E (950 square feet), located further northeast, along the project site boundary, face west and have two proposed drive through lanes wrapping around the buildings starting on the south end of Shop D. Shop F is approximately 3,000 square feet and located along the north project boundary. Shop F also proposes a wrap-around driveway and would face south. Shop G, approximately 5,000 square feet, would be located further west along the northern project boundary. It also would have a road wrapping around the back of the building. Located between Shop F and G on the northern project boundary would be a picnic/pocket park area of approximately 6,500 square feet.

Gas Station:

The Maverik Gas Station is located in the southeast corner of the project site. The proposed convenience store building is approximately 6,140 square feet, has 1 entrance on the west side of the building, 2 entrances on the south, and 2 entrances on the east side. The convenience store would provide fueling, packaged beer and wine sales, as well as fresh food items, and restroom facilities which would be open to the public. The convenience store would operate 24 hours a day, 7 days a week. The gas station would include 7 fuel dispensers (14 fueling positions) with a canopy on the east side of the building and 4 commercial fuel dispensers (8 fueling positions) with a canopy on the west of the building. The gas station would sell both diesel and gasoline fuel. The gas station also includes a self-service air tire pump, RV dumping, a bike rack, and outdoor picnic tables. The gas station would receive approximately 1 fuel delivery per day and 2 deliveries for the convenience store. See ***Figure 5, Maverik Gas Station Site Plan*****.**

Store Exterior

The building elevations, building materials and floor plan depict the architectural style and themes of the Maverik brand. The exterior of the building would consist of metal roof elements, fiber cement, cultured stone, glass storefront, steel truss beams, etc. HVAC equipment would be situated on the store roof and screened from view by a parapet wall and is consistent with code requirements for screening roof mounted mechanical equipment and blending in with the surrounding community. The fuel canopy includes the same architectural elements and materials, so the design is consistent throughout the Maverik Gas Station.

Traffic access and Parking

There are 38 parking stalls associated with the gas station. There are 19 stalls on the east side of the building, including, 2 handicap stalls, one van accessible. Seven stalls would be pre-wired for EV parking, with one van accessible.

The Crossings project proposes pavement in a U shape surrounding the building. To access the refueling stations and convenience store, there is a right-in right-out access point to the northeast of the building (also leading to the northeast corner of the site) off of Airport Way. Another entrance to the gas station would be from W Atherton Drive, on the south boundary of the project site. Other entrances to the gas station would be from the northwest within The Crossings site.

Fuel

There are a proposed three underground fuel tanks located directly west of the building that would supply the site. The gas station would have an annual throughput of 2,862,000 gallons of unleaded fuel and 2,438,000 gallons of diesel fuel on an annual basis.

Stormwater

The Maverik site includes 2 bioretention basins, one in the southeast corner approximately 1,240 square feet and 1.5 feet deep, and the other on the southwest side approximately 2,150 square feet and 1.6 ft deep. Stormwater at the site would be collected and run through a catch basin with an oil & gas separator, to a bioretention basin, and then to a proposed 18-inch storm drain that would connect to an existing stormwater drain in W. Atherton Drive.

Utilities

The Crossings site would tie into existing water, stormwater, sewer, gas, electrical, and telecommunications utilities located within Atherton drive. Stormwater from the site would connect to an existing 18-inch stormwater drain in W. Atherton Drive. The project also proposes tying a 6-inch sewer line into an existing 8-inch lateral sewer line, at a proposed manhole on the southern border of the project site off of W. Atherton Drive.

OFFSITE IMPROVEMENTS

Offsite improvements include the construction of two traffic signals and street median improvements at the intersections adjacent to the project site. The first traffic signal would be installed at the intersection of W. Atherton Drive and Langum Way. This traffic signal would control traffic coming in and out of the main driveway of the retail center. Street median improvements on W. Atherton Way include both raised and painted medians to guide traffic into appropriate turns lanes at the driveways and traffic signal. The improvements would occur along the project frontage of W. Atherton Drive.

A second traffic signal is proposed at the intersection of W. Atherton Drive and Airport Way. This signal would control the movements of cars at this existing four-way intersection that is currently controlled with stop signs. Both raised and painted medians are proposed within Airport Way to guide traffic coming southbound into the intersection and into the right-in and right-out project driveway on Airport Drive. The improvements would occur along the project frontage of Airport Drive.

All of the offsite improvements would occur within the existing roadway or existing Right-of-Way. No additional Right-of-Way is required for the offsite improvements.

SOURCE: ESRI, 2021

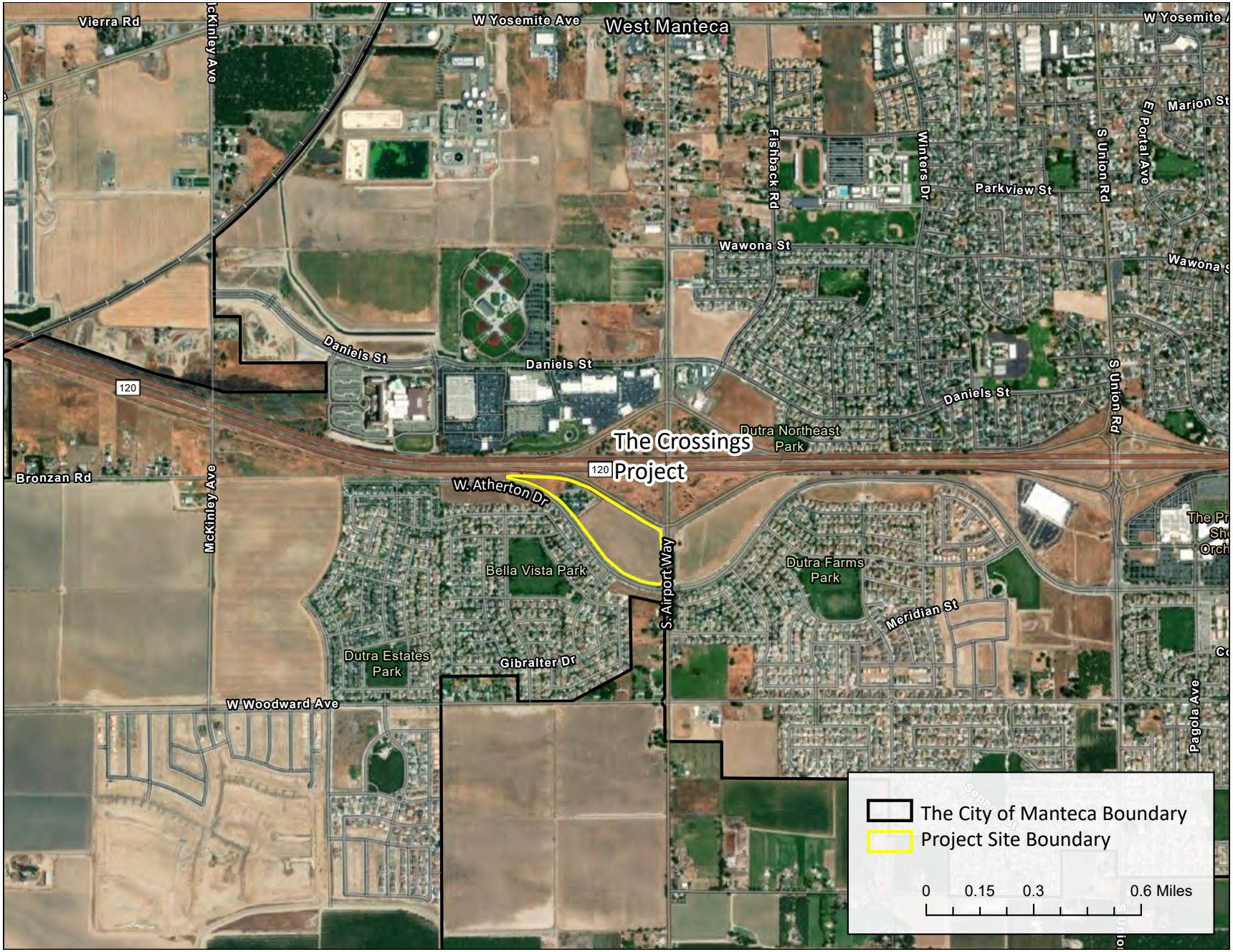
Figure 1 Regional Map

The Crossings

Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn



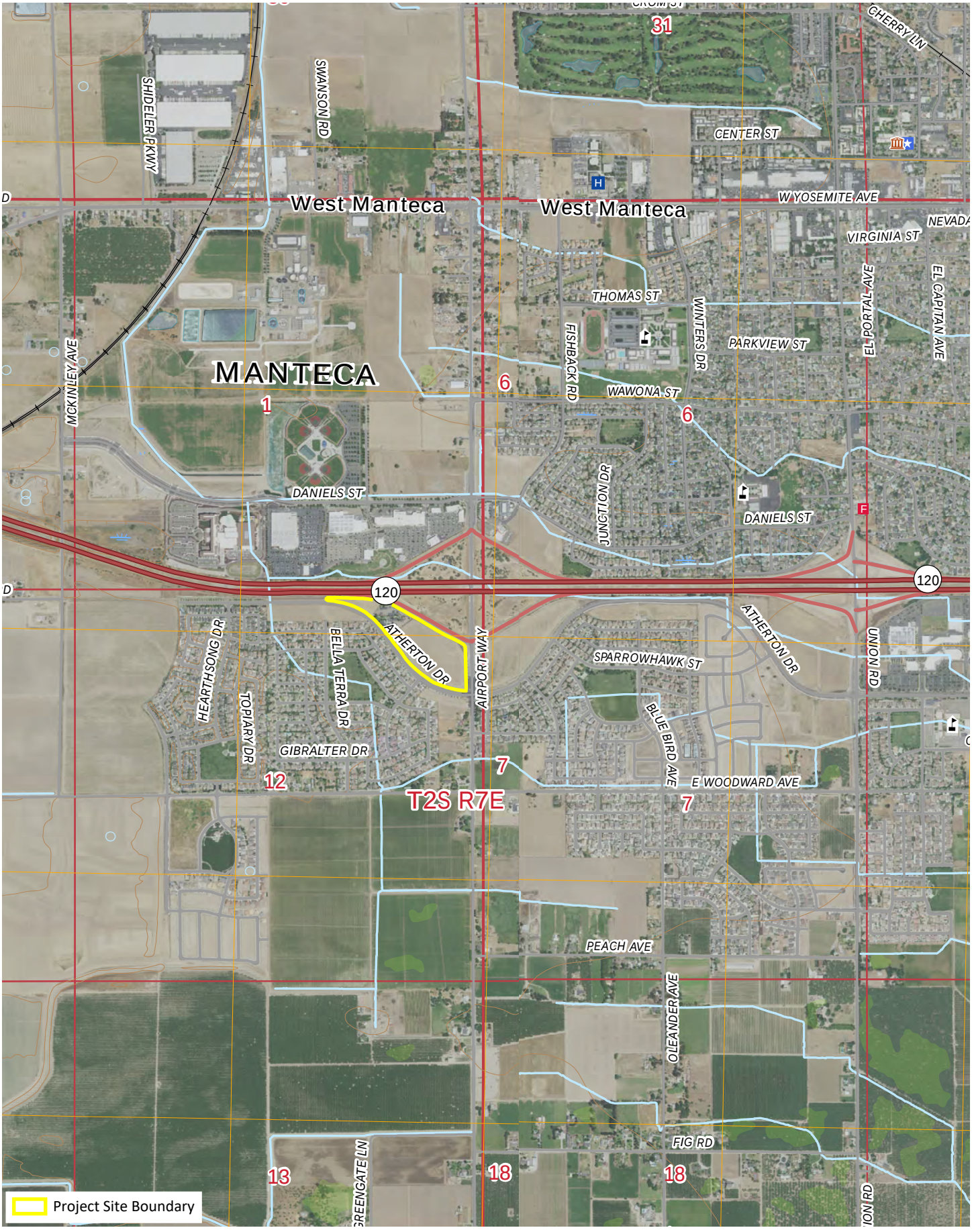
SOURCE: ESRI, 2021

Figure 2 Local Vicinity Map

The Crossings
Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn



SOURCE: USGS and USDOI, 7.5-Minute Series Lathrop and Manteca Quadrangle, 2021

Figure 3 USGS Topographic Map

The Crossings

Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn

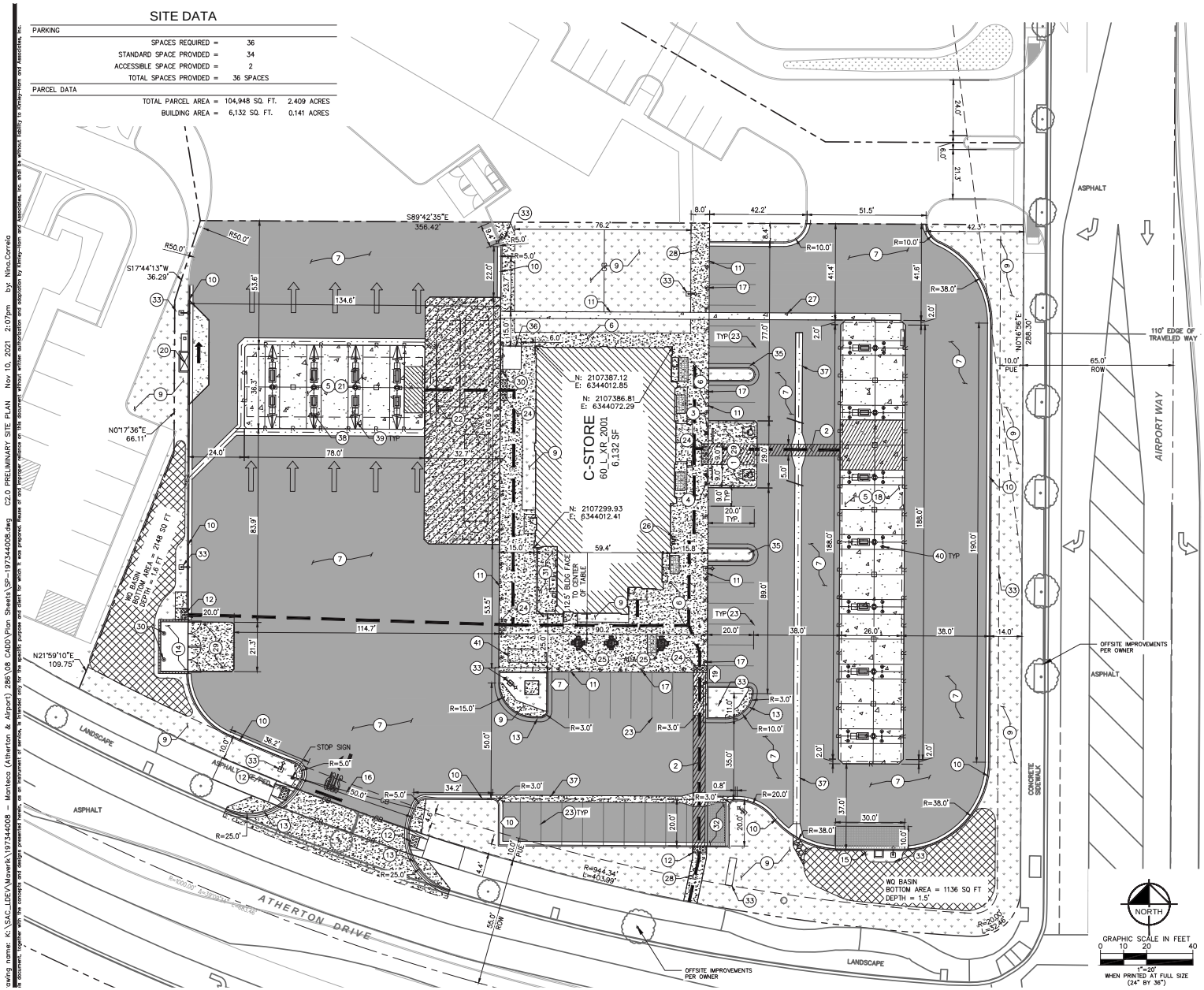
SOURCE: Reynolds and Brown, 2022

Figure 4 Site Plan

The Crossings
Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn



SOURCE: Kimley-Horn, 2021

Figure 5 Maverik Gas Station Site Plan

The Crossings

Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn

Source: Nearmap, 2022

Figure 6: Noise Measurement Locations

The Crossing
Initial Study/Mitigated Negative Declaration

Not to scale

Kimley»Horn

3.0 INITIAL STUDY CHECKLIST

NOTE: The following is a sample form that may be tailored to satisfy individual agencies' needs and project circumstances. It may be used to meet the requirements for an initial study when the criteria set forth in CEQA Guidelines have been met. Substantial evidence of potential impacts that are not listed on this form must also be considered. The sample questions in this form are intended to encourage thoughtful assessment of impacts, and do not necessarily represent thresholds of significance.

1. **Project title:**

   The Crossings Manteca Project

2. **Lead agency name and address:**

   The City of Manteca
   Development Services Department
   1215 W. Center St., Suite 201
   Manteca, California 95337

3. **Contact person and phone number:**

   Scott Speer, (209) 456.8565
   sspeer@ci.manteca.ca.us

4. **Project location:**

   2303 W Atherton Dr and 1527 S Airport Way
   Manteca, California 95337

5. **Project sponsor's name and address:**

   Maverik
   Christie Hutchings, AICP
   Sr. Planning Project Manager
   1885 South State Street, Suite 800
   Salt Lake City, Utah 84111

6. **General plan designation:**

   General Commercial (GC)

7. **Zoning:**

   General Commercial Zoning District (CG)

8. **Description of project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)**

   The Crossings project proposes a 17.6 acre mixed commercial use development, including retail stores, grocery, a gas station, auto-related services, restaurants (sit down and QSR's), coffee, hotel, etc. The project is currently vacant land with existing utility stubs provided on site, street lighting exists along Atherton Drive and Airport way, and existing curb, gutter, sidewalk exist and appear to be of adequate width along the frontage of the parcel. Additional site improvements include, but are not limited to grading, landscaping, hardscape, and irrigation. For more details, please see the detailed project description in Section 2.3 above.

9. **Surrounding land uses and setting: Briefly describe the project's surroundings:**

   The projects surroundings are generally designated as low density residential (LDR) in the General Land Use Plan to the immediate south and east, with General Commercial (GC) located northeast and northwest of the project site. The project is located just north of the city limits with land previously disturbed for agriculture use, further south outside of the city.

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)**

    City of Manteca

    - Adoption of the Initial Study/Mitigated Negative Declaration
    - Approval of Minor Use Permit, Site Plan/Design Review/Tentative Parcel Map
    - Grading and Improvement Plans
    - Building Permits

    San Joaquin Council of Governments

    - Approval of Incidental Take Mitigation Measures

    San Joaquin Valley Air Pollution Control District

    - Authority to Construct/Permit to Operate

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

    The California Native American Heritage Commission was notified of the project on November 15th, 2021 and has received no response.

NOTE: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21080.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

4.0 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact identified as "Less Than Significant With Mitigation Incorporated" as indicated by the checklist on the following pages.

- ☐ Aesthetics
- ☒ Air Quality
- ☐ Agricultural and Forestry Resources
- ☒ Biological Resources
- ☒ Cultural Resources
- ☐ Energy
- ☒ Geology/Soils
- ☐ Greenhouse Gas Emissions
- ☐ Hazards & Hazardous Materials
- ☒ Hydrology/Water Quality
- ☐ Land Use/Planning
- ☐ Mineral Resources
- ☐ Noise
- ☐ Population/Housing
- ☐ Public Services
- ☐ Recreation
- ☒ Transportation
- ☒ Tribal Cultural Resources
- ☐ Utilities/Service Systems
- ☐ Wildfire
- ☐ Mandatory Findings of Significance

DETERMINATION:

On the basis of this initial evaluation (check one):

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

CERTIFICATION:

Signature

6/28/22
Date

5.0 ENVIONRMENTAL ANALYSIS

5.1 AESTHETICS

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
AESTHETICS. Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?			**X**	
b) Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway?			**X**	
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			**X**	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			**X**	

a) Have a substantial adverse effect on a scenic vista?

Less Than Significant Impact. Under CEQA, a scenic vista is defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the public. A vista is a view from a particular location or combination of locations; a scenic vista combines an aesthetically pleasing aspect, often natural, to the vista. While a scenic vista may be formally designated, they are often informal public views. An adverse effect to a scenic vista may result from a degradation of an existing vista or the loss of access to an existing viewpoint.

As outlined in the FEIR General Plan, on clear days distant views of the Sierra Nevada Mountains to the east and The Coast Range from the west can be seen from the City of Manteca. Most days these views are obstructed due to weather conditions, and therefore the proposed project would only intermittently obstruct views on clear days. The Crossings project site is located in the southwest area within city boundaries. Locally, the Crossings project site is surrounded by agricultural fields to the south and the San Joaquin River to the west. The project would have a less than significant impact on views of the river, as the project lies on the same plane and is at a far enough distance where views would not be possible from the project site. The Crossings project

would fit in to the context of the existing development and not significantly alter the visual aesthetic of the surrounding area.

b) Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway?

Less than Significant Impact. The project site is located in a relatively flat area between SR 120, to the north, a residential neighborhood to the south, and a vacant previously disturbed lot to the east. This area does not contain any aesthetically significant trees, rock outcroppings, or historical buildings. Additionally, The Crossings project site is not located near a scenic highway, the site is located approximately 12.7 miles northeast from the nearest California Scenic Highway 580 (DOT, 2021) and therefore would cause a less than significant impact to scenic resources.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less Than Significant Impact. The project site is located in an urbanized area, and the project does not conflict with the General Commercial zoning district it falls within. This zoning district is described in the Cities Municipal Code as

"…provid[ing] for wholesale, warehousing, and heavy commercial uses, highway-oriented commercial retail, public and quasi-public uses, and similar and compatible uses. The designation is also intended to accommodate visitor lodging, commercial recreation and public gathering facilities, such as amphitheaters, or public gardens. It also allows most neighborhood and mixed commercial uses."

The specific project components would be required to determine allowable use and be required to obtain correct permitting and review prior to issuance of grading permits. The proposed uses including hotel, grocery, restaurants, and vehicle service stations are all allowed under this zoning district and fit in to the overall aesthetic landscape. The project would align with the General Plan's Circulation Goals to improve the aesthetic quality in the built environment by having curbside landscaping, proving sidewalks and bike lanes where space is available. The Crossing project site includes landscaping plans consistent City guidelines and includes maintaining landscaping and a sidewalk to meet General Plan Guidelines. The Crossing site also proposes adequate and attractive signage to update the area and alert the public to the commercial uses at the project site. The project would also comply with all additional federal, state, and local regulations governing scenic quality. Therefore, impacts are less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. Due to the nature of the Project, operational hours are anticipated to be 24 hours per day/7 days per week/ 365 days per year. Excessive or inappropriately directed

lighting can adversely impact nighttime views by reducing the ability to see the night sky and stars. Glare can be caused from unshielded or misdirected lighting sources. Reflective surfaces (i.e., polished metal) can also cause glare. Impacts associated with glare range from simple nuisance to potentially dangerous situations (i.e., if glare is directed into the eyes of motorists). Existing outdoor lighting at and near the project site is associated with commercial/retail, public/institutional, and street lighting typical of suburban areas. The proposed project would generate lighting from two primary sources: lighting from building interiors that would pass through windows, and lighting from exterior sources (e.g., street lighting, vehicles, security lighting, and landscape lighting). Lighting associated with the project would not be directed towards adjacent properties across Atherton Drive toward the residential community.

The City of Manteca's Municipal code Section 15.50.060 General Lighting Standards outlines outdoor lighting standards. This includes nuisance prevention which would require all lighting to be directed downward, toward structures, and shielded to prevent glare and light pollution, maintenance, shielding which would reduce light trespass, level of illumination, max height, energy efficient fixtures, etc. The project would adhere to these standards. Further, the City would also review new lighting for conformance with the 2019 California Green Building Standards Code (CALGreen) (California Code of Regulations [CCR] Title 24 Part 11) such that only the minimum amount of lighting is used, and no light spillage occurs. The Project would adhere to the City's Municipal Code, California's Green Buildings Standards Code, and all additional federal, state, or local regulations. Therefore, resulting in a less than significant impact concerning a new source of substantial light or glare.

Cumulative Impacts

The potential aesthetic impacts related to views, aesthetics, and light and glare are site-specific. As discussed above, project-related impacts to scenic vistas would be less than significant, and the proposed project would not result in any impacts to on-site visual resources because the project would retain and enhance the visual characteristic of the site. In addition, the proposed project would also be consistent and comply with the City's land use, scenic quality and development regulations contained in the City's Municipal Code and General Plan. Lighting and sources of glare, while not always site-specific, would be consistent with the majority of the surrounding urban area and would be used during similar hours as surrounding uses. Therefore, while the proposed project in conjunction with past, present, and reasonably foreseeable development would change the appearance of the site, all development projects follow applicable local planning and design guidelines regarding roadway design including materials, coloration, and landscaping as specified in the City's Municipal Code regarding lighting standards and limitation. Therefore, aesthetic impacts are not expected to be cumulatively considerable, and impacts would be less than significant.

5.2 AGRICULTURE AND FORESTRY RESOURCES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
AGRICULTURE AND FORESTRY RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?			**X**	
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?			**X**	
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?			**X**	
d) Result in the loss of forest land or conversion of forest land to non-forest use?			**X**	
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?			**X**	

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Less Than Significant Impact. The Project site is currently predominantly previously disturbed vacant land, excluding a portion of 2303 W Atherton Dr or APN 24132058, that is currently developed and under commercial use as Sterling Home Showcase. The project site is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance as shown

on the California Important Farmland Finder Map. Under the Farmland Mapping and Monitoring program the project site is designated Urban and Built-Up Land and therefore would have a less than significant impact.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

Less Than Significant Impact. Refer to a) The project site is not under a Williamson Act contract and does not have existing zoning for agricultural use. Therefore, the proposed project would have a less than significant impact to zoning for agricultural use or a Williamson Act Contract.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

Less Than Significant Impact. The project is not zoned as forest land, timberland, or timberland production and no land in the project vicinity is. Therefore, the project would not conflict or cause rezoning of any forest land (as defined in Public Resource Code section 12220(g)) timberland (as defined by Public Resources Code section 4526), or zoned Timberland Production (as defined by Government Code section 51104(g)). Therefore, impacts related to the loss of this agricultural resource are less than significant.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

Less Than Significant Impact. **Refer to c)**

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Less Than Significant Impact. **Refer to a) and c)**

Cumulative Impacts

The proposed Project would have no impact on agricultural and forestry resources since the surrounding uses are currently used for commercial, residential, public use, and industrial purposes. Therefore, the Project would not contribute to a cumulatively considerable impact to agriculture.

5.3 AIR QUALITY

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?			**X**	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			**X**	
c) Expose sensitive receptors to substantial pollutant concentrations?			**X**	
d) Result in other emissions (such as those leading to odors adversely affecting a substantial number of people?			**X**	

REGULATORY SETTING

Federal

Federal Clean Air Act

Air quality is federally protected by the Federal Clean Air Act (FCAA) and its amendments. Under the FCAA, the EPA developed the primary and secondary National Ambient Air Quality Standards (NAAQS) for the criteria air pollutants including ozone, NO_2, CO, SO_2, PM_{10}, $PM_{2.5}$, and lead. Depending on whether the standards are met or exceeded, the local air basin is classified as in "attainment" or "nonattainment." Some areas are unclassified, which means no monitoring data are available. Unclassified areas are considered to be in attainment. Proposed projects in or near nonattainment areas could be subject to more stringent air-permitting requirements. The FCAA requires that each state prepare a State Implementation Plan (SIP) to demonstrate how it will attain the NAAQS within the federally imposed deadlines.

The U.S. Environmental Protection Agency (EPA) has designated enforcement of air pollution control regulations to the individual states. Applicable federal standards are summarized in *Table 1: State and Federal Ambient Air Quality Standards*.

California Air Resources Board

CARB administers California's air quality policy. The California Ambient Air Quality Standards (CAAQS) were established in 1969 pursuant to the Mulford-Carrell Act. These standards, included with the NAAQS in *Table 1*, are generally more stringent and apply to more pollutants than the NAAQS. In addition to the criteria pollutants, CAAQS have been established for visibility reducing particulates, hydrogen sulfide, and sulfates. In general, the San Joaquin County experiences low concentrations of most pollutants when compared to federal standards, except for O_3 and PM, for which standards are exceeded periodically. San Joaquin County has a State designation Attainment or Unclassified for all criteria pollutants except for ozone, PM_{10} and $PM_{2.5}$. San Joaquin County has a national designation of either "Unclassified" or "Attainment" for all criteria pollutants except for Ozone and $PM_{2.5}$.

The California Clean Air Act (CCAA), which was approved in 1988, requires that each local air district prepare and maintain an Air Quality Management Plan (AQMP) to achieve compliance with CAAQS. These AQMPs also serve as the basis for the preparation of the SIP for meeting federal clean air standards for the State of California. Like the EPA, CARB also designates areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a state standard for the pollutant was violated at least once during the previous three calendar years. Exceedances that are affected by highly irregular or infrequent events such as wildfires, volcanoes, etc. are not considered violations of a State standard, and are not used as a basis for designating areas as nonattainment. The applicable State standards are summarized in *Table 1.*

Table 1: State and Federal Ambient Air Quality Standards

Pollutant	Averaging Time	State Standards[1]		Federal Standards[2]	
		Concentration	Attainment Status	Concentration[3]	Attainment Status
Ozone (O_3)	8 Hour	0.070 ppm (137 µg/m^3)	N[9]	0.070 ppm	N[4]
	1 Hour	0.09 ppm (180 µg/m^3)	N	NA	N/A[5]
Carbon Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m^3)	A	9 ppm (10 mg/m^3)	A[6]
	1 Hour	20 ppm (23 mg/m^3)	A	35 ppm (40 mg/m^3)	A
Nitrogen Dioxide (NO_2)	1 Hour	0.18 ppm (339 µg/m^3)	A	0.100 ppm[11]	U
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)	-	0.053 ppm (100 µg/m^3)	A
Sulfur Dioxide[12] (SO_2)	24 Hour	0.04 ppm (105 µg/m^3)	A	0.14 ppm (365 µg/m^3)	A
	1 Hour	0.25 ppm (655 µg/m^3)	A	0.075 ppm (196 µg/m^3)	A
	Annual Arithmetic Mean	NA	-	0.03 ppm (80 µg/m^3)	A
	24-Hour	50 µg/m^3	N	150 µg/m^3	-U

Particulate Matter (PM_{10})	Annual Arithmetic Mean	20 µg/m^3	N[7]	NA	-
Fine Particulate Matter ($PM_{2.5}$) [15]	24-Hour	NA	-	35 µg/m^3	U/A
	Annual Arithmetic Mean	12 µg/m^3	N[7]	12 µg/m^3	N
Sulfates (SO_{4-2})	24 Hour	25 µg/m^3	A	NA	-
Lead (Pb)[13, 14]	30-Day Average	1.5 µg/m^3	-	NA	A
	Calendar Quarter	NA	-	1.5 µg/m^3	A
	Rolling 3-Month Average	NA	-	0.15 µg/m^3	-
Hydrogen Sulfide (H_2S)	1 Hour	0.03 ppm (42 µg/m^3)	U	NA	-
Vinyl Chloride (C_2H_3Cl)	24 Hour	0.01 ppm (26 µg/m^3)	-	NA	-
Visibility Reducing Particles[8]	8 Hour (10:00 to 18:00 PST)	-	U	-	-

A = attainment; N = nonattainment; U = unclassified; N/A = not applicable or no applicable standard; ppm = parts per million; µg/m^3 = micrograms per cubic meter; mg/m^3 = milligrams per cubic meter; – = not indicated or no information available.

1. California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1-hour and 24-hour), nitrogen dioxide, suspended particulate matter - PM_{10}, and visibility reducing particles are values that are not to be exceeded. The standards for sulfates, Lake Tahoe carbon monoxide, lead, hydrogen sulfide, and vinyl chloride are not to be equaled or exceeded. If the standard is for a 1-hour, 8-hour or 24-hour average (i.e., all standards except for lead and the PM_{10} annual standard), then some measurements may be excluded. In particular, measurements are excluded that CARB determines would occur less than once per year on the average. The Lake Tahoe CO standard is 6.0 ppm, a level one-half the national standard and two-thirds the state standard.
2. National standards shown are the "primary standards" designed to protect public health. National standards other than for ozone, particulates and those based on annual averages are not to be exceeded more than once a year. The 1-hour ozone standard is attained if, during the most recent three-year period, the average number of days per year with maximum hourly concentrations above the standard is equal to or less than one. The 8-hour ozone standard is attained when the 3-year average of the 4th highest daily concentrations is 0.070 ppm (70 ppb) or less. The 24-hour PM_{10} standard is attained when the 3-year average of the 99th percentile of monitored concentrations is less than 150 µg/m_3. The 24-hour $PM_{2.5}$ standard is attained when the 3-year average of 98th percentiles is less than 35 µg/m^3.
   Except for the national particulate standards, annual standards are met if the annual average falls below the standard at every site. The national annual particulate standard for PM_{10} is met if the 3-year average falls below the standard at every site. The annual $PM_{2.5}$ standard is met if the 3-year average of annual averages spatially-averaged across officially designed clusters of sites falls below the standard.
3. National air quality standards are set by the EPA at levels determined to be protective of public health with an adequate margin of safety.
4. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm. An area will meet the standard if the fourth-highest maximum daily 8-hour ozone concentration per year, averaged over three years, is equal to or less than 0.070 ppm. EPA will make recommendations on attainment designations by October 1, 2016, and issue final designations October 1, 2017. Nonattainment areas will have until 2020 to late 2037 to meet the health standard, with attainment dates varying based on the ozone level in the area.
5. The national 1-hour ozone standard was revoked by U.S. EPA on June 15, 2005.
6. In April 1998, the Bay Area was redesignated to attainment for the national 8-hour carbon monoxide standard.
7 In June 2002, CARB established new annual standards for $PM_{2.5}$ and PM_{10}.
8 Statewide VRP Standard (except Lake Tahoe Air Basin): Particles in sufficient amount to produce an extinction coefficient of 0.23 per kilometer when the relative humidity is less than 70 percent. This standard is intended to limit the frequency and severity of visibility impairment due to regional haze and is equivalent to a 10-mile nominal visual range.
9. The 8-hour CA ozone standard was approved by the Air Resources Board on April 28, 2005 and became effective on May 17, 2006.

10. On January 9, 2013, EPA issued a final rule to determine that the Bay Area attains the 24-hour $PM_{2.5}$ national standard. This EPA rule suspends key SIP requirements as long as monitoring data continues to show that the Bay Area attains the standard. Despite this EPA action, the Bay Area will continue to be designated as "nonattainment" for the national 24-hour $PM_{2.5}$ standard until such time as the Air District submits a "redesignation request" and a "maintenance plan" to EPA, and EPA approves the proposed redesignation.
11. To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 0.100ppm (effective January 22, 2010). The US Environmental Protection Agency (EPA) expects to make a designation for the Bay Area by the end of 2017.
12. On June 2, 2010, the U.S. EPA established a new 1-hour SO_2 standard, effective August 23, 2010, which is based on the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations. The existing 0.030 ppm annual and 0.14 ppm 24-hour SO_2 NAAQS however must continue to be used until one year following U.S. EPA initial designations of the new 1-hour SO_2 NAAQS.
13. CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure below which there are no adverse health effects determined.
14. National lead standard, rolling 3-month average: final rule signed October 15, 2008. Final designations effective December 31, 2011.
15. In December 2012, EPA strengthened the annual $PM_{2.5}$ National Ambient Air Quality Standards (NAAQS) from 15.0 to 12.0 micrograms per cubic meter ($\mu g/m^3$). In December 2014, EPA issued final area designations for the 2012 primary annual $PM_{2.5}$ NAAQS. Areas designated "unclassifiable/attainment" must continue to take steps to prevent their air quality from deteriorating to unhealthy levels. The effective date of this standard is April 15, 2015.

Source: Bay Area Air Quality Management District, *Air Quality Standards and Attainment Status*, 2017 http://www.baaqmd.gov/research-and-data/air-quality-standards-and-attainment-status.

Regional

San Joaquin Valley Air Pollution Control District (SJVAPCD)

The proposed Project lies within the northern portion of the San Joaquin Valley Air Basin (SJVAB). The San Joaquin Valley Air Pollution Control District (SJVAPCD) has jurisdiction over most air quality matters in the SJVAB and is tasked with implementing programs and regulations required by the federal and State Clean Air Acts. If a project is found to interfere with the region's ability to comply with federal and State air quality standards, local governments then need to consider project modifications or provide mitigation measures to eliminate the inconsistency of the project plans. In order for a project to be considered "consistent" with the latest Air Quality Plan (AQP), the project must be consistent with the goals, objectives, and assumptions in the respective plan to achieve Federal and State air quality standards. Additionally, both construction-related and long-term emissions are required to be quantified and compared to the SJVAPCD significance thresholds.

Clean Air Plan

Air quality plans developed to meet federal requirements are referred to as State Implementation Plans. The federal and state Clean Air Acts require plans to be developed for areas designated as nonattainment (with the exception of areas designated as nonattainment for the state PM_{10} standard). The SJVAQMD is responsible for developing a Clean Air Plan, which guides the region's air quality planning efforts to attain the CAAQS. The SJVAQMD adopted the 2022 Ozone Plan and 2018 PM 2.5 Plan.

SJVAQMD periodically develops air quality plans that outline the regional strategy to improve air quality and protect the climate. The most recent plan, 2018 Plan for the 1997, 2006, and 2012 PM 2.5 Standards, includes a wide range of control measures designed to reduce emissions of air pollutants and GHGs.

Local

City of Manteca Municipal Code

Chapter 17.58 of the Manteca Municipal Code describes the odor, particulate matter, and air containment standards (consistent with the rules and regulations of the SJVAPCD and the California Health and Safety Code). Chapter 15.62 of the Municipal Code provides expedited permitting procedures for electric vehicle charging stations. Furthermore, Chapter 15.60 describes the solar energy system requirements associated with small residential rooftop solar energy systems within the City.

City of Manteca General Plan

The Manteca General Plan Update includes the following policies intended to control or reduce air pollution impacts:

AQ-P-1: Cooperate with other agencies to develop a consistent and coordinated approach to reduction of air pollution and management of hazardous air pollutants.

AQ-P-7: New construction will be managed to minimize fugitive dust and construction vehicle emissions.

AQ-P-9: Burning of any combustible material within the City will be controlled to minimize particulate air pollution.

AQ-I-1: Work with the San Joaquin Valley Air Pollution Control District (APCD) to implement the Air Quality Management Plan (AQMP).

- Cooperate with the APCD to develop consistent and accurate procedures for evaluating project-specific and cumulative air quality impacts.
- Cooperate with the APCD and the California Air Resources Board in their efforts to develop a local airshed model.
- Cooperate with the APCD in their efforts to develop a cost/benefit analysis of possible control strategies (mitigation measures to minimize short and long-term stationary and area source emissions as part of the development review process, and monitoring measures to ensure that mitigation measures are implemented.

AQ-I-2: In accordance with CEQA, submit development proposals to the APCD for review and comment prior to decision.

THRESHOLDS

The City of Manteca, including the project site, is located within the northern portion of the San Joaquin Valley Air Basin (Basin) and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAB area is currently designated as a non-attainment area for the State and federal ozone, State and federal particulate matter 2.5 microns in diameter (PM2.5), and State particulate matter 10 microns in diameter (PM10) standards. The SJVAB is designated attainment or

unclassified for all other ambient air quality standards (AAQS). It should be noted that although the U.S. Environmental Protection Agency (EPA) revoked their 1-hour ozone standard in 2005, in May of 2016, the EPA proposed findings that the SJVAB was in attainment of the 1-hour ozone standard.

In compliance with regulations, due to the non-attainment designations of the area, the SJVAPCD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The most recent ozone plan is the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard, which was adopted by the SJVAPCD on June 16, 2016. The California Air Resources Board (CARB) subsequently conducted a public meeting to consider approval of the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard and approved the plan on July 21, 2016. Additionally, the most recent federal attainment plan for PM is the 2016 Plan for the 1997 PM2.5 Standard, which was approved by the District Governing Board on April 16, 2015.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures (TCMs) to be implemented in the region to attain the State and federal standards within the SJVAB. Adopted SJVAPCD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated non-attainment, consistent with applicable air quality plans. The SJVAPCD has established broad significance thresholds associated with the construction and operation emissions for various criteria pollutants including ozone precursors such as reactive organic gases (ROG) and oxides of nitrogen (NOx), as well as for PM10, PM2.5, sulfur oxide (SOx), and carbon monoxide (CO) expressed in tons per year. Thus, by exceeding the SJVAPCD's mass emission thresholds for operational emissions of ROG, NOX, PM10, PM2.5, SOx, or CO a project would be considered to conflict with or obstruct implementation of the SJVAPCD's air quality planning efforts. The SJVAPCD's adopted thresholds of significance for criteria pollutant emissions are presented in *Table 2: SJVAPCD Criteria Pollutant Thresholds of Significance*. If the proposed project's emissions exceed the applicable thresholds of significance presented in the table, the project could violate an air quality standard, contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plans.

Table 2: SJVAPCD Criteria Pollutant Thresholds of Significance

Criteria Air Pollutants and Precursors (Regional)	Construction-Related	Operational-Related
	Average Annual Emissions (tons/year)	Annual Average Emission (tons/year)
Reactive Organic Gases (ROG)	10	10
Nitrogen Oxides (NO_X)	10	10
Carbon Monoxide (CO)	100	100
Sulfur Oxides (SO_X)	27	27
Coarse Particulates (PM_{10})	15	15
Fine Particulates ($PM_{2.5}$)	15	15
Source: SJVAPCD, March 19, 2015.		

ENVIRONMENTAL IMPACTS

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. The SJVAPCD is tasked with implementing programs and regulations required by the Federal Clean Air Act and the California Clean Air Act. In that capacity, the SJVAPCD has prepared plans to attain Federal and State ambient air quality standards. To achieve attainment with the standards, the SJVAPCD has established thresholds of significance for criteria pollutant emissions in their SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts (2015). Projects with emissions below the thresholds of significance for criteria pollutants would be determined to "Not conflict or obstruct implementation of the District's air quality plan". As discussed in Threshold AQ-2 below, the project would not exceed any SJVAPCD Criteria Pollutant Thresholds during construction or operations. Therefore, the project would not conflict with or delay the implementation of SJVAPCD attainment plans and would result in a less than significant impact.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact.

Construction Emissions

Project construction activities would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the project area include ozone-precursor pollutants (i.e., ROG and NO_x) and PM_{10} and $PM_{2.5}$. Construction-generated emissions are short term and temporary, lasting only while construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the SJVAPCD's thresholds of significance.

Construction results in the temporary generation of emissions during demolition, site preparation, site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities, as well as weather conditions and the appropriate application of water. For this project, site preparation includes the excavation and removal of previously identified contaminated soils.

The duration of construction activities associated with the project are estimated to last approximately 16 months, beginning in August 2022 and concluding at the end of December 2023. The project's construction-related emissions were calculated using the SJVAPCD-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. Project demolition and site preparation are anticipated to begin in August 2022 and last approximately one month. Project grading and

construction is anticipated to begin in September 2022 and last approximately 10 months. The project would include approximately 32,700 cubic yards (cy) of balanced cut and fill on site. Paving and Architectural Coating were modeled to be completed December 2023. The exact construction timeline is unknown; however, to be conservative, earlier dates were utilized in the modeling. This approach is conservative given that emissions factors decrease in future years due to regulatory and technological improvements and fleet turnover. See Appendix A: Air Quality Modeling Data for additional information regarding the construction assumptions used in this analysis. The project's predicted maximum daily construction-related emissions are summarized in *Table 3: Construction-Related Emissions*.

Table 3: Construction-Related Emissions

Construction Year	Pollutant (maximum tons per year)[1]					
	Reactive Organic Gases (ROG)	Nitrogen Oxides (NO_x)	Carbon Monoxide (CO)	Sulfur Oxides (SO_x)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
Project Emissions						
2022	0.17	1.61	1.36	0.00	0.23	0.13
2023	2.34	2.32	2.85	0.01	0.09	0.16
Maximum	**2.34**	**2.32**	**2.85**	**0.01**	**0.23**	**0.16**
SJVAPCD Significance Threshold [2]	*10*	*10*	*100*	*27*	*15*	*15*
Exceed BAAQMD Threshold?	No	No	No	No	No	No

1. These emissions reflect CalEEMod "mitigated" output, which accounts for compliance with SJVAPCD's Rule 9510 (Indirect Source Review) and implementation of the project's fugitive dust control strategies, including watering of the project site and unpaved roads three times per day, and restricting vehicle speed on unpaved roads to 15 miles per hour.
2. SJVAPCD, August 2015.

Source: Refer to the CalEEMod outputs provided in Appendix A.

Fugitive Dust Emissions. Fugitive dust emissions are associated with land clearing, ground excavation, cut-and-fill operations, demolition, and truck travel on unpaved roadways. Dust emissions also vary substantially from day to day, depending on the level of activity, the specific operations, and weather conditions. Fugitive dust emissions may have a substantial, temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the project vicinity. Uncontrolled dust from construction can become a nuisance and potential health hazard to those living and working nearby. Pursuant to Regulation VIII, Rule 9510, the project would be required to develop, prepare, submit, obtain approval of, and implement a dust control plan, which would reduce fugitive dust impacts to less than significant for project construction.

Construction Equipment and Worker Vehicle Exhaust. Exhaust emission factors for typical diesel-powered heavy equipment are based on the CalEEMod program defaults. Variables factored into

estimating the total construction emissions include: level of activity, length of construction period, number of pieces/types of equipment in use, site characteristics, weather conditions, number of construction personnel, and the amount of materials to be transported onsite or offsite. Exhaust emissions from construction activities include emissions associated with the transport of machinery and supplies to and from the project site, emissions produced on site as the equipment is used, and emissions from trucks transporting materials and workers to and from the site. Emitted pollutants would include ROG, NO_X, PM_{10}, and $PM_{2.5}$. As detailed in *Table 3,* project construction emissions would not the SJVAPCD thresholds and construction emissions would not result in a potentially significant impact. Therefore, construction air quality impacts would be less than significant.

ROG Emissions. In addition to gaseous and particulate emissions, the application of asphalt and surface coatings creates ROG emissions, which are O_3 precursors. In accordance with the methodology prescribed by the SJVAPCD, the ROG emissions associated with paving have been quantified with CalEEMod.

The highest concentration of ROG emissions would be generated from architectural coating beginning in September 2023 and lasting approximately four months. This phase includes the interior and exterior painting as well as striping of all paved parking areas and driveways. Paints would be required to comply with SJVAPCD's Rule 4601 (Architectural Coatings) and limit the amount of ROG emissions from cutback asphalt in compliance with the requirements of SJVAPCD's Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

Summary. As shown in *Table 3*, all criteria pollutant emissions would remain below their respective thresholds. As such, the proposed project's construction would not worsen ambient air quality, create additional violations of federal and state standards, or delay the Basin's goal for meeting attainment standards. Impacts would be less than significant.

Operational Emissions

Operational emissions for industrial developments are typically generated from mobile sources (burning of fossil fuels in cars); energy sources (cooling and heating); and area sources (landscape equipment and household products). *Table 4*: *Project Operational Emissions* shows that the project's maximum emissions would not exceed SJVAPCD operational thresholds.

Table 4: Project Operational Emissions

Emissions Source	Pollutant (maximum tons per year)[1]					
	Reactive Organic Gases (ROG)	Nitrogen Oxides (NO_X)	Carbon Monoxide (CO)	Sulfur Oxides (SO_x)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
Proposed Project						
Area	1.34	0.00	0.00	0.00	0.00	0.00
Energy	0.05	0.41	0.35	0.00	0.03	0.03

Emissions Source	Pollutant (maximum tons per year)[1]					
	Reactive Organic Gases (ROG)	**Nitrogen Oxides (NO_X)**	**Carbon Monoxide (CO)**	**Sulfur Oxides (SO_x)**	**Coarse Particulate Matter (PM_{10})**	**Fine Particulate Matter ($PM_{2.5}$)**
Mobile	4.13	4.68	28.55	0.05	4.82	1.32
Gas Dispensing Facility	4.15	0.00	0.00	0.00	0.00	0.00
Total Project Emissions	**9.67**	**5.09**	**28.90**	**0.05**	**4.85**	**1.35**
SJVAPCD Significance Threshold[2]	*10*	*10*	*100*	*27*	*15*	*15*
SJVAPCD Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
1. Emissions were calculated using CalEEMod. 3. SJVAPCD, *2015.*						
Source: Refer to the CalEEMod outputs provided in Appendix A, Air Quality Modeling Data.						

Area Source Emissions. Area source emissions would be generated due to the use consumer products, architectural coating, and landscaping.

Energy Source Emissions. Energy source emissions would be generated as a result of electricity and natural gas usage associated with the project. The primary use of electricity and natural gas by the project would be for space heating and cooling, water heating, ventilation, lighting, appliances, and electronics.

Mobile Source Emissions. Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, NO_X, PM_{10}, and $PM_{2.5}$ are all pollutants of regional concern (NO_X and ROG react with sunlight to form O_3 [photochemical smog], and wind currents readily transport PM_{10} and $PM_{2.5}$). However, CO tends to be a localized pollutant, dispersing rapidly at the source. Project-generated vehicle emissions have been estimated using CalEEMod. Trip generation rates associated with the project were based on the Project Transportation Analysis prepared by TJKM (2022). Based on the Transportation Analysis, the project would result in a gross total of 12,160 daily vehicle trips. However, with applicable trip reductions including location-based mode-share the project would result in 10,944 net new trips.

Gasoline Dispensing Facility. The proposed project includes one (1) 22-position gasoline dispensing facility (GDF) and GDFs are regulated by the SJVAPCD. Because GDFs require permits from the Air District, emissions attributed to the GDF were estimated separately from the area source operational emissions above. The emissions calculations are based on annual daily throughput of 19,008 gallons of gasoline (approximately 6.937 million gallons per year) and 43,712 gallons of diesel (approximately 15.945 million gallons per year). In addition to traffic-related emissions, the GDF is also a source of ROG emissions associated with loading, storage, refueling of vehicles and spillage that results in evaporative emissions. *Table 4* also presents the evaporative ROG emissions

associated with the proposed GDF. As shown in *Table 4*, the ROG emissions from the proposed GDF would not result in an exceedance of the SJVAPCD's applicable significance thresholds.

Total Operational Emissions. As seen in *Table 4*, net project operational emissions would not exceed SJVAPCD thresholds. As noted above, the SJVAPCD has set its CEQA significance threshold based on the trigger levels for the federal NSR Program. The NSR Program was created to ensure projects are consistent with attainment of health-based federal ambient air quality standards. The federal ambient air quality standards establish the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Therefore, the project would not violate any air quality standards or contribute substantially to an existing or projected air quality violation and no criteria pollutant health impacts would occur. Project operational emissions would be less than significant.

Emergency Backup Generators. Another potential source of operational emissions is stationary equipment such as diesel engines used to power emergency back-up generators. Stationary sources would be subject to SJVAPCD rules and regulations and could require permits from SJVAPCD. The SJVAPCD's permitting process requires the purchase of emission reduction credits (ERC) for any criteria pollutant exceeding the SJVAPCD's New Source Review (NSR) offset requirements. NSR offset requirements provide the basis for the SJVAPCD CEQA thresholds of significance. As such, sources of stationary air pollutant emissions will be required to comply with all applicable SJVAPCD regulations. Therefore, a less than significant impact would occur with regard to stationary equipment emissions.

Cumulative Short-Term Emissions

The SJVAB is designated nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards and nonattainment for O_3 and $PM_{2.5}$ for Federal standards. discussed above, the project's construction-related emissions would not have the potential to exceed the SJVAPCD significance thresholds for criteria pollutants.

Since these thresholds indicate whether an individual project's emissions have the potential to affect cumulative regional air quality, it can be expected that the project-related construction emissions would not be cumulatively considerable. The SJVAPCD recommends consistency Regulation VIII for all projects whether or not construction-related emissions exceed the thresholds of significance. Compliance with SJVAPCD construction-related mitigation requirements is considered to reduce cumulative impacts at a Basin-wide level. As a result, construction emissions associated with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

Cumulative Long-Term Impacts

The SJVAPCD has not established separate significance thresholds for cumulative operational emissions. The nature of air emissions is largely a cumulative impact. As a result, no single project

is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. The SJVAPCD developed the operational thresholds of significance based on the level above which a project's individual emissions would result in a cumulatively considerable contribution to the Basin's existing air quality conditions. Therefore, a project that exceeds the SJVAPCD operational thresholds would also be a cumulatively considerable contribution to a significant cumulative impact.[1]

As shown in *Table 4*, the project's operational emissions would not exceed SJVAPCD thresholds. As a result, operational emissions associated with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Sensitive land uses are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers. The nearest sensitive receptors to the project site include single-family residences approximately 100 feet to the west along Atherton Drive.

Construction Toxic Air Contaminants

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust which is a known Toxic Air Contaminants (TAC). Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. However, the use of diesel-powered construction equipment would be episodic and would occur in various phases throughout the project site. Construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Division 3, Article 1, Chapter 10, Sections 2485 and 2449), which reduce DPM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. These regulations would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions.

The duration of construction activities for the project is estimated to take approximately 16 months. Construction-related activities would result in project-generated emissions of DPM from the exhaust of off-road, heavy-duty diesel equipment for demolition, site preparation (e.g., clearing, grading); paving; application of architectural coatings; on-road truck travel; and other miscellaneous activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. The nearest sensitive receptors include single-family residences located approximately 100 feet to the west of the project site.

[1] In developing thresholds of significance for air pollutants, BAAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions (BAAQMD CEQA Guidelines page 2-1).

PM_{10} construction emissions rates in grams per second were calculated from the total annual mitigated on-site exhaust emissions reported in CalEEMod (a maximum of 0.07 tons per year)[2] during construction. Annual emissions were converted to grams per second and these emissions rates were input into the U.S. EPA AERMOD dispersion model. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources (not a factor in this case). AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Surface and upper air meteorological data was provided by the SJVAPCD. On-site construction emissions were represented in the model via an area source covering the entire project site. The locations of the AERMOD modeled sources and receptors are graphically shown in Appendix B.

As noted above, maximum (worst case) PM_{10} exhaust construction emissions over the entire construction period were used in AERMOD to approximate construction DPM emissions. Risk levels were calculated based on the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, Air Toxics Hot Spots Program Risk Assessment Guidelines (February 2015). Results of this assessment are summarized in *Table 5: Construction Risk Assessment Results*.

Table 5: Construction Risk Assessment Results

Exposure Scenario	Pollutant Concentration ($\mu g/m^3$)[1]	Maximum Cancer Risk (Risk per Million)	Chronic Noncancer Hazard	Acute Noncancer Hazard
Construction	0.03	11.12	0.006	0.8
SJVAPCD Threshold	*N/A*	*20*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**	**No**	**No**
Notes: 1. The maximum concentration for residential uses approximately 100 feet to the west is reported.				
Source: Refer to Appendix A: Air Quality Modeling Data for AERMOD inputs, outputs, and risk calculations.				

Results of this assessment indicate that the maximum concentration of PM_{10} during construction would be 0.03 $\mu g/m^3$ and resultant cancer risk of 11.12 in one million, which would not exceed the SJVAPCD threshold of 20 in one million. Non-cancer hazards for DPM would be below SJVAPCD threshold of 1.0, with a chronic hazard index computed at 0.006 and an acute hazard index of 0.8. Additionally, construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Sections 2485 and 2449), which reduce diesel PM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. These regulations would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Given the temporary and intermittent nature of construction activities likely to occur within specific locations in the project site (i.e., construction is not likely to occur in any one location for an extended time), the dose of DPM of any one receptor is exposed to would be limited. A less than significant impact would occur in this regard.

[2] The modeled on- and off-site emissions include implementation of SJVAPCD Regulation VIII, Fugitive Dust.

Operational Toxic Air Contaminants

According to the *Manteca Retail Site Preliminary Traffic Study* (TJKM, February 22, 2022) (Project Traffic Study) prepared of the project, the project is anticipated to generate approximately 10,944 net daily vehicle trips, including heavy truck trips to the proposed grocery store and gas station and would be the most prominent sources of DPM during project operations. As shown in *Table 6: Operational Risk Assessment Results*, the highest calculated carcinogenic risk resulting from the project is 16.44 per million residents, which is below the SJVAPCD threshold of 20 per million. Acute and chronic hazards also would be below the SJVAPCD significance threshold of 1.0. Operational impacts from DPM would be less than significant.

Table 6: Operational Risk Assessment Results

Exposure Scenario	Pollutant Concentration ($\mu g/m^3$)[1]	Maximum Cancer Risk (Risk per Million)	Chronic Noncancer Hazard	Acute Noncancer Hazard
Particulate Matter (PM_{10})	0.019	16.44	0.004	0.11
Threshold	*20*	*20*	*1.0*	*1.0*
Exceed Threshold?	**No**	**No**	**No**	**No**
1. The maximum concentration for residential uses approximately 100 feet to the west is reported.				
Source: Refer to Appendix A: Air Quality Modeling Data for AERMOD inputs, outputs, and risk calculations.				

Carbon Monoxide Hotspots

The primary mobile-source criteria pollutant of local concern is carbon monoxide. Concentrations of CO are a direct function of the number of vehicles, length of delay, and traffic flow conditions. Transport of this criteria pollutant is extremely limited; CO disperses rapidly with distance from the source under normal meteorological conditions. Under certain meteorological conditions, however, CO concentrations close to congested intersections that experience high levels of traffic and elevated background concentrations may reach unhealthy levels, affecting nearby sensitive receptors. Areas of high CO concentrations, or "hot spots," are typically associated with intersections that are projected to operate at unacceptable levels of service during the peak commute hours. CO concentration modeling is therefore typically conducted for intersections that are projected to operate at unacceptable levels of service during peak commute hours.

Although the SJVAPCD has not established a specific numerical screening threshold for CO impacts, the Bay Area Air Quality Management District (BAAQMD) has established that CO impacts may be determined to be less than significant if a project would not increase traffic volumes at local intersections to more than 44,000 vehicles per hour, or 24,000 vehicles per hour for locations in heavily urban areas, where "urban canyons" formed by buildings tend to reduce air circulation. Traffic would increase along surrounding roadways during long-term operational activities.

According to the Project Traffic Study (2022), the project would generate approximately 10,944 net new daily trips. The project's effects to existing vehicle distribution and travel speeds would be nominal. Therefore, the project would not involve intersections with more than 24,000 or 44,000 vehicles per hour. As a result, the project would not have the potential to create a CO hotspot and impacts would be less than significant.

d) Result in other emissions (such as those leading to odors adversely affecting a substantial number of people?

Less Than Significant Impact.

Construction

According to the SJVAPCD, land uses associated with odor complaints typically include wastewater treatment plants, landfills, confined animal facilities, composting stations, food manufacturing plants, refineries, and chemical plants. The project does not include any uses identified by the SJVAPCD as being associated with odors.

Construction activities associated with the project may generate detectable odors from heavy duty equipment (i.e., diesel exhaust), as well as from architectural coatings and asphalt off-gassing. Odors generated from the referenced sources are common in the man-made environment and are not known to be substantially offensive to adjacent receptors. Any construction-related odors would be short-term in nature and cease upon project completion. As a result, impacts to existing adjacent land uses from construction-related odors would be short-term in duration and therefore would be less than significant.

Operational

The proposed project is not anticipated to generate odors. Moreover, the project is not located in the vicinity of any existing or planned land uses that would be considered major sources of odors. Nonetheless, the project would be subject to the SJVAPCD's Rule 4102, which allows members of the public to submit complaints regarding odor. Impacts would be less than significant.

Cumulative Impacts

The SJVAPCD does not include separate significance thresholds for cumulative operational emissions. As discussed in Threshold AQ-2 above, the project would not exceed the any SJVAPCD Criteria Pollutant Thresholds during construction or operations. Therefore, the project would not conflict with or delay the implementation of SJVAPCD attainment plans and would result in a less than significant threshold. The SJVACPD notes that the nature of air emissions is largely a cumulative impact. As a result, no single project is sufficient in size by itself to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. Consistency with the SJVAPCD control measures would ensure that the project would not cumulatively contribute to air quality impacts in the Basin. Therefore, the project's cumulative contribution of air quality emissions would be less than significant, and the project's cumulative air quality impacts would also be less than cumulatively considerable.

5.4 BIOLOGICAL RESOURCES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
BIOLOGICAL RESOURCES. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		**X**		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?			**X**	
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological?			**X**	
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		**X**		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			**X**	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?		**X**		

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Less Than Significant With Mitigation Incorporated. Special-status species includes plant and/or wildlife species that are legally protected under the federal Endangered Species Act, the California Endangered Species Act, or other regulations, or are considered rare enough by the scientific community and trustee agencies to warrant special consideration.

The project is in an urban area with substantial existing development. This includes SR 120 to the north, residential uses south, and additional commercial uses in the local vicinity. In addition, a portion of the site has exiting development and the remaining areas have been previously disturbed with no native vegetation. Therefore, the site is not expected to support substantial plant and wildlife beyond what currently exists. A previous biological survey preformed on the project site in conjunction with the San Joaquin Council of Governments (SJCOG) identified potential impacts on Swainson's Hawk, western burrowing owl, and other migratory birds (See Appendix C for the SJCOG's Advisory Statements on the project sites San Joaquin County Multispecies Habitat Conservation & Open Space Plan conditions (SJMSCP)). Due to lack of suitable habitat, no special-status plant species are expected to occur. While The Crossings area may have provided habitat for special-status wildlife species at some time in the past, historical farming and urban development have substantially modified natural habitats in the greater project vicinity. Nonetheless the project site contains potentially suitable habitat for both Swainson's Hawk and burrowing owl; therefore, the project could have potentially significant impacts on these species.

The project site has been determined by the SJCOG to fall within a Category A – No Pay Zone, which exempts the project from paying SJMSCP fees. The project site falls under this category because it is classified as Urban Habitat by the SJCOG and the conversion of open space has already occurred. Although the project would not be required to pay SJMSCP fees, the project would need to participate in the SJMSCP, as required by City policy and specified in the mitigation measure below. See Appendix D for the Certificate of Payment for The Crossings Project site. The SJMSCP contains Incidental Take Minimization Measures (ITMMs) for both Swainson's Hawk and burrowing owl. Implementation of Mitigation Measure BIO-1 would reduce project impacts on special-status species to a level that would be less than significant.

MM BIO-1: The developer shall mitigate for the proportionate loss of potential wildlife habitat from the project site by applying for coverage and implementing Incidental Take Minimization Measures (ITMMs) as required by the adopted San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP).

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

Less than Significant Impact. As there are no streams on or near the project site, there is no riparian habitat. Additionally, the US Fish and Wildlife Service did not identify any other sensitive natural communities on the National Wetlands Mapper Inventory. The project would have a less than significant impact on these habitats.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological?

Less Than Significant Impact. As identified from the US Fish and Wildlife National Wetlands Mapper, there are no identified state or federally protected wetlands mapped within The Crossings project site. Therefore, there is a less than significant impact.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less Than Significant With Mitigation Incorporated. As noted, there are no streams on or near the project site. The project site is not a known wildlife migration corridor and is unlikely to be one, given its location amid urban development. However, the project site contains trees around the perimeter of the site and within the previously developed portion of the site, that could be used by raptors and other migratory birds during their nesting seasons. If these trees are removed during nesting seasons for these birds, this could have a direct, adverse impact. However, with the implementation of MM BIO-2, impacts would be reduced to a level that would be less than significant.

MM BIO-2: In the event trees need to be removed or trimmed to facilitate the project, they should be felled or trimmed outside of the general bird nesting season (February 1 through August 31). If not, the developer shall have a nesting bird survey conducted immediately prior to tree trimming or removal. If active nests are found, tree felling, or trimming shall be delayed until the young have fledged.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant Impact. Potentially applicable local requirements are the City's Street Tree Ordinance and the Street Tree Plan. There are trees within the public right-of-way, located along the perimeter of the project site. The treatment of these tress would comply with the City of Manteca's Tree and Shrub Ordinance, located in Chapter 12.08 of the Municipal Code. Any existing trees removed within the public right of way, would be replaced on-site within an approved landscape plan, that is consistence with the City's tree replacement and removal schedule, as

shown in Chapter 17.48.060.D. Therefore, the project would have a less than significant impact on local biological requirements.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Less Than Significant With Mitigation Incorporated. The San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) is a multi-species, multi-habitat, multi-purpose open space management program for all of San Joaquin County. The Manteca City Council adopted the SJMSCP (Resolution #R2001-46) on February 5, 2001, signing a Joint Powers Agreement with other City, County, State, and Federal agencies. The SJMSCP is a 50-year Plan (2001 – 2051) that provides compensation for the conversion of open space to non-open space uses which affect the plant, fish, and wildlife species covered by the Plan. The Plan also includes some compensation to offset the impacts of open space conversions on non-wildlife related resources such as recreation, agriculture, scenic values, and other beneficial open space. The SJMSCP provides three compensation methods: preservation of existing sensitive lands, creation of new comparable habitat on the project site, or payment of fees that would be used to secure preserve lands outside the project site. In addition to fee payments, the SJMSCP identifies and requires the applicants to abide by Incidental Take Minimization Measures (ITMMs), which are protection measures that avoid direct impacts of development on special-status species (SJCOG 2000). The SJCOG implements the SJMSCP on a project-by-project basis. The City of Lathrop is a participant in the SJMSCP. As previously mentioned, the project site is within Category A – No Pay Zone, which exempts the project from SJMSCP fees.

As discussion in Impact a) above, the project would implement MM BIO-1, which would require compliance with the SJMSCP, including implementation of any applicable Incidental Take Minimization Measures. No other habitat conservation plans apply to the project site and the project would not conflict with the SJMSCP with the implementation of MM BIO-1.

Cumulative Impacts

Overall, the project is a previously disturbed with existing development located within an urban environment. To the north of the site is SR 120 and to the south is residential uses. The surrounding area has been historically modified from agricultural uses and then further commercial development. Therefore, the development of The Crossings project site would not be cumulatively considerable. In addition, the site in not located within a known habitat corridor and does not contain any riparian habitat, federally protected wetlands, or other sensitive natural communities. Though the project is located within the SJMSCP, it would comply with all policies, fees, and mitigation measures associated. Therefore, overall, with the above mentioned implementation the project would have a less than significant impact on biological resources.

5.5 CULTURAL RESOURCES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?			**X**	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?		**X**		
c) Disturb any human remains, including those interred outside of dedicated cemeteries?			**X**	

a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?

Less Than Significant Impact. A Cultural Resources Study for The Crossings Project site was conducted by Rincon Consultants, Inc. on February 2022 (Appendix E). Historical resources findings were supported by CHRIS records search, background research, a review of historical topographic and aerial imagery, a Sacred Land File Search, and a pedestrian survey. From the CHRIS records search of the 34 resources within 1-mile, none were recorded within the project site. One resource was located adjacent to the project site running along Airport Way. However, the resource is a transmission line and is ineligible for listing in the NRHP and CRHR as it has been deemed insignificant. In addition to this, 29 cultural resource studies were found within 1 mile of the project site. Of these, two included a portion of the project site. Neither of the studies identified any cultural resources on site. They both listed the closest cultural resources being the Rustic School, 0.80 miles south, and a historic-age farmhouse, 1 mile southeast. From the review of historical topographic maps, several livestock/farming buildings were located along Airport Way through the 1980's. The pedestrian survey conducted, confirmed no remnants of these buildings remained. Additional findings were seven concrete structures presumable related to irrigation activities. These structures, according to the FHWA Section 10 Programmatic Agreement, are not considered a significant resource. The structures were not found to have any historical significance, and therefore fall under Property Type 1, Minor, ubiquitous or fragmentary infrastructure elements and would not be significant. Overall, there were no historical cultural resources identified on the project site and therefore the project would have a less than significant impact.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

Less Than Significant With Mitigation Incorporated. As indicated above there were no archaeological resources found on-site, this is substantiated through a CHRIS records search, background research, review of historical topographic and aerial imagery, a Sacred Land File Search, and a pedestrian survey. However, the absence of substantial surface prehistoric or historic-period archeological remains within the project vicinity and the existing level of disturbance does not preclude the possibility of subsurface resources. Though the circumstances would present a low possibility, the following mitigation measure (MM) would reduce impacts in the unanticipated discovery of archaeological resources during construction. With the implementation of MM CUL-1 and MM CUL-2, impacts would be less than significant.

MM CUL-1 Prior to the issuance of any grading permits for the proposed Project, the project applicant shall demonstrate that a qualified archaeologist has been retained to monitor and observe rough grading and trenching activities. If potentially significant archaeological resources are encountered during subsurface excavation activities, all construction activities within a 100-foot radius of the resource shall cease until a qualified archaeologist determines whether the resource requires further study. The City shall require that the applicant include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. Any previously undiscovered resources found during construction shall be recorded on appropriate Department of Parks and Recreation forms and evaluated for significance in terms of California Environmental Quality Act criteria by a qualified archaeologist. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. If the resource is determined to be significant under CEQA, the City and a qualified archaeologist shall determine whether preservation in place is feasible. Such preservation in place is the preferred mitigation. If such preservation is infeasible, the qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan for the resource. The archaeologist shall also conduct appropriate technical analyses, prepare a comprehensive written report and file it with the appropriate information center (California Historical Resources Information System), and provide for the permanent curation of the recovered materials.

MM CUL-2: Prior to the issuance of any grading permits for the proposed Project, a Cultural Awareness Training Program shall be provided to all construction managers and construction personnel prior to commencing any ground disturbance work at any of the project sites. The training shall be prepared and conducted by a qualified archaeologist to the satisfaction of the City Planning Department. The training may be discontinued when ground disturbance is completed. Construction personnel shall not be permitted to operate equipment within the construction area unless they have attended the training. A copy of the training materials and/or training video, as well as a list of the names of all personnel who attended the training and copies of the signed acknowledgment forms shall be submitted to the City Planning Department for their review and approval.

c) Disturb any human remains, including those interred outside of dedicated cemeteries?

Less Than Significant Impact. No human remains are known to be present within the project site. If human remains are found, those remains would require proper treatment in accordance with applicable laws, including Health and Safety Code (HSC) §§ 7050.5-7055 and PRC § 5097.98 and § 5097.99. HSC §§ 7050.5-7055 describe the general provisions for treatment of human remains. Specifically, HSC § 7050.5 prescribes the requirements for the treatment of any human remains that are accidentally discovered during excavation of a site. HSC § 7050.5 also requires that all activities cease immediately, and a qualified archaeologist and Native American monitor be contacted immediately. As required by state law, the procedures set forth in PRC § 5097.98 would be implemented, including evaluation by the County Coroner and notification of the NAHC. The NAHC would then designate the "Most Likely Descendent" of the unearthed human remains. If human remains are found during excavation, excavation would be halted in the vicinity of the discovery and any area that is reasonably suspected to overlay adjacent remains shall remain undisturbed until the County Coroner has investigated, and appropriate recommendations have been made for the treatment and disposition of the remains. Compliance with the established regulatory framework (i.e., HSC § 7050.5-7055 and PRC §§ 5097.98 and 5097.99) would ensure potential Project impacts concerning human remains are reduced to less than significant

Cumulative Impacts

Overall, the project would not cause a considerable impact to historical cultural resources, archaeological cultural resources, or human remains. Due to the project location and previously disturbed project site ground, and the addition of the above listed mitigation measures the proposed project would not cause a cumulatively considerable impact to occur.

5.6 ENERGY

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
ENERGY. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			**X**	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			**X**	

REGULATORY SETTING

State

Renewable Energy Standards

In 2002, California established its Renewable Portfolio Standard program12F3 with the goal of increasing the annual percentage of renewable energy in the state's electricity mix by the equivalent of at least 1 percent of sales, with an aggregate total of 20 percent by 2017. The California Public Utilities Commission subsequently accelerated that goal to 2010 for retail sellers of electricity (Public Utilities Code Section 399.15(b)(1)). Then-Governor Schwarzenegger signed Executive Order S-14-08 in 2008, increasing the target to 33 percent renewable energy by 2020. In September 2009, then-Governor Schwarzenegger continued California's commitment to the Renewable Portfolio Standard by signing Executive Order S-21-09, which directs the California Air Resources Board under its AB 32 authority to enact regulations to help the State meet its Renewable Portfolio Standard goal of 33 percent renewable energy by 2020. In September 2010, the California Air Resources Board adopted its Renewable Electricity Standard regulations, which require all of the State's load-serving entities to meet this target. In October 2015, then-Governor Brown signed into legislation Senate Bill 350, which requires retail sellers and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 revised the goal of the program to achieve the 50 percent renewable resources target by December 31, 2026, and to achieve a 60 percent target by December 31, 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

[3] The Renewable Portfolio Standard is a flexible, market-driven policy to ensure that the public benefits of wind, solar, biomass, and geothermal energy continue to be realized as electricity markets become more competitive. The policy ensures that a minimum amount of renewable energy is included in the portfolio of electricity resources serving a state or country.

California 2007 Energy Action Plan Update

The 2007 Energy Action Plan II is the State's principal energy planning and policy document. The plan describes a coordinated implementation strategy to ensure that California's energy resources are adequate, affordable, technologically advanced, and environmentally sound. In accordance with this plan, the state and its electricity providers would invest first in energy efficiency and demand-side resources, followed by renewable resources, and only then in clean conventional electricity supply to meet its energy needs.

Building Codes

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission) in June 1977 and are updated every three years (Title 24, Part 6, of the California Code of Regulations). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. On May 9, 2018, the CEC adopted the 2019 Building Energy Efficiency Standards, which took effect on January 1, 2020.

The current 2019 Standards improve upon the previous 2016 Standards. Under the 2019 Title 24 standards, residential buildings are about 7 percent more energy efficient, and when the required rooftop solar is factored in for low-rise residential construction, residential buildings that meet 2019 Title 24 standards would use about 53 percent less energy than those built to meet current standards.

California Green Building Standards Code

The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, is a statewide mandatory construction code that was developed and adopted by the California Building Standards Commission and the California Department of Housing and Community Development. CALGreen standards require new residential and commercial buildings to comply with mandatory measures under five topical areas: planning and design; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality. CALGreen also provides voluntary measures (CALGreen Tier 1 and Tier 2) that local governments may adopt which encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code was adopted in 2019 and went into effect January 1, 2020.

2006 Appliance Efficiency Regulations

The California Energy Commission adopted Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608) on October 11, 2006. The regulations were approved by the California Office of Administrative Law on December 14, 2006. The regulations include standards for both Federally regulated appliances and non-Federally regulated appliances. While these regulations are now often viewed as "business-as-usual," they exceed the standards imposed by all other states and they reduce GHG emissions by reducing energy demand.

California Utility Efficiency Programs (Senate Bill 1037 and Assembly Bill 2021)

SB 1037 and AB 2021 require electric utilities to meet their resource needs first with energy efficiency. California Utility Efficiency Programs have also set new targets for statewide annual energy demand reductions.

Regional and Local

City of Manteca General Plan

The City of Manteca General Plan includes policies applicable to all development projects in Manteca. The following policies are specific to energy use and energy efficiency and applicable to the project.

Policy AQ-P-10 Encourage energy efficient building designs

Policy AQ-1-15 Design review criteria shall include the following considerations, at a minimum:

- The developer of a sensitive air pollution receptor shall submit documentation that the project design includes appropriate buffering (e.g., setbacks, landscaping) to separate the use from highways, arterial streets, hazardous material locations and other sources of air pollution or odor.
- Promote the use of new and replacement fuel storage tanks at refueling stations that are clean fuel compatible, if technically and economically feasible.
- The use of energy efficient lighting (including controls) and process systems beyond Title 24 requirements shall be encouraged where practicable (e.g., water heating, furnaces, boiler units, etc.)
- The use of energy efficient automated controls for air conditioning beyond Title 24 requirements shall be encouraged where practicable.
- Promote solar access through building siting to maximize natural heating and cooling, and landscaping to aid passive cooling and to protect from winds.

ENVIRONMENTAL IMPACTS

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact.

Construction

The energy consumption associated with construction of the proposed project includes primarily diesel fuel consumption from on-road hauling trips and off-road construction diesel equipment, and gasoline consumption from on-road worker commute and vendor trips. Temporary electric power for as-necessary lighting and electronic equipment (such as computers inside temporary construction trailers, and heating, ventilation, and air conditioning) would be powered by a generator. The amount of electricity used during construction would be minimal; typical demand

would stem from the use of electrically powered hand tools and several construction trailers by managerial staff during the hours of construction activities. The majority of the energy used during construction would be from petroleum. This analysis relies on the construction equipment list and operational characteristics, as provided in the CalEEMod outputs for the project; see Appendix F. *Table 7: Project Energy Consumption During Construction* quantifies the construction energy consumption are provided for the project, followed by an analysis of impacts based on those quantifications.

Table 7: Project Energy Consumption During Construction

Source	Project Construction Usage	San Joaquin County Annual Energy Consumption	Percentage Increase Countywide
Electricity Use	**Megawatt Hours (MWh)**		
Water Consumption	44.39	5,736,910	0.0008%
Diesel Use	**Gallons**		
On-Road Construction Trips [1]	25,123	98,195,375.73	0.03%
Off-Road Construction Equipment [2]	49,163	98,195,375.73	0.05%
Construction Diesel Total	***74,286***	***98,195,375.73***	***0.08%***
Gasoline	**Gallons**		
On-Road Construction Trips [1]	24,471	287,745,040	0.03%

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod and fleet-average fuel consumption in gallons per mile from EMFAC2021 in San Joaquin County for construction year 2022.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (hp)-hour from USEPA.

Abbreviations:
CalEEMod: California Emission Estimation Model; EMFAC: Emission Factor Model 2021;
Sources: Energy Calculations in Appendix F

In total, construction of the project would consume approximately 44 megawatt hours (MWh) of electricity, 74,286 gallons of diesel and 24,471 gallons of gasoline. Water for project construction would represent 0.0008 percent of the County's water consumption. The project's fuel from the entire construction period would increase fuel use in the County by approximately 0.08 percent for diesel and 0.03 percent for gasoline.

There are no unusual project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or state. In addition, some incidental energy conservation would occur during construction through compliance with State requirements that equipment not in use for more than five minutes be turned off. Project construction equipment would also be required to comply with the latest EPA and CARB engine emissions standards. These engines use highly efficient combustion engines to minimize unnecessary fuel consumption.

The CEQA Guideline Appendix G and Appendix F criteria requires the project's effects on local and regional energy supplies and on the requirements for additional capacity to be addressed. A 0.08 percent increase in construction fuel demand is not anticipated to trigger the need for additional capacity. Fuel consumption is based on a conservative construction phasing and conservative estimates for annual construction fuel consumption. Longer phases would result in lower construction intensity and a lower annual fuel consumption, resulting in lower annual demand on energy supplies. Additionally, use of construction fuel would cease once the project is fully developed. As such, project construction would have a nominal effect on the local and regional energy supplies. Therefore, it is expected that construction fuel consumption associated with the project would not be inefficient, wasteful, or unnecessary. The project would not substantially affect existing energy or fuel supplies, or resources and new capacity would not be required. Impacts would be less than significant in this regard.

Operations

The energy consumption associated with the project would include building electricity, water, and natural gas usage, as well as fuel usage from on-road vehicles. Quantification of operational energy consumption are provided for the project in *Table 8: Annual Energy Consumption During Operations*. Operation of uses implemented pursuant to the proposed project would annually consume approximately 4,162 MWh of electricity, 83,884 therms of natural gas, 652,465 gallons of diesel, and 350,525 gallons of gasoline.

Table 8: Annual Energy Consumption During Operations

Source	Project Operational Usage	San Joaquin County Annual Energy Consumption	Percentage Increase Countywide
Electricity Use	**Megawatt Hour/Year (MWh/year)**		
Area [1]	4,087	5,736,910	0.071%
Water[1]	75		0.001%
Total Electricity	4,162		0.072%
Natural Gas Use	**Therms/year**		
Area [1]	83,884	183,949,868	0.046%
Diesel Use	**Gallons/Year**		
Mobile [2]	652,465	98,291,520	0.663%
Gasoline Use	**Gallons/Year**		
Mobile [2]	350,525	284,968,748	0.123%

Notes:
1. The electricity and natural gas usage are based on project-specific estimates and CalEEMod defaults.
2. Calculated based on the mobile source fuel use based on vehicle miles traveled (VMT) and fleet-average fuel consumption (in gallons per mile) from EMFAC2021 for operational year 2023.

Abbreviations: CalEEMod: California Emission Estimation Model; EMFAC2021: California Air Resources Board Emission Factor Model; MWh: Megawatt-hour

Source: Energy Calculations in Appendix F

Pacific Gas and Electric (PG&E) provides electricity to the project area. Electricity is currently used by the existing building on the project site. However, for a more conservative approach the project energy analysis does not take credit for baseline use. The project site is expected to continue to be served by the existing PG&E electrical facilities. Total electricity demand in PG&E's service area is forecast to increase by approximately 12,000 GWh—or 12 billion kWh—between 2016 and 2028.[4] The project's anticipated electricity demand (approximately 4,162 MWh) would be nominal compared to overall demand in PG&E's service area.5 Therefore, the projected electrical demand would not significantly impact PG&E's level of service.

Regarding natural gas, San Joaquin County consumed 183,949,868 therms of natural gas in 2020. Therefore, the project's operational energy consumption of natural gas (83,884 therms/year) would represent 0.05 percent of the natural gas consumption in the County.

In 2023, Californians are anticipated to use approximately 14,997,128,554 gallons of gasoline and approximately 3,709,759,962 gallons of diesel fuel. San Joaquin County annual gasoline fuel use in 2023 is anticipated to be 593,638,414 gallons and diesel fuel is anticipated to be 103,305,684 gallons. Expected project operational use of gasoline and diesel would represent 0.002 percent of current gasoline use and 0.018 percent of current diesel use in the state. Project operational use of gasoline and diesel would represent 0.12 percent of gasoline use and 0.66 percent of diesel use in the County.

The project would be consistent with the 2019 Building Efficiency Standards, which took effect on January 1, 2020, and/or future Building Energy Efficiency Standards depending on when construction permits are issued. Prior to issuance of a building permit, the City of Manteca would review and verify that the project plans demonstrate compliance with the current version of the Building and Energy Efficiency Standards. Title 24 standards require energy conservation features in new construction (e.g., high- efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures).

Additionally, the project would also be required adhere to the provisions of CALGreen, which establishes planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The insulation and design code requirements would minimize wasteful energy consumption.

None of the project energy uses exceed one percent of San Joaquin County use. Therefore, it is expected that operational fuel and energy consumption associated with the project would not be inefficient, wasteful, or unnecessary. Impacts would be less than significant in this regard.

[4] California Energy Commission, California Energy Demand 2018-2030 Revised Forecast, Figure 49 Historical and Projected Baseline Consumption PG&E Planning Area, April 2018.

[5] The energy analysis does not take credit for baseline use for a more conservative approach.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact. The project would be required to comply with existing regulations, including applicable measures from the City's General Plan, or would be directly affected by the outcomes (vehicle trips and energy consumption would be less carbon intensive due to statewide compliance with future low carbon fuel standard amendments and increasingly stringent Renewable Portfolio Standards). As such, the project would not conflict with any other state-level regulations pertaining to energy. The project would comply with existing State energy standards and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

Cumulative Impacts

As discussed above, it is expected that construction fuel consumption associated with the project would not be inefficient, wasteful, or unnecessary. The project would not substantially affect existing energy or fuel supplies, or resources and new capacity would not be required. Additionally, the project would also be required adhere to the provisions of CALGreen, which establishes planning and design standards for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The insulation and design code requirements would minimize wasteful energy consumption. As discussed above, none of the project energy uses exceed one percent of San Joaquin County use and it is expected that operational fuel and energy consumption associated with the project would not be inefficient, wasteful, or unnecessary. Therefore, the project's cumulative contribution of energy use would be less than significant, and the project's cumulative energy impacts would also be less than cumulatively considerable.

5.7 GEOLOGY AND SOILS

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
7. GEOLOGY AND SOILS. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			**X**	
ii) Strong seismic ground shaking?		**X**		
iii) Seismic-related ground failure, including liquefaction?		**X**		
iv) Landslides?			**X**	
b) Result in substantial soil erosion or the loss of topsoil?		**X**		
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		**X**		
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?		**X**		
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?			**X**	
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		**X**		

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less Than Significant Impact. The closest known fault to the project site is the Vernalis Fault located approximately 6 miles southeast. There are no earthquake fault zone boundaries or County designated fault zones identified at the Project site or within the city of Manteca. The Seismic Hazards Mapping Act, passed in 1990, requires mapping of seismic hazard zones and sets requirements for projects located within such zones. The project site is not within a seismic hazard zone map prepared under the Seismic Hazards Mapping Act (California Geological Survey 2021). Based on this information, the project would have no impact related to fault rupture hazards. This is consistent with the conclusions of the North Crossroads IS/MND, which did not identify significant impacts on this issue. Overall, impacts associated with the rupture of a known earthquake fault would be less than significant.

ii) Strong seismic ground shaking?

Less Than Significant With Mitigation Incorporated. The Project site, located in the Central Valley has a low shaking potential (DOC, 2016b). Design and construction would still comply with the latest 2019 California Building Code (CBC), City regulations, and other applicable state standards which would minimize the potential of strong seismic ground shaking impacts. The CBC provides procedures for earthquake-resistant structural design based on the buildings risk or seismic design category that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. Compliance with the CBC and the below outlined mitigation measure would ensure seismic group shaking impacts would be at a less than significant level. Mitigation Measure MM GEO-1 would require the project applicant to submit design level geotechnical study to the City of Manteca for review. Therefore, with the Project conforming to the latest CBC Building Codes and MM GEO-1, impacts due to strong seismic ground shaking would be less than significant.

MM GEO-1: Prior to issuance of building permits, the project applicant shall submit a design-level geotechnical study and building plans to the City of Manteca for review and approval. The building plans shall demonstrate that they incorporate all applicable recommendations of the design-level geotechnical study and comply with all applicable requirements of the most recent version of the California Building Standards Code. A licensed professional engineer shall prepare the plans, including those that pertain to soil engineering, structural foundations, pipeline excavation, and installation. The approved plans shall be incorporated into the proposed project. All onsite soil engineering activities shall be conducted under the supervision of a licensed Geotechnical Engineer or Certified Engineering Geologist.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant with Mitigation Incorporated. Seismically induced liquefaction occurs when loose, water-saturated sediments of relatively low density are subjected to cyclic shaking that causes soils to lose strength or stiffness because of increased pore water pressure. The project does not fall within any liquefaction zones identified in the Seismic Hazards Map by the California Geological Survey (DOC, 2017). Additionally, the project does not fall within or near an Alquist-Priolo Fault Hazard Zone, Landslide Zone, or Liquefaction Zone as designated on the Department of Conservations (DOC) map viewer (DOC, 2022). As the project site is not designated within one of the above zones and all structures included in the project would be required by State law to be constructed in accordance with all applicable IBC and CBC earthquake construction standards, including those relating to soil characteristics, and adherence to MM GEO-1. The potential for substantial adverse effects to the project due to seismic-related ground failure, including liquefaction would therefore be less than significant.

iv) Landslides?

Less Than Significant Impact. The project site is located in a generally flat area and does not contain any steep slopes that could result in landslides on or in the vicinity of the project site. Also identified in the Seismic hazards Map by the California Geological Survey, there are no landslide zone boundaries that fall within the project site (DOC, 2017). The project would also conform with all applicable General Plan policies and additional federal, state, and local regulations. Therefore, impacts associated with landslides would be less than significant.

b) Result in substantial soil erosion or the loss of topsoil?

Less Than Significant With Mitigation Incorporated. According to the project site plans prepared for the proposed project, development of the proposed project would result in the creation of new impervious surface areas throughout the project site. The development of the project site would also cause ground disturbance of topsoil. The ground disturbance would be limited to the areas proposed for grading and excavation, including the proposed internal roadways and drain infrastructure improvements. After grading and excavation, and prior to overlaying the disturbed ground surfaces with impervious surfaces and structures, the potential exists for wind and water erosion to occur, which could adversely affect downstream storm drainage facilities.

Without implementation of appropriate Best Management Practices (BMPs) related to prevention of soil erosion during construction, development of the project would result in a potentially significant impact with respect to soil erosion. Mitigation Measure HYD-1 requires the project applicant to prepare and submit a Stormwater Pollution Prevention Plan identifying specific actions and BMPs to prevent stormwater pollution during construction activities. The SWPPP shall include, among other things, temporary erosion control measures to be employed for disturbed areas. Implementation of the following mitigation measure, therefore, would ensure the impact is less than significant.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less Than Significant With Mitigation Incorporated. The project site and surround areas are generally flat, which is not anticipated to result in significant landslides. As previously mentioned, there are no active faults, Seismic Hazard Program Liquefaction Zones, or Alquist-Priolo Fault Hazard Zones on the project site. Therefore, the potential for lateral spreading, subsidence, liquefaction, or collapse is unlikely. Subsidence is one factor that can cause unstable soil. To further prevent the above adverse effects all project components would be constructed in accordance with applicable City goals and policies, as well as Codes established by the CBC. All construction plans and related geotechnical plans and studies would be reviewed by the Town further ensuring compliance with all building construction standards. Compliance with all construction standards would reduce the potential for an off-site landslide, lateral spreading, subsidence, liquefaction or collapse and reduce the impacts to a less than significant level. In addition, the project applicant would be required to submit a geotechnical investigation report to the Town as part of MM GEO-1. As a result, with implementation of MM GEO-1 and the SWPPP, impacts associated would be less than significant.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less Than Significant With Mitigation Incorporated. Expansive soils are those that undergo volume changes as moisture content fluctuates; swelling substantially when wet or shrinking when dry. Soil expansion can damage structures by cracking foundations, causing settlement and distorting structural elements. Expansion is a typical characteristic of clay-type soils. Expansive soils shrink and swell in volume during changes in moisture content, such as a result of seasonal rain events, and can cause damage to foundations, concrete slabs, roadway improvements, and pavement sections. Soil expansion is dependent on many factors. The more clayey, critically expansive surface soil and fill materials would be subjected to volume changes during seasonal fluctuations in moisture content. There are no expansive (i.e., shrink-swell) soils within the project site. According to the USDA Web Soil survey, the project site contains 79.5% veritas fine sandy loam in the southeast portion of the site, and 20.5% bisgani loamy coarse sand in the northwest portion (USDA, 2021). Given the soils identified on site, adherence to applicable Federal, State, and Local rules and regulations, and compliance with MM GEO-1 impacts would be less than significant.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Less Than Significant Impact. The Project site would tie into existing 8-inch lateral sewer line within the public right of way. Therefore, the project would not involve a septic system and there would be a less than significant impact from incompatible soils.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant With Mitigation Incorporated. There are no known paleontological resources located in project area. However, development of the proposed project could result in the discovery and disturbance of previously unknown or undiscovered paleontological resources. While fossils are not expected to be discovered during construction, it is possible that significant fossils could be discovered during excavation activities, even in areas with a low likelihood of occurrence. Fossils encountered during excavation could be inadvertently damaged. If a unique paleontological resource is discovered, the impact to the resource could be substantial. MM GEO-3 would require that a qualified paleontologist monitor grading and excavation activities, and a paleontologist be notified if paleontological resources are found. If any scientifically important large fossil remains are uncovered, the paleontologist would have the authority to divert heavy equipment away from the fossil site. With implementation of MM GEO-3 and consistency with City ordinances, policies and goals, impacts associated with paleontological resources would be less than significant.

MM GEO-3: Paleontological Monitor. Prior to issuance of improvement plans, the City shall ensure that a qualified paleontologist shall be retained to prepare a Paleontological Resources Monitoring and Mitigation Plan (PRMMP). This plan will address specifics of monitoring and mitigation and comply with the recommendations of the Society of Vertebrate Paleontology's 2010 Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources. All ground disturbances in the project area that occur in previously undisturbed sediment with high paleontological sensitivity will require monitoring. The Project Paleontologist may periodically inspect construction activities to adjust the level of monitoring in response to subsurface conditions. In the event that any potentially significant paleontological resources are discovered, the paleontological monitor shall stop work inside a zone designated by him/her where additional paleontological resources could be found. A plan for the evaluation of the resource shall be submitted to the Community Development Director for approval.

Cumulative Impacts

Geology and soil-related impacts are generally site-specific and are determined by a particular site's soil characteristics, topography, and proposed land uses. Cumulative effects related to geology resulting from the implementation of proposed improvements of the site and surrounding areas could expose more persons and property to potential impacts due to seismic activity. Long-term impacts related to geology include the exposure of people to the potential for seismically induced ground shaking. Implementation of other cumulative projects would incrementally increase the number of people and structures subject to a seismic event. Seismic and geologic significance would be considered on a project-by-project basis through the preparation of a design-level geotechnical study and such exposures would be minimized through strict engineering guidelines as they pertain to protection against known geologic hazards and potential geologic and soil related impacts. The proposed project would not contribute to any cumulatively considerable geologic and/or soils impacts. Therefore, cumulative effects of increased seismic risk would be less than significant.

5.8 GREENHOUSE GAS EMISSIONS

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
GREENHOUSE GAS EMISSIONS. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			**X**	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			**X**	

REGULATORY SETTING

Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

Energy Independence and Security Act of 2007. The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

U.S. Environmental Protection Agency Endangerment Finding. The U.S. Environmental Protection Agency's (EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the EPA finalized an

endangerment finding in December 2009. Based on scientific evidence, it found that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing FCAA and the EPA's assessment of the scientific evidence that form the basis for the EPA's regulatory actions.

Federal Vehicle Standards. In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021, and NHTSA intends to set standards for model years 2022–2025 in a future rulemaking. On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks. It should be noted that the EPA is currently proposing to freeze the vehicle fuel efficiency standards at their planned 2020 level (37 mpg), canceling any future strengthening (currently 54.5 mpg by 2026).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baseline.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program.

In 2018, the EPA stated their intent to halt various Federal regulatory activities to reduce GHG emissions, including the phase two program. California and other states have stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures and have committed to cooperating with other countries to implement global climate change initiatives. On September 27, 2019, the EPA and the NHTSA published the "Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program." (84 Fed. Reg. 51,310 (Sept. 27, 2019.) The Part One Rule revokes California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the EPA and NHTSA finalized rulemaking for SAFE Part Two sets CO_2

emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021-2026.

State

California Air Resources Board

The California Air Resources Board (CARB) is responsible for the coordination and oversight of State and local air pollution control programs in California. Various statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of CO_2e in the world and produced 440 million gross metric tons of CO_2e in 2015. In the state, the transportation sector is the largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation, such as the landmark AB 32 California Global Warming Solutions Act of 2006, was specifically enacted to address GHG emissions. Other legislation, such as Title 24 building efficiency standards and Title 20 appliance energy standards, were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major legislation related to GHG emissions reduction.

Assembly Bill 32 (California Global Warming Solutions Act of 2006). AB 32 instructs the CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

CARB Scoping Plan. CARB adopted the Scoping Plan to achieve the goals of AB 32. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business-as-usual"). The Scoping Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the state's Climate Action Team, identifies additional measures to be pursued as regulations, and outlines the adopted role of a cap-and-trade program. Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key elements of the Scoping Plan include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions (adopted in 2011).

- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets (several sustainable community strategies have been adopted).
- Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of California's long-term commitment to AB 32 implementation.

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated considering current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 million metric tons of CO_2e ($MMTCO_2e$) to 545 $MMTCO_2e$. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7 percent, down from 29 percent. CARB also provided a lower 2020 inventory forecast that incorporated state-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16 percent.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32. By 2016, California had reduced GHG emissions below 1990 levels, achieving AB 32's 2020 goal four years ahead of schedule.

In January 2017, CARB released the 2017 Climate Change Scoping Plan Update (Second Update) for public review and comment (CARB, 2017). The Second Update sets forth CARB's strategy for achieving the state's 2030 GHG target as established in Senate Bill (SB) 32 (discussed below). The Second Update was approved by CARB's Governing Board on December 14, 2017.

Senate Bill 32 (California Global Warming Solutions Act of 2006: Emissions Limit. Signed into law in September 2016, SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40 percent below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions.

With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017, CARB adopted a second update to the Scoping Plan (CARB, 2017b). The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017

Scoping Plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support the Clean Power Plan and other Federal actions.

SB 375 (The Sustainable Communities and Climate Protection Act of 2008). Signed into law on September 30, 2008, SB 375 provides a process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction goals established by AB 32. SB 375 requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, aligns planning for transportation and housing, and creates specified incentives for the implementation of the strategies. The applicable sustainable community strategy in the Bay Area is Plan Bay Area 2040.

AB 1493 (Pavley Regulations and Fuel Efficiency Standards). AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the by the U.S. District Court for the District of Columbia in 2011. The regulations establish one set of emission standards for model years 2009–2016 and a second set of emissions standards for model years 2017 to 2025. By 2025, when all rules will be fully implemented, new automobiles will emit 34 percent fewer CO_2e emissions and 75 percent fewer smog-forming emissions.

SB 1368 (Emission Performance Standards). SB 1368 is the companion bill of AB 32, which directs the California Public Utilities Commission (CPUC) to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 limits carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the state. The CPUC adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, for 1,100 pounds of CO_2 per megawatt-hour.

SB 1078 and SBX1-2 (Renewable Electricity Standards). SB 1078 required California to generate 20 percent of its electricity from renewable energy by 2017. This goal was accelerated with SB 107, which changed the due date to 2010 instead of 2017. On November 17, 2008, Executive Order S-14-08 established a Renewable Portfolio Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Executive Order S-21-09 also directed CARB to adopt a regulation by July 31, 2010, requiring the state's load serving entities to meet a 33 percent renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23. SB X1-2 codified the 33 percent by 2020 goal.

SB 350 (Clean Energy and Pollution Reduction Act of 2015). Signed into law on October 7, 2015, SB 350 implements the goals of Executive Order B-30-15. The objectives of SB 350 are to increase the procurement of electricity from renewable sources from 33 percent to 50 percent (with interim targets of 40 percent by 2024, and 45 percent by 2027) and to double the energy efficiency savings in electricity and natural gas end uses of retail customers through energy efficiency and conservation. SB 350 also reorganizes the Independent System Operator to develop more regional electricity transmission markets

and improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

AB 398 (Market-Based Compliance Mechanisms). Signed on July 25, 2017, AB 398 extended the duration of the Cap-and-Trade program from 2020 to 2030. AB 398 required CARB to update the Scoping Plan and for all GHG rules and regulations adopted by the State. It also designated CARB as the statewide regulatory body responsible for ensuring that California meets its statewide carbon pollution reduction targets, while retaining local air districts' responsibility and authority to curb toxic air contaminants and criteria pollutants from local sources that severely impact public health. AB 398 also decreased free carbon allowances over 40 percent by 2030 and prioritized Cap-and-Trade spending to various programs including reducing diesel emissions in impacted communities.

SB 150 (Regional Transportation Plans). Signed on October 10, 2017, SB 150 aligns local and regional GHG reduction targets with State targets (i.e., 40 percent below their 1990 levels by 2030). SB 150 creates a process to include communities in discussions on how to monitor their regions' progress on meeting these goals. The bill also requires the CARB to regularly report on that progress, as well as on the successes and the challenges regions experience associated with achieving their targets. SB 150 provides for accounting of climate change efforts and GHG reductions and identify effective reduction strategies.

SB 100 (California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases). Signed into Law in September 2018, SB 100 increased California's renewable electricity portfolio from 50 to 60 percent by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs using executive orders. Although not regulatory, they set the state's tone and guide the actions of state agencies.

Executive Order S-3-05. Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets:

- By 2010, reduce greenhouse gas emissions to 2000 levels.
- By 2020, reduce greenhouse gas emissions to 1990 levels.
- By 2050, reduce greenhouse gas emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07. Issued on January 18, 2007, Executive Order S-01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. The executive order established a Low Carbon Fuel Standard (LCFS) and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission, CARB, the University of California, and other agencies to develop and propose protocols for

measuring the “life-cycle carbon intensity” of transportation fuels. CARB adopted the LCFS on April 23, 2009

Executive Order S-13-08. Issued on November 14, 2008, Executive Order S-13-08 facilitated the California Natural Resources Agency development of the 2009 California Climate Adaptation Strategy. Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order S-14-08. Issued on November 17, 2008, Executive Order S-14-08 expands the state’s Renewable Energy Standard to 33 percent renewable power by 2020. Additionally, Executive Order S- 21- 09 (signed on September 15, 2009) directs CARB to adopt regulations requiring 33 percent of electricity sold in the state come from renewable energy by 2020. CARB adopted the Renewable Electricity Standard on September 23, 2010, which requires 33 percent renewable energy by 2020 for most publicly owned electricity retailers.

Executive Order S-21-09. Issued on July 17, 2009, Executive Order S-21-09 directs CARB to adopt regulations to increase California's Renewable Portfolio Standard (RPS) to 33 percent by 2020. This builds upon SB 1078 (2002), which established the California RPS program, requiring 20 percent renewable energy by 2017, and SB 107 (2006), which advanced the 20 percent deadline to 2010, a goal which was expanded to 33 percent by 2020 in the 2005 Energy Action Plan II.

Executive Order B-30-15. Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40 percent below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of CO_2e ($MMTCO_2e$). The 2030 target acts as an interim goal on the way to achieving reductions of 80 percent below 1990 levels by 2050, a goal set by Executive Order S-3-05. The executive order also requires the state’s climate adaptation plan to be updated every three years and for the state to continue its climate change research program, among other provisions. With the enactment of SB 32 in 2016, the Legislature codified the goal of reducing GHG emissions by 2030 to 40 percent below 1990 levels.

Executive Order B-55-18. Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant state agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires state agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California’s energy consumption relatively flat, even with rapid population growth.

Title 20 Appliance Efficiency Regulations. The appliance efficiency regulations (California Code of Regulations [CCR] Title 20, Sections 1601-1608) include standards for new appliances. Twenty-three categories of appliances are included in the scope of these regulations. These standards include

minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy-and water-efficient appliances.

Title 24 Building Energy Efficiency Standards. California's Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR Title 24, Part 6) was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2016 Building Energy Efficiency Standards approved on January 19, 2016 went into effect on January 1, 2017. The 2019 Building Energy Efficiency Standards were adopted on May 9, 2018 and took effect on January 1, 2020. Under the 2019 standards, residential dwellings are required to use approximately 53 percent less energy and nonresidential buildings are required to use approximately 30 percent less energy than buildings under the 2016 standards.

Title 24 California Green Building Standards Code. The California Green Building Standards Code (CCR Title 24, Part 11 code) commonly referred to as CALGreen, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and nonresidential buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The latest CALGreen Code took effect on January 1, 2020 (2019 CALGreen). The 2019 CALGreen standards will continue to improve upon the existing standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The new 2019 CALGreen standards require residential buildings are required to be solar ready through solar panels (refer to Section 110.10 in the 2019 Building Energy Efficiency Standards for more details).

Regional

San Joaquin Valley Air Basin Air Quality Management District Thresholds

The proposed Project lies within the northern portion of the San Joaquin Valley Air Basin (SJVAB). The San Joaquin Valley Air Pollution Control District (SJVAPCD) has jurisdiction over most air quality matters in the SJVAB and is tasked with implementing programs and regulations required by the federal and State Clean Air Acts. According to the SJVAPCD, impacts are less than significant if a project complies with adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions.

Under CEQA, the SJVAPCD is a commenting responsible agency on air quality within its jurisdiction or impacting its jurisdiction. The SJVAPCD reviews projects to ensure that they would: (1) support the primary goals of the latest Air Quality Plan; (2) include applicable control measures from the Air Quality Plan; and (3) not disrupt or hinder implementation of any Air Quality Plan control measures.

Local

City of Manteca Climate Action Plan

The City of Manteca Climate Action Plan (CAP), approved in 2013, focuses on City operations, facilities and employee actions that will reduce not only GHG emissions but also energy and water consumption, solid waste and fuel consumption. The GHG emission reduction goals require a change from "business as usual" to attain them. The CAP outlines the goal of reducing per capita emissions from 6.9 per person in 2005 to 6.3 in 2035. CAP is being issued in the context of legislative and regulatory action at the federal and state level. California's climate change goals are set forth in AB 32, the Global Warming Solutions Act of 2006. This legislation requires a reduction of California GHG emissions to 1990 levels by 2020. In December 2008, CARB approved the Climate Change Scoping Plan Document required by AB 32. The Scoping Plan Document, which provides a roadmap for California to reduce its GHG emissions, recognizes the importance of development and implementation of Climate Action Plans by California cities and counties. Executive Order S-03-05 goes even further by requiring statewide reductions in GHG emissions to 80 percent below 1990 by the year 2050.

City of Manteca Municipal Code

The City's Municipal Code includes the following regulations that would reduce GHG emissions from future development:

- Green Code (Chapter 15.22)
- Building Conservation Code (Chapter 15.18)
- Energy Code (Chapter 11.105)

City of Manteca General Plan

The General Plan includes GHG reduction strategies to help the City sustain its natural resources, grow efficiently, and meet California legal requirements for GHG emissions reduction. Multiple policies and actions in the General Plan have GHG implications including those targeting land use, housing, transportation, water usage, solid waste generation and recycling, and reuse of historic buildings. The policies also include a monitoring component that allows for adaptation and adjustment of City programs and initiatives related to sustainability and associated reductions in GHG emissions. The GHG Reduction Strategy is intended to meet the mandates as outlined in the CEQA Guidelines and the recent standards for "qualified plans" as set forth by SJVAPCD.

The General Plan includes the following GHG reduction policies, which are applicable to the project.

AQ-P-1: Cooperate with other agencies to develop a consistent and coordinated approach to reduction of air pollution and management of hazardous air pollutants.

AQ-P-10: Encourage energy efficient building designs.

AQ-I-15: Design review criteria shall include the following considerations, at a minimum:

- The developer of a sensitive air pollution receptor shall submit documentation that the project design includes appropriate buffering (e.g., setbacks, landscaping) to separate the use from highways, arterial streets, hazardous material locations and other sources of air pollution or odor.

- Promote the use of new and replacement fuel storage tanks at refueling stations that are clean fuel compatible, if technically and economically feasible.
- The use of energy efficient lighting (including controls) and process systems beyond Title 24 requirements shall be encouraged where practicable (e.g., water heating, furnaces, boiler units, etc.)
- The use of energy efficient automated controls for air conditioning beyond Title 24 requirements shall be encouraged where practicable.
- Promote solar access through building siting to maximize natural heating and cooling, and landscaping to aid passive cooling and to protect from winds.

AQ-P-11: Prepare and maintain a Climate Action Plan and community greenhouse gas emission inventory for sectors with the potential for control or influence by the City that demonstrates consistency with State of California targets.

AQ-P-12: Development projects shall incorporate the applicable strategies of the City of Manteca Climate Action Plan as needed to demonstrate consistency with CAP reduction targets and AB 32.

AQ-I-16: Track and monitor aspects of development related to CAP strategies on an ongoing basis to measure progress in achieving CAP reduction targets.

AQ-I-17: Track implementation of municipal and community projects and programs related to energy efficiency, transit service improvements, transportation facilities such as bicycle paths and lanes, pedestrian infrastructure, and other projects that reduce greenhouse gas emissions throughout the community. AQ-I-18. Update CAP emission inventories, targets, and strategies to reflect new State of California greenhouse gas reduction targets when adopted for later years and to reflect the benefits of any new State and federal regulatory actions that reduce greenhouse gas emissions to demonstrate continued consistency with State targets.

CD-P-33: Passive solar design features are encouraged whenever possible. Design of buildings should consider energy-efficient concepts such as natural heating and/or cooling, sun and wind exposure and orientation, and other solar energy opportunities.

RC-P-6: Comply with construction and design standards that promote energy conservation.

THRESHOLDS

According to the SJVAPCD, impacts are less than significant if a project complies with adopted statewide, regional, or local plan for reduction or mitigation of GHG emissions. The vast majority of individual projects do not generate sufficient GHG emissions to create a project-specific impact through a direct influence on climate change; therefore, the issue of climate change typically involves an analysis of whether a project's contribution towards an impact is cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15355).

The SJVAPCD's has evaluated different approaches for estimating impacts and summarizing potential GHG emission reduction measures. The SJVAPCD staff has concluded that "existing science is inadequate to support quantification of impacts that project specific GHG emissions have on global climatic change." This is readily understood when one considers that global climatic change is the result of the sum total of GHG emissions, both man-made and natural that occurred in the past; that is occurring now; and will occur in the future. The effects of project specific GHG emissions are cumulative, and unless reduced or mitigated, their incremental contribution to global climatic change could be considered significant.

The *Final Draft Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD, 2015) provides an approach to assessing a Project's impacts on greenhouse gas emissions by evaluating the Project's emissions to the "reduction targets" established in ARB's AB 32 Scoping Plan. For instance, the SJVACD's guidance recommends that projects should demonstrate that "*project specific GHG emissions would be reduced or mitigated by at least 29%, compared to Business as Usual (BAU), including GHG emission reductions achieved since the 2002-2004 baseline period, consistent with GHG emission reduction targets established in ARB's AB 32 Scoping Plan. Projects achieving at least a 29% GHG emission reduction compared to BAU would be determined to have a less than significant individual and cumulative impact for GHG*."

Subsequent to the SJVAPCD's approval of the *Final Draft Guidance for Assessing and Mitigating Air Quality Impacts* (SJVAPCD 2015), the California Supreme Court issued an opinion that affects the conclusions that should/should not be drawn from a GHG emissions analysis that is based on consistency with the AB 32 Scoping Plan. More specifically, in *Center for Biological Diversity v. California Department of Fish and Wildlife*, the Court ruled that showing a "project-level reduction" that meets or exceeds the Scoping Plan's overall statewide GHG reduction goal is not necessarily sufficient to show that the project's GHG impacts will be adequately mitigated: "*the Scoping Plan nowhere related that statewide level of reduction effort to the percentage of reduction that* would *or should be required from individual projects...*" According to the Court, the lead agency cannot simply assume that the overall level of effort required to achieve the statewide goal for emissions reductions will suffice for a specific project.

Given this Court decision, reliance on a 29 percent GHG emissions reduction from projected BAU levels compared to a project's estimated 2020 levels as recommended in the SJVAPCD's guidance documents will not be the basis for an impact conclusion in this EIR. Given that the SJVAPCD staff has concluded that "*existing science is inadequate to support quantification of impacts that project specific GHG emissions have on global climatic change*," this analysis instead relies on a qualitative approach to evaluate the project's GHG impacts. Specifically, the analysis relies on an assessment of the proposed project for consistency with the City of Manteca CAP, which is specifically designed to reduce GHG emissions in accordance with the GHG emission reduction targets identified by the State of California in the CARB Scoping Plan. Additionally, a qualitative analysis of the proposed project's consistency with other relevant planning documents and relevant laws is provided herein.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact.

Short-Term Construction Greenhouse Gas Emissions

Construction of the project would result in direct emissions of CO2, N2O, and CH4 from the operation of construction equipment and the transport of materials and construction workers to and from the project site. SJVAPCD does not have a threshold for construction GHG emissions, which are one-time, short-term *emissions* and therefore would not significantly contribute to long-term cumulative GHG emissions impacts of the proposed project. However, the SJVAPCD advises that construction GHG should be disclosed and a determination on the significance of construction GHG emissions in relation to meeting AB 32 GHG reduction goals should be made. Total GHG emissions generated during all phases of construction were combined and are presented in *Table 9: Construction Greenhouse Gas Emissions*. The CalEEMod outputs are contained within the Appendix G.

Table 9: Construction Greenhouse Gas Emissions

Year	$MTCO_2e$[1]
2022	288
2023	684
Total	972
Amortized	32.1

$MTCO_2e$ = metric tons of carbon dioxide equivalent.
1. Due to Rounding, Total $MTCO_2e$ may be marginally different from CalEEMod output.
Source: CalEEMod version 2016.4.0. Refer to Appendix G for model outputs.

As shown in *Table 9*, project construction-related activities would generate approximately 972 MTCO2e of GHG emissions over the course of construction. One-time, short-term construction GHG emissions are typically summed and amortized over the project's lifetime (assumed to be 30 years). It is reasonable to look at a 30-year time frame for buildings since this is a typical interval before a new building requires the first major renovation. The amortized project emissions would be approximately 32.1 $MTCO_2e$ per year. Once construction is complete, the generation of construction-related GHG emissions would cease.

Long-Term Operational Greenhouse Gas Emissions

The proposed project would include the demolition of the existing buildings and construction of 11 commercial/retail buildings, totaling 209,730 square feet. Operational or long-term emissions would occur over the project's life. GHG emissions would result from direct emissions such as project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power over the life of the project, the energy required to convey water to, and wastewater from the project site, the emissions associated with solid waste generated from the project site, and any fugitive refrigerants from air conditioning or refrigerators. It should be noted that the project would comply with the 2019 Title 24 Part 6 Building Energy Efficiency Standards. The standards require updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa), residential and nonresidential ventilation requirements, and nonresidential lighting requirements that would cut residential energy use by more than 50 percent (with solar) and nonresidential energy use by

30 percent. The standards also encourage demand responsive technologies including battery storage and heat pump water heaters and improve the building's thermal envelope through high performance attics, walls and windows to improve comfort and energy savings (California Energy Commission, March 2018). The project would also comply with the appliance energy efficiency standards in Title 20 of the California Code of Regulations. The Title 20 standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances. The project would be constructed according to the standards for high-efficiency water fixtures for indoor plumbing and water efficient irrigation systems required in 2019 Title 24, Part 11 (CALGreen).

At the State and global level, improvements in technology, policy, and social behavior can also influence and reduce operational emissions generated by a project. The state is currently on a pathway to achieving the Renewable Portfolio Standards goal of 60 percent renewables by 2030 per SB 100.

The majority of project emissions would occur from mobile and energy sources. Energy and mobile sources are targeted by statewide measures such as low carbon fuels, cleaner vehicles, strategies to promote sustainable communities and improved transportation choices that result in reducing VMT, continued implementation of the Renewable Portfolio Standard (the target is now set at 60 percent renewables by 2030), and extension of the Cap-and-Trade program (requires reductions from industrial sources, energy generation, and fossil fuels). The Cap-and-Trade program covers approximately 85 percent of California's GHG emissions as of January 2015. The statewide cap for GHG emissions from the capped sectors (i.e., electricity generation, industrial sources, petroleum refining, and cement production) commenced in 2013 and will decline approximately three percent each year, achieving GHG emission reductions throughout the program's duration. The passage of AB 398 in July 2017 extended the duration of the Cap-and-Trade program from 2020 to 2030. With continued implementation of various statewide measures, the project's operational energy and mobile source emissions would continue to decline in the future.

As discussed in Impact Statement GHG-2, below, the proposed development would be constructed in compliance with the City's CAP which would requires the project to achieve GHG emissions reductions by implementing specific reduction strategies. The proposed project, therefore, would be consistent with the City's GHG Reduction and General Plan and would have a less than significant GHG emissions impact.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact.

City of Manteca Climate Action Plan Consistency

On October 15, 2013, the City of Manteca adopted their CAP, which is intended to support the goals of AB 32 and SB 32. The CAP is designed to reduce community-related and City operations-related GHG emissions to a degree that would not hinder or delay implementation of AB 32. In order to do such, the City has outlined a course of action for the City government and the community of Manteca to reduce per capita GHG emissions. Projects showing consistency with the CAP would be considered not to contribute significant GHG emissions impacts.

For new development projects constructed in the City of Manteca, the CAP requires the development projects to achieve GHG emissions reductions by implementing specific reduction strategies. The City of Manteca CAP is consistent with the goals presented in AB 32 and SB 32 and, therefore, projects considered consistent with the CAP would be considered to result in a less-than-significant impact related to GHG emissions. The proposed project's consistency with the reduction strategies in the CAP is assessed in *Table 10: City of Manteca CAP Consistency* below.

Table 10: City of Manteca CAP Consistency

CAP Strategy	Project Consistency
Comply with the applicable land use, sustainable development, and resource conservation policies of the Manteca General Plan	**Consistent**. The proposed project would not require any land use changes, as the existing designation is consistent with the proposed mixed-use development.
Construct project transportation infrastructure that supports walking, bicycling, and transit use	**Consistent**. The proposed project would not alter existing street, pedestrian walkways or bike lanes. Additionally, the project would include connections to the existing pedestrian walkways.
Implement transportation demand management programs in projects with large numbers of employees	**Consistent.** The City would notify the developer of the proposed project regarding the requirements of SJVAPCD Rule 9410 to implement TDM programs that reduce commute trips.
Design and construct project buildings to exceed Title 24 Energy Efficiency Standards by at least 10 percent	**Consistent**. The proposed project would be required to comply with all applicable standards set forth in Title 24. Additionally, the proposed would be required to meet the water efficiency regulations within CALGreen Code.
Implement project buildings including water conservation measures that meet or exceed the California Green Building Code standards 20 percent requirement	**Consistent**. The proposed project would comply with water conservation per the California Green Building Standards Code, which requires a 20 percent reduction in indoor water use. The project would include low flow appliances and fixtures.
Install project landscaping that meets or exceeds water conservation standards of the City's adopted landscaping ordinance 20 percent reduction requirement	**Consistent**. The proposed Project would comply with the State's Model Water Efficient Landscape Ordinance. In addition, the project would be required to comply with the adopted water conservation standards set forth in Chapter 17.48 of the City's Municipal Code.
Develop programs to exceed state recycling and diversion targets by at least 10 percent.	**Consistent**. Pursuant to Municipal Code Section 13.02.120, all construction materials associated with the proposed project shall be recycled. The City of Manteca offers a free commercial recycling pickup service which would be available to the proposed project during operations.
Source: City of Manteca, *Climate Action Plan*, October 15th, 2013.	

Because the strategies included in the CAP would achieve local reductions that are adequate to meet the City's 2020 target, which is consistent with the AB 32 reduction targets, if the project is consistent with the City's CAP, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may result in a significant impact on the environment or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing emissions of GHGs. As shown in *Table 10*, the proposed project would be consistent with the strategies as described in the City of Manteca CAP and it functions as an implementation project toward achieving the City's CAP. As such, he proposed Project would not generate GHG emissions that would have a significant impact on the environment or conflict with any applicable plans, policies, or regulations and impacts related to greenhouse gases are less than significant.

Cumulative Impacts

It is generally the case that an individual project of the project's size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of project-related GHG emissions would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the project as well as other cumulative related projects, would be subject to all applicable regulatory requirements, which would further reduce GHG emissions. As discussed in GHG-2 discussion above, the project would be consistent with the City's CAP. Thus, the project would not conflict with any GHG reduction plan. Therefore, the project's cumulative contribution of GHG emissions would be less than significant and the project's cumulative GHG impacts would also be less than cumulatively considerable.

5.9 HAZARDS AND HAZARDOUS MATERIALS

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
HAZARDS AND HAZARDOUS MATERIALS. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			**X**	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			**X**	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			**X**	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			**X**	
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?			**X**	
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			**X**	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			**X**	

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact.

Construction

Any potentially hazardous materials used during Project construction would be handled on-site. This generally includes paints and solvents and other petroleum-based products, usually used for on-site construction equipment and for building exterior finishes. The use or handling of these potentially hazardous materials would be short-term only during the construction phase of Project. Although these materials could be stored on-site, they would be required to comply with the guidelines established by the City of Manteca. The transport, removal, and disposal of hazardous materials on the Project site would be conducted by a permitted and licensed service provider consistent with federal, state, and local requirements including the EPA, the California Department of Toxic Substances Control (DTSC), the California Occupational Safety and Health Administration (Cal/OSHA), Caltrans, the Resource Conservation and Recovery Act, and the Victorville Fire Department (VFD) or through the Conditionally Exempt Small Quantity Generator (CESQG) Program. With the compliance with local, state, and federal regulations short-term construction impacts associated with the handling, transport, use, and disposal of hazardous materials would be less than significant.

Operations

During project operations, widely used hazardous materials common at commercial/retail and office uses include cleaners, pesticides, and food waste would be present. The remnants of these and other products are disposed of as household hazardous waste that are prohibited or discouraged from being disposed of at local landfills. Regular operation and maintenance of the project structures would not result in significant impacts involving use, storage, transport or disposal of hazardous wastes and substances. Use of common commercial/retail and office hazardous materials and their disposal does not present a substantial health risk to the community Additionally, the project site is not included on the list of hazardous waste sites (Cortese List) compiled by the Department of Toxic Substances Control (DTSC) pursuant to Government Code § 65962.5 and therefore would not release known hazardous materials due to ground-disturbing activities.[6] Project impacts associated with the routine transport and use of hazardous materials or wastes would be less than significant.

Direct hazardous waste would be generated from landscaping involving the use of pesticides/herbicides and fertilizers. Landscaping maintenance best management practices (BMPs) would be conducted according to the California Stormwater Quality Associations; Stormwater BMPs which would reduce pesticides and fertilizers from running off off-site. Indirect hazardous materials such as sediment, metals, oils and grease, trash/debris and other organic compounds that usually known as stormwater pollutants would be captures via infiltration basins to avoid stormwater runoff from seeping off-site consistent with the City's stormwater management requirements.

[6] Department of Toxic Substances Control (DTSC) EnviroStor. 2021. *Hazardous Waste and Substances Site List.* https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=menifee. Accessed March 2021.

Hazardous waste generated from the proposed vehicle service station/car wash could include cleaning agents, sediments, oil/grease, etc. There also would be limited transport and storage of pool cleaning supplies, associated with the proposed Hotel. The chemicals used to maintain the pool would be stored in compliance with all applicable Federal, State, and City requirements and any additional laws or regulations. The waste associated with this will conform to applicable federal, state, and local agency regulations. Proposed development is subject to the requirements of Chapter 13.28 of the Manteca Municipal Code. – Stormwater Management and Discharge Control. The purpose of these requirements is to "establish minimum storm water management requirements and controls to protect and safeguard the general health, safety and welfare of the public residing in watersheds within the City of Manteca." These requirements are intended to assist in the protection and enhancement of the water quality of watercourses, water bodies, and wetlands in a manner pursuant to and consistent with the Federal Water Pollution Control Act (Clean Water Act, 33 USC Section 1251 et seq.), Porter- Cologne Water Quality Control Act (California Water Code Section 13000 et seq.) and National Pollutant Discharge Elimination System ("NPDES") Permit No. CAS000004, as such permit is amended and/or renewed.

Operations of the gas station would include the use, transport and handling of hazardous materials. Specifically, operation activities would include the regular transportation of gasoline to refill USTs, refilling USTs and pumping gasoline to fuel dispensers, and regular use of the fuel dispensers by motorists. As a result, the proposed Maverik gas station could result in potentially adverse impacts to people and the environment as a result of hazardous materials being accidentally released into the environment (e.g., operators or motorists could spill gasoline while refueling, USTs or pipes dispensing fuel from USTs could leak, automobiles could crash into fuel dispensers, or motorists could refuel while having engine running causing a fire hazard). However, the proposed Maverik Gas Station would be required to operate in compliance with all with applicable federal, state, and local requirements which lessen the potential for these impacts. Some of these regulations include:

- California State Water Resources Control Board (SWRCB) Health and Safety Code, Section 25280, underground storage tanks (USTs) installed after 1988 are required to have a leak detection system consisting of at least one of the following detection methods: secondary containment with interstitial monitoring, automatic tank gauging systems (including continuous automatic tank gauging systems), vapor monitoring (including tracer compound analysis), groundwater monitoring, statistical inventory reconciliation, or other method meeting established performance standards.
- Efficacy requirements established by Environmental Protection Agency (EPA) require that leak detection methods be able to detect certain leak rates and that they also give the correct answer consistently. In general, methods must detect the specified leak rate with a probability of detection of at least 95 percent and a probability of false alarm of no more than 5 percent. EPA found that, with effective leak detection, operators can respond quickly to signs of leaks and minimize the extent of environmental damage and the threat to human health and safety.
- USTs and associated fuel delivery infrastructure (i.e., fuel dispensers) would be required to comply with applicable federal, state, and local regulations, including those provisions established by

Section 2540.7, Gasoline Dispensing and Service Stations, of the California OSHA Regulations; Chapter 38, Liquefied Petroleum Gases, of the California Fire Code; the Resource Conservation and Recovery Act; and the County Fire Department Hazardous Materials Division.

- The proposed Project would also be required to incorporate high-efficiency Phase I and Phase II enhanced vapor recovery (EVR) systems to capture and control gasoline fumes. EVR refers to a new generation of equipment to control emissions at gasoline dispensing facilities in California. EVR systems collect gasoline vapors that would otherwise escape into the atmosphere during bulk fuel delivery (Phase I) or fuel storage and vehicle refueling (Phase II). Since 2009, the installation of Phase I and Phase II EVR systems has been required for gasoline dispensing facilities.
- The fuel dispensers, USTs, and associated fuel delivery infrastructure would be subject to routine inspection by federal, state, and local regulatory agencies with jurisdiction over convenience service station facilities.
- The handling, transport, use, and disposal of hazardous materials must comply with applicable federal, state, and local agencies and regulations.
- In addition to compliance with local, state, and federal requirements, Maverick would take additional measures to prevent environmental and safety impacts. Some of these additional measures, which are proposed as Project design features, include:
- Product, vapor, and vent piping would be noncorrosive and would provide three levels of protection. First, product piping would be monitored with pressure line leak detection. Second, piping would be double wall to provide secondary containment. Third, fiberglass piping would be additionally monitored under vacuum in accordance with AB 2481 regulations such that, if a breach is detected in the vacuum, the product delivery system would shut down, and the system would sound an audible alarm.
- Piping connections to the tanks and dispensers would be flexible. Flexible connectors would be used to prevent rupture from any form of ground movement.
- Piping would slope to the sumps at the USTs. If a piping leak occurs, the gasoline would flow through the secondary pipe to the sump, where a sensor would be triggered to immediately shut down the system and activate an audible/visual alarm.
- Tanks and dispensers would be equipped with latest Phase I and Phase II EVR vapor recovery air pollution control equipment technology in accordance with the California Air Resources Board regulations and associated Executive Orders. The Phase I EVR equipment would control the vapors in the return path from the tanks back to the tanker truck during offloading filling operations. Phase I EVR systems are 98 percent effective in controlling fugitive emissions from escaping into the environment. Phase II EVR equipment, which also includes “in-station diagnostics,” would control and monitor the vapors in the return path from the vehicles back to the tanks and are 95 percent effective in controlling fugitive emissions from escaping into the environment.
- The UST monitoring system incorporates automatic shutoffs. If gasoline is detected in the sump at the fuel dispenser, the dispenser would shut down automatically, and an alarm would sound. If a problem is detected with a tank, the tank would be automatically shut down, and an alarm would sound. If the product piping system detects a failure of the 0.1 gallons per hour test, the

line would be automatically shut down, and the alarm would sound. Pursuant to federal requirements, monitoring equipment must be able to detect a minimum leak of 3 gallons per hour (equivalent to the accuracy of a mechanical leak detector). Each fuel dispenser would include several safety devices. Specifically, each dispenser sump would be equipped with an automatic shutoff valve to protect against vehicle impact. In addition, each fuel hose would include a breakaway device that would stop the flow of fuel at both ends of the hose in the event of an accidental drive-off. Also, each dispenser would be equipped with internal fire extinguishers. Lastly, dispensers would include leak detection sensors connected to the alarm console inside the controller closure.

Therefore, based on compliance with federal, state, and local regulations, and the incorporation of the proposed Project design features, impacts associated with the handling, transport, use, and disposal of hazardous materials and the release of hazardous materials into the environment would be less than significant

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant Impact. As previously mentioned, the project site is previously disturbed undeveloped land, excluding a small portion on the west side of the project site. The project site proposed grading is expected to be a balanced cut and fill requiring no imported soil to backfill excavated areas. This eliminates the potential risk of imported soils being contaminated and requiring appropriate sampling.

The project is located with SR 120 and the Airport Way off ramp to the north, Airport Way to the east, and W Atherton Dr to the south. SR 120 and the Airport Way off ramp, Airport Way, and W Atherton Dr, were all constructed prior to 1992 when lead was still being added to gasoline. Aerially deposited lead (ADL) contaminated soils may exist along roadsides up to 30 feet[7] from the pavement and within the top 6 inches of the soil. Development of the project does not include any disturbance of soils within 30 ft of SR 120. The off ramp is approximately 30 ft from the project site boundaries and was not heavily utilized prior to 1992, therefore no ADL contaminated soils are expected to be encountered on the north boundary of the project site. Prior to 1992 Airport Way to the east of the project site had not been expanded to include right and left turn lanes. At the time of potential ADL exposure, the distance between the paved road and project site would be greater than 30 ft. Overall, there is not expected to be any ADL contaminated soils on the project site. The project does not propose any widening Airport Way or W. Atherton Drive. As such, potential impacts are considered less than significant.

Given the previous uses of the project site it is unlikely hazardous material would be discovered on-site. However, there is the potential for inadvertent discovery of hazardous waste from historic or future activities on or near the project site. At such time the proper agencies (i.e., fire

[7] DTSC factsheet (available online here: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/f0004055-caltrans-fs-a11y.pdf)

department, DTSC, and/or Cal/OSHA), would be notified to determine what future actions and/or remediation would be required to identify the extent and potential impact to human health.

Overall, with compliance to federal, state, and local regulations, and the incorporation of the proposed Project design features, impacts would be less than significant.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant Impact. There are no schools within 0.25 miles of the project site and as noted above the project would be in compliance with federal, state, and local regulations. As such, all preventive measures would be in place to limit the hazardous emissions and waste in such a way that would not impact the neighboring school. As such impacts are expected to be less than significant.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less than Significant Impact. There are no superfund sites or hazardous waste and substances sites (Cortese List) within the project site boundaries (Geotracker, 2022). Additionally, there are no known hazardous materials sites within the projects boundaries as identified on the State of California Geotracker Map (State of California, 2021). Therefore, a less than significant impact associated with hazardous materials sites would occur.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

Less than Significant Impact. There are no public airports or of public use airports within 2 miles of the project site. The closest airports are; Stockton Metropolitan Airport approximately 7.5 miles away, New Jerusalem Airport approximately 6 miles away, and Tracy Municipal Airport approximately 11.7 miles away. Additionally, the project site does not fall within any airport land use plan boundaries and therefore impacts associated with a safety hazard or excessive noise would be less than significant.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. The project is not anticipated to physically impede the existing emergency response plans, emergency vehicle access, or personnel access to the site. The project would not change local roadway circulation patterns or access. Emergency vehicle access must be maintained at all times throughout construction activities, in accordance with the County's routine/standard construction specifications. Further, construction activities would not be permitted to impede emergency access to any local roadways or surrounding properties. All driveways and internal site access roads would be constructed to accommodate all emergency

vehicles and personnel. In April 2019, the San Joaquin County Board of Supervisors adopted an Emergency Operations Plan (EOP).21 The primary purpose of the EOP is to outline the County's all-hazard approach to emergency operations to protect the safety, health, and welfare of its citizens throughout all emergency management mission areas. Given that the proposed project is consistent with the site's current land use and zoning designations, the project would not physically interfere with the EOP. As such, the Project would have a less than significant impact associated with the impairment or interference with an adopted emergency response plan.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Less Than Significant Impact. The Project site is not located within an area identified as having wildland fire potential. Therefore, the Project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires. Additionally, according to CALFIRE, the Project site is not located in a Very High Fire Hazard Severity Zone (VHFHSZ) (CALFIRE, 2007). As such, the Project would not expose people or structures to a significant risk of loss, injury or death involving wildland fires. A Less Than Significant impact would occur.

Cumulative Impacts

The incremental effects of the proposed Project related to hazards and hazardous materials, if any, are anticipated to be minimal, and any effects would be site-specific. The Project is also not within an area classified as a VHFHSZ. Therefore, the proposed Project would not result in incremental effects to hazards or hazardous materials that could be compounded or increased when considered together with similar effects from other past, present, and reasonably foreseeable probable future projects. The proposed Project would not result in cumulatively considerable impacts to or from hazards or hazardous materials.

5.10 HYDROLOGY AND WATER QUALITY

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
HYDROLOGY AND WATER QUALITY. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?		**X**		
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			**X**	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) Result in substantial erosion or siltation on- or off-site?		**X**		
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?		**X**		
iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?		**X**		
iv) Impede or redirect flood flows?			**X**	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			**X**	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			**X**	

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant With Mitigation Incorporated. The project site falls within the San Joaquin Valley Groundwater Basin and Eastern San Joaquin sub basin. There are no surface waters or wetlands located on the project site per the National Wetlands Inventory (USFWS, 2022). During the early stages of project construction activities, topsoil would be exposed due to grading, trenching for utilities, and other standard ground-disturbing activities. After grading and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality downstream. The SWRCB regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a land disturbance of one or more acres. The City's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's General Construction Permit requires that subject projects must file a Notice of Intent with the SWRCB and develop a site-specific Storm Water Pollution Prevention Plan (SWPPP). A SWPPP describes Best Management Practices (BMPs) to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts, and non-point source pollution impacts of the development project. BMPs include, but are not limited to, tracking controls, perimeter sediment controls, drain inlet protection, wind erosion/dust controls, and waste management control. Because the proposed project would disturb greater than one acre of land, the project would be subject to the requirements of the State's General Construction Permit.

Mitigation Measure MM HYD-1 would require the preparation of a SWPPP to ensure that the proposed project prepares and implements a SWPPP throughout the construction phase of the project. By implementing and maintaining proper BMPs, the potential for short-term sediment introduction should be minimized. The SWPPP (Mitigation Measure HYD-1) would reduce the potential for the proposed project to violate water quality standards during construction.

Post construction surface water at the site would be collected and run through a catch basin with an oil & gas separator, to a bioretention basin, and then to a proposed 18-inch storm drain that would connect to an existing stormwater drain in W Atherton Drive. To ensure that such a system is implemented, mitigation is proposed requiring the project applicant, as part of the stormwater quality control plan required under Mitigation Measure MM HYD- 2, to include a drainage plan that demonstrates attainment of pre-project runoff volumes and peak flows prior to release in the City's storm drain system.

With the above compliance with and implementation of MM HYD-1 and MM HYD-2 the project would have a less than significant impact related to water quality and water discharge requirements.

MM HYD-1: Prior to the issuance of grading or building permits for each proposed activity within the Master Plan area, the project applicant shall prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) to the City of Manteca for approval that identifies specific actions and Best Management Practices (BMPs) to prevent stormwater pollution during construction activities. The SWPPP shall identify a practical sequence for BMP implementation, monitoring, and maintenance; site restoration; contingency measures; responsible parties; and agency contacts. The SWPPP shall include but not be limited to the following elements:

- Temporary erosion control measures shall be employed for disturbed areas.
- Specific measures shall be identified to protect the onsite open drainages during construction of the proposed project.
- No disturbed surfaces shall be left without erosion control measures in place during the winter and spring months.
- Sediment shall be retained onsite by a system of sediment basins, traps, or other appropriate measures.
- The construction contractor shall prepare Standard Operating Procedures for the handling of hazardous materials on the construction site to eliminate or reduce discharge of materials to storm drains.
- BMP performance and effectiveness shall be determined either by visual means where applicable (e.g., observation of above-normal sediment release), or by actual water sampling in cases where verification of contaminant reduction or elimination (such as inadvertent petroleum release) is required by the RWQCB to determine adequacy of the measure.
- In the event of significant construction delays or delays in final landscape installation, native grasses or other appropriate vegetative cover shall be established on the construction site as soon as possible after disturbance, as an interim erosion control measure throughout the wet season.

MM HYD-2: Prior to the issuance of building or grading permits for any development activities that occur pursuant to the Master Plan, the project applicant shall submit a stormwater quality control plan to the City of Manteca for review and approval. The plan shall include a detailed drainage plan and identify expected site-specific pollutants and required measures to treat those pollutants before they reach the municipal storm drain. The approved measures shall be incorporated into the proposed project. The plan will describe monitoring and performance measures and standards required in order to ensure water quality is adequately protected during operation of all proposed sites within the project area. Examples of stormwater pollution prevention measures and practices to be incorporated into the plan include but are not limited to:

- Strategically placed bioswales and landscaped areas that promote percolation of runoff
- Pervious pavement
- Roof drains that discharge to landscaped areas
- Trash enclosures with screen walls and roofs
- Stenciling on storm drains
- Curb cuts in parking areas to allow runoff to enter landscaped areas
- Rock-lined areas along landscaped areas in parking lots
- Catch basins
- Oil/water separators
- Regular sweeping of parking areas and cleaning of storm drainage facilities
- Employee training to inform maintenance personnel of stormwater pollution prevention measures

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

And,

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less Than Significant Impact. As previously mentioned, the project is within the San Joaquin Valley Groundwater Basin and Eastern San Joaquin sub basin. The Department of Water Resources has classified the Eastern San Joaquin County Groundwater Basin (ESJCGB) as a basin in a critical condition of overdraft. Groundwater overdraft in the ESJCGB and the City's groundwater withdrawal rate is of vital concern to the City as this poses a long-term risk to the reliability of the groundwater supply. According to the City's Urban Water Management Plan (UWMP), in order to reduce dependence on groundwater and ensure sustainable yields, the City's goal is to achieve a 53 percent to 47 percent annual balance of surface water to groundwater, respectively. The combined use of surface water and groundwater by the City is intended to reduce the groundwater withdrawal to the established sustainable yield of one acre-foot per year per acre (AFY/ac). The resulting reduction in groundwater withdrawal has stabilized groundwater levels in the Manteca area. As buildout of the General Plan continues over time, groundwater pumped would remain

limited to the safe yield of one AFY/ac, and projected future water demands would be met by a combination of groundwater, imported water, and recycled water.

The proposed project would generate an increase in water demand. However, such demand would be met through a combination of the aforementioned water sources. Development of the project site would not result in an increase in groundwater pumping because the City cannot exceed the sustainable groundwater pumping yield.

In addition, the project site constitutes a relatively small area compared to the size of the groundwater basin and, thus, does not constitute a substantial source of groundwater recharge. The project would allow for some continued infiltration through the proposed bio-retention basin and unpaved landscaping throughout the site. Therefore, the project would not substantially interfere with groundwater recharge.

Given that the proposed project is consistent with the site's General Plan land use and zoning designations, groundwater use associated with development of the project has been anticipated by the City and accounted for in regional planning efforts, including the projections included in the City's UWMP. Therefore, the proposed project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin. The proposed project would have a less than significant impact in this regard.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial erosion or siltation on- or off-site?

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

iv) Impede or redirect flood flows?

Less Than Significant With Mitigation Incorporated. Project construction work could have an impact on surface water quality due to exposure of soils to potential erosion. Construction activities that would disturb more than an acre of land area would need to obtain a Construction General Permit, which would require preparation of a SWPPP that includes construction BMPs to control soil erosion, runoff, and waste discharges, including methods to clean up contaminants if they are released. Implementation of the SWPPP would reduce potential drainage pattern impacts from construction activities to a level that would be less than significant. In addition, the proposed project would not violate any federal, state, or local water quality standards or waste discharge

requirements. With the above compliance with and implementation of MM HYD-1 and MM HYD-2 the project would have a less than significant impact related to soil erosion, increased surface water runoff, and polluted surface water runoff.

Specific to the proposed gas station, the Maverik site includes 2 bioretention basins, one in the southeast corner 1,240 square feet and 1.5 ft deep, and the other of the southwest side 2,150 square feet and 1.6 ft deep. Stormwater at the site would be collected and run through a catch basin with an oil & gas separator, to a bioretention basin, and then to a proposed 18-inch storm drain that would connect to an existing stormwater drain in W Atherton Drive.

The project site falls within FEMA's National Flood Hazard FIRM Panel 06077C0620F, Zone X Area with Reduced Flood Risk Due to Levee (FEMA, 2020). The north west portion of the project site all overlaps with a Letter of Map Revision (LOMR) 11-09-3002P area effective 9/2/2011. This states that in the unlikely case of levee overtopping or failure, future developments upstream could experience increase flood discharges and potentially flood hazards. Overall, with the project location in an area with reduced flood risk due to a levee the project would not impede or redirect flood flow which would result in a less than significant impact.

In conclusion, the proposed project would not substantially alter the existing drainage pattern of the site or area in a manner which would result in erosion, siltation, or flooding on- or off-site, create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. Consequently, implementation of the proposed project would result in a less-than-significant impact.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less Than Significant Impact. The Project site is located around 60 miles inland from the Pacific Ocean. As such, the potential for the Project site to be inundated by a tsunami is negligible. No steep slopes are located in the Project vicinity; therefore, the risk of mudflow is also negligible. Therefore, impacts would be less than significant.

Cumulative Impacts

The potential impacts related to hydrology and storm water runoff are typically site specific and site specific BMPs are implemented at the project level. The analysis above determined that the implementation of the proposed project would not result in significant impacts. In regard to proposed project impacts that would be considered less than significant, such impacts are not expected to result in compounded or increased impacts when considered together with similar effects from other past, present, and reasonably foreseeable probable future projects, as other projects would be subject to similar laws and requirements regarding hydrology practices.

Projects would be required to adhere to applicable General Plan goals, policies, and action statements; the City of Manteca's Municipal Zoning Code; the City's Standard Conditions of Approval; and the City's

stormwater management guidelines regarding stormwater runoff and infrastructure. In addition, other projects would be required to implement stormwater pollution best management practices during construction and design measures to reduce water quality impacts and comply with the NPDES Municipal Regional Permit. Future developments in the watershed would also be required to comply with the SWRCB and RWQCB. Depending on the size of future projects, they would be required to obtain and comply with all required water quality permits and the Water Quality Control Plan, as needed and prepare and implement SWPPPS, implement construction BMPs, including BMPs to minimize runoff, erosion, and storm water pollution, comply with other applicable requirements. As part of these requirements, projects would be required to implement and maintain source controls, and treatment measures to minimize polluted discharge and prevent increases in runoff flows that could substantially decrease water quality. Conformance to these measures would minimize runoff from those sites and reduce contamination of runoff with pollutants. Therefore, related projects are not expected to cause substantial increases in storm water pollution. With compliance with State and local mandates, cumulative impacts would be less than significant, and project impacts would not be cumulatively considerable.

5.11 LAND USE AND PLANNING

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
LAND USE AND PLANNING. Would the project:				
a) Physically divide an established community?			**X**	
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			**X**	

a) Physically divide an established community?

Less Than Significant Impact. An example of a project that has the potential to divide an established community includes the construction of a new freeway or highway through an established neighborhood. The project proposes a commercial mixed-use development. The project would be located near already established residential community to the south, bound by SR 120 to the north, and the general area is developing with additional general commercial or low-density residential uses. Given the project's nature, scope, and location, the project would not physically divide an established community. A less than significant Impact would occur in this regard.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. The Crossing project site is proposed on land currently designated General Commercial in the General Plan Land Use Map and under the Zoning District General Commercial as identified in the Municipal Code. The Project would be consistent with the City's zoning and General Plan land use designation upon approval of individual project specific use permits dependent on commercial use. Therefore, the Project would not conflict with the City's land use plan, policy, or regulation and therefore, would be less than significant.

Cumulative Impacts

Implementation of the Project would not create a significant cumulative impact to the surrounding region since its surrounding area is planned for general commercial use. As a result, no cumulative impacts related to land use and planning would occur.

5.12 MINERAL RESOURCES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
MINERAL RESOURCES. Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?			**X**	
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?			**X**	

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Less Than Significant Impact. There are no wells located on the project site. The closest wells within a mile of the project site are all dry hole wells that are plugged and not used. The closest Oil and Gas Field in the McMullin Ranch Gas located approximately 1.4 miles south of the project site. Overall, there are no known available mineral resources on the project site and therefore impacts from the proposed project would be less than significant.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Less Than Significant Impact. The State of California has identified lands in the General Plan Study Area, near the San Joaquin River, as areas of significant mineral resources. In particular, sand deposits in these areas are considered to be of regional significance. However, Brown Sand and Gravel, Incorporated, the only operator within the Study Area (Oakwood Lake Pit), has completed mining operations. Oakwood Lake Resort has been created from reclaimed mined lands. The proposed project would not impact these resources (City of Manteca, 2003).

Additionally, The Surface Mining and Reclamation Act of 1975 (SMARA) requires classification of land into MRZs according to the known or inferred mineral potential of the area. Under SMARA, areas are categorized into MRZs as follows:

- **MRZ-1** Areas where the available geologic information indicates no significant mineral deposits or a minimal likelihood of significant mineral deposits.
- **MRZ-2** Areas where the available geologic information indicates that there are significant mineral deposits or that there is a likelihood of significant mineral deposits. However, the significance of the deposit is undetermined.

- **MRZ-3** Areas where the available geologic information indicates that mineral deposits are inferred to exist; however, the significance of the deposit is undetermined.
- **MRZ-4** Areas where there is not enough information available to determine the presence or absence of mineral deposits.

Designated by the California Geological Survey, the project site falls within MRZ-1 as having no significant mineral deposits present (CGS, 2012). Therefore, the development of the proposed project would not result in the loss of availability of a locally-important mineral resource recovery site and impacts would be less than significant.

Cumulative Impacts

Implementation of the Project would not create a significant cumulative impact to the surrounding region as there is no loss of a known mineral resource on the project site or significant mineral deposits present on the project site. As a result, no cumulative impacts related to mineral resources would occur.

5.13 NOISE

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
NOISE. Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			**X**	
b) Generation of excessive groundborne vibration or groundborne noise levels?			**X**	
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?			**X**	

REGULATORY SETTING

State

California Government Code

California Government Code Section 65302(f) mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of "normally acceptable", "conditionally acceptable", "normally unacceptable", and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 CNEL and "conditionally acceptable" up to 70 CNEL. Multiple-family residential uses are "normally acceptable" up to 65 CNEL and "conditionally acceptable" up to 70 CNEL. Schools, libraries, and churches are "normally acceptable" up to 70 CNEL, as are office buildings and business, commercial, and professional uses.

Title 24 – Building Code

The State's noise insulation standards are codified in the California Code of Regulations, Title 24: Part 1, Building Standards Administrative Code, and Part 2, California Building Code. These noise standards are applied to new construction in California for interior noise compatibility from exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential buildings, schools, or hospitals, are located near major transportation noise sources, and where such noise sources create an exterior noise level of 65 dBA CNEL or higher. Acoustical studies that

accompany building plans must demonstrate that the structure has been designed to limit interior noise in habitable rooms to acceptable noise levels. For new multi-family residential buildings, the acceptable interior noise limit for new construction is 45 dBA CNEL.

Local

City of Manteca General Plan

The Manteca General Plan identifies goals, policies, and implementations in the Noise Element. The Noise Element provides a basis for comprehensive local programs to regulate environmental noise and protect citizens from excessive exposure. *Table 11: Maximum Allowable Noise Exposure from Mobile Noise* Sources lists land uses and associated maximum allowable mobile noise in outdoor activity areas and indoor spaces. Additionally, Table *12: Performance Standards for Stationary Noise Sources or Project Affected by Stationary Noise Sources* lists daytime and nighttime noise level standards for stationary noise sources.

Table 11: Maximum Allowable Noise Exposure from Mobile Noise Sources

Land Use[4]	Outdoor Activity Areas Up to 65[1]	Interior Spaces	
		Ldn/CNEL, dBA	Leq, dBA[4]
Residential	60[2]	45	-
Transient Lodging	60[2]	45	-
Hospitals, Nursing Homes	60[2]	45	
Theatres, Auditoriums	-	-	35
Churches, Music Halls	60	-	40
Office Buildings	65	-	45
Schools, Libraries, Museums	-	-	45
Playgrounds, Neighborhood parks	70	-	-

1. Outdoor activity areas for residential development are considered to be backyard patios or decks of single family dwellings, and the common areas where people generally congregate for multi-family developments. Outdoor activity areas for non-residential developments are considered to be those common areas where people generally congregate, including pedestrian plazas, seating areas, and outside lunch facilities. Where the location of outdoor activity areas is unknown, the exterior noise level standard shall be applied to the property line of the receiving land use.
2. In areas where it is not possible to reduce exterior noise levels to 60 dB L_{dn} or below using a practical application of the best noise-reduction technology, an exterior noise level of up to 65 L_{dn} will be allowed.
3. Determined for a typical worst-case hour during periods of use.
4. Where a proposed use is not specifically listed on the table, the use shall comply with the noise exposure standards for the nearest similar use as determined by the City.

Source: City of Manteca General Plan Noise Element Table 9-1: Maximum Allowable Noise Exposure from Mobile Noise Sources, 2003

Table 12: Performance Standards for Stationary Noise Sources or Project Affected by Stationary Noise Sources

Noise Level Descriptor	Daytime	Nighttime
	7 AM to 10 PM	10 PM to 7 AM
Hourly L_{eq}, dBA	55	45
Maximum Level, dB	70	65
1. Each of the noise levels specified above should be lowered by 5 dB for simple noise tones, noises consisting primarily of speech or music, or recurring impulsive noises. Such noises are generally considered to be particularly annoying and are a primary source of noise complaints. 2. No standards have been included for interior noise levels. Standard construction practices should, with the exterior noise levels identified, result in acceptable interior noise levels		
Source: City of Manteca General Plan Safety Element Table 9-2: Performance Standards for Stationary Noise Sources or Project Affected by Stationary Noise Sources, 2003		

The Manteca General Plan Noise Element includes the following policies for noise:

Policy N-P-1: Areas within Manteca exposed to existing or projected exterior noise levels from mobile noise sources exceeding the performance standards in Table 9-1 shall be designated as noise-impacted areas.

Policy N-P-2: New development of residential or other noise-sensitive land uses will not be permitted in noise-impacted areas unless effective mitigation measures are incorporated into the project design to satisfy the performance standards in Table 9-1.

Policy N-P-3: The City may permit the development of new noise-sensitive uses only where the noise level due to fixed (non-transportation) noise sources satisfies the noise level standards of Table 9-2. Noise mitigation may be required to meet Table 9-2 performance standards.

Policy N-P-4: The City shall require stationary noise sources proposed adjacent to noise sensitive uses to be mitigated so as to not exceed the noise level performance standards in Table 9-2.

Policy N-P-5: In accord with the Table 9-2 standards, the City shall regulate construction-related noise impacts on adjacent uses.

Policy N-P-6: Where the development of residential or other noise-sensitive land use is proposed for a noise-impacted area or where the development of a stationary noise source is proposed in the vicinity of noise sensitive uses, an acoustical analysis is required as part of the environmental review process so that noise mitigation may be considered in the project design. The acoustical analysis shall:

- Be the responsibility of the applicant.
- Be prepared by a qualified acoustical consultant experienced in the fields of environmental noise assessment and architectural acoustics.
- Include representative noise level measurements with sufficient sampling periods and locations to adequately describe local conditions and the predominant noise sources.
- Estimate existing and projected (20 years) noise levels in terms of the standards of Table S-1 or Table S-2, and compare those levels to the adopted policies of the Noise Element.
- Recommend appropriate mitigation measures to achieve compliance with the adopted policies and standards of the Noise Element.
- Estimate noise exposure after the prescribed mitigation measures have been implemented.
- If necessary, describe a post-project assessment program to monitor the effectiveness of the proposed mitigation measures.

Policy N-P-7: Noise level criteria applied to land uses other than residential or other noise-sensitive uses shall be consistent with noise performance levels of Table 9-1 and Table 9-2.

Policy N-P-8: The City shall enforce the Sound Transmission Control Standards of the California Building Code concerning the construction of new multiple occupancy dwellings such as hotels, apartments, and condominiums.

Policy N-P-11: For residential development backing on to a freeway or railroad right-of-way, the developer shall be required to build a sound barrier wall, and provide for other appropriate mitigation measures, to satisfy the performance standards in Table 9-1.

Implementation N-I-1: New development in residential areas with an actual or projected exterior noise level of greater than 60 dB Ldn will be conditioned to use mitigation measures to reduce exterior noise levels to less than or equal to 60 dB Ldn.

Implementation N-I-3: In making a determination of impact under the California Environmental Quality Act (CEQA), a substantial increase will occur if ambient noise levels are increased by 10 dB or more. An increase from 5-10 dB may be substantial. Factors to be considered in determining the significance of increases from 5-10 dB include:

- the resulting noise levels
- the duration and frequency of the noise
- the number of people affected o the land use designation of the affected receptor sites
- public reactions or controversy as demonstrated at workshops or hearings, or by correspondence

- prior CEQA determinations by other agencies specific to the project

Implementation N-I-4: Control noise at the source through use of insulation, berms, building design and orientation, buffer space, staggered operating hours and other techniques. Use noise barriers to attenuate noise to acceptable levels.

City of Manteca Municipal Code

According to Manteca Municipal Code, Section 17.58.050, Noise Standards, construction activities that create a noise disturbance across a residential property line daily between the hours of 7:00 p.m. and 7:00 a.m. are prohibited, except for emergency work of public service utilities. The Municipal Code does not establish quantitative noise limits for construction activities in the City. *Table 13: City of Manteca Zoning Ordinance Noise Standards* shows the City of Manteca standards for maximum noise level at the property line or in the M-1 and M-2 districts, at a point 500 feet from exterior wall of the use or at the property line of the use, whichever is less.

Table 13: City of Manteca Zoning Ordinance Noise Standards

Receiving Land Use Category	Time Period	Maximum Allowable Noise Levels (Ldn/CNEL, dB)
Single-Family and Limited Multiple-Family	10 pm – 7 am	50
	7 am – 10 pm	60
Multiple-Family, Public Institution, and Neighborhood Commercial	10 pm – 7 am	55
	7 am – 10 pm	60
Medium and Heavy Commercial	10 pm – 7 am	60
	7 am – 10 pm	65
Light Industrial	Anytime	70
Heavy Industrial	Anytime	75
Source: City of Manteca Municipal Code, Table 17.58.050-1		

Section 17.58.050 D states that construction activities are exempt from Section 17.58.050, when conducted as part of an approved Building Permit, except as prohibited in Subsection 17.58.050(E)(1) (Prohibited Activities) below.

1. Construction Noise. Operating or causing the operation of tools or equipment on private property used in alteration, construction, demolition, drilling, or repair work daily between the hours of 7:00 p.m. and 7:00 a.m., so that the sound creates a noise disturbance across a residential property line, except for emergency work of public service utilities

The Municipal Code establishes that exterior noise levels shall be measured with a sound level meter and associated octave band analyzer meeting the American National Standards Institute's standards S1.4-1971 for Type 1 or Type 2 sound level meters or an instrument and the associated recording and analyzing equipment that will provide equivalent data. When measuring the noise level, the corrections provided in *Table 14: Noise Level Corrections* shall be applied.

Table 14: Noise Level Corrections

Category	Correction (decibels)
Daytime operation only (7 a.m. – 7 p.m.)	+5
Noise source operates less than	
20% of any one-hour period	+5
5% of any one-hour period	+10
1% of any one-hour period	+15
Noise of impulsive character (e.g., hammering)	-5
Noise rising or falling in pitch or volume (e.g., hum, screech)	-5
Source: City of Manteca Municipal Code, Table 17.58.050-2	

Further, Section 9.52.040 F states that loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans or similar objects are prohibited between the hours of 10 p.m. and 8 a.m. in such a manner as to cause noise disturbance, except for solid waste collection.

EXISTING CONDITIONS

Existing Noise Sources

The City of Manteca is impacted by various noise sources. Mobile sources of noise, especially cars and trucks, are the most common and significant sources of noise in the City. Other sources of noise are the various land uses (i.e., residential, commercial, institutional, and recreational and parks activities) throughout the City that generate stationary-source noise.

Noise Measurements

To determine ambient noise levels in the project area, four short-term (10-minute) noise measurements were taken using a Larson Davis SoundExpert LxT Type I integrating sound level meter on January 26, 2022; refer to Appendix H for existing noise measurement data.

As shown in ***Figure 6, Noise Measurement Locations***, short-term measurement 1 (ST-1) was taken to represent the ambient noise level to the east of the project site on South Airport Way, ST-2 and ST-3 were taken to represent existing noise levels at the residential uses to the south and southeast of the project site, respectively, and ST-4 was taken to represent the existing noise level at the residential uses to the west of the project site along West Atherton Drive. The primary noise source during the noise measurements was traffic on South Airport Way, West Atherton, and State Route 120 (SR-120). *Table 15: Noise Measurements* provides the ambient noise levels measured at these locations.

Table 15: Noise Measurements

Site No.	Location	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)	L_{peak} (dBA)	Time	Date
ST-1	South Airport Way	67.9	52.7	83.1	94.6	11:49 a.m. to 11:59 a.m.	01/26/2022
ST-2	Sage Sparrow Avenue	63.8	51.8	76.0	99.3	12:04 p.m. to 12:14 p.m.	01/26/2022
ST-3	Langum Way	48.8	43.4	64.5	83.3	12:21 p.m. to 12:31 p.m.	01/26/2022
ST-4	West Atherton Drive	69.9	41.9	87.0	111.3	12:36 p.m. to 12:46 p.m.	01/26/2022

Source: Noise Measurements taken by Kimley-Horn on January 26th in 2022.

Existing Mobile Noise

Existing roadway noise levels were calculated for the roadway segments in the project vicinity. This task was accomplished using the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA-RD-77-108) and existing traffic volumes from the 2021 General Plan Draft EIR. Existing traffic volumes were obtained from the traffic modeling performed for the General Plan study area. Day/night traffic distributions were based upon continuous hourly noise measurement data. Caltrans vehicle truck counts were obtained for CA-99 and CA-120. Using these data sources and the FHWA traffic noise prediction methodology, traffic noise levels were calculated for existing (2019) conditions. The closest roadway study segment to the project site is Airport Way south of SR-120 eastbound ramps, which has approximately 17,840 average daily trips.

Existing Stationary Noise

The primary sources of stationary noise in the project vicinity are those associated with the operations of nearby residential uses to the west and south of the site, existing mixed-used commercial and industrial to the north of the project site, and vacant land to the west and south. The noise associated with these sources may represent a single-event noise occurrence, short-term noise, or long-term/continuous noise.

Sensitive Receptors

Noise exposure standards and guidelines for various types of land uses reflect the varying noise sensitivities associated with each of these uses. Residences, hospitals, schools, guest lodging, libraries, and churches are treated as the most sensitive to noise intrusion and therefore have more stringent noise exposure targets than do other uses, such as manufacturing or agricultural uses that are not subject to impacts such as sleep disturbance. The surrounding land uses are predominantly residential, with commercial uses to the north beyond SR-120. As shown in *Table 16: Sensitive Receptors* sensitive receptors near the project site include single-family residences, parks, and religious centers. These distances are from the project site to the sensitive receptor property line.

Table 16: Sensitive Receptors

Receptor Description	Distance and Direction from the Project Site
Single-family residential	80 feet southwest
Single-family residential	170 feet southeast
Bella Vista Park	500 feet west
Gurdwara Gurmat Parkash Manteca (religious establishment)	1500 feet southeast

ENVIRONMENTAL IMPACTS

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant Impact.

Construction

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g. land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential neighborhoods surrounding the construction site. Project construction would occur approximately 100 feet from the nearest sensitive receptor to the west. However, construction activities would occur throughout the project site and would not be concentrated at a single point near sensitive receptors. Noise levels typically attenuate (or drop off) at a rate of 6 dB per doubling of distance from point sources, such as industrial machinery. During construction, exterior noise levels could affect the residential neighborhoods near the construction site.

Construction activities associated with development of the project would include some demolition, site preparation, grading, paving, building construction, and architectural coating. Such activities may require graders, scrapers, and tractors during demolition and site preparation; graders, dozers, and tractors during grading; cranes, forklifts, generators, tractors, and welders during building construction; pavers, rollers, mixers, tractors, and paving equipment during paving; and air compressors during architectural coating. Grading and excavation phases of project construction tend to be the shortest in duration and create the highest construction noise levels due to the operation of heavy equipment required to complete these activities. It should be noted that only a limited amount of equipment can operate near a given location at a particular time. Equipment typically used during this stage includes heavy-duty trucks, backhoes, bulldozers, excavators, front-end loaders, and scrapers. Operating cycles for these types of construction equipment may involve one or two minutes of full-power operation followed by three to four minutes at lower power settings. Other primary sources of noise would be shorter-duration incidents, such as dropping large pieces of equipment or the hydraulic movement of machinery lifts, which would last less than one minute. According to the applicant, no pile-driving would be

required during construction and as such a project condition of approval will be included in the project permit to reflect the project's proposed construction.

Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels associated with individual construction equipment are listed in *Table 17: Typical Construction Noise Levels.*

Table 17: Typical Construction Noise Levels

Equipment	Maximum Noise Level (dBA) from Source[1]
	50 feet (reference level)
Air Compressor	80
Backhoe	80
Compactor	82
Concrete Mixer	85
Concrete Pump	82
Concrete Vibrator	76
Crane, Mobile	83
Dozer	85
Generator[2]	56
Grader	85
Impact Wrench	85
Jack Hammer	88
Loader	80
Paver	85
Pneumatic Tool	85
Pump	77
Roller	85
Saw	76
Scarifier	83
Scraper	85
Shovel	82
Truck	84
1. Calculated using the inverse square law formula for sound attenuation: $dBA_2 = dBA_1+20Log(d_1/d_2)$ Where: $QWdBA_2$ = estimated noise level at receptor; dBA_1 = reference noise level; d_1 = reference distance; d_2 = receptor location distance. 2. Generator would include CAT XQ60 Rental Generator Set.	
Source: Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018.	

Policy N-P-5 of the City's General Plan limits hourly average noise levels and maximum instantaneous noise levels due to construction activities to 50 dBA L_{eq} and 70 dBA L_{max}, respectively, during daytime hours between 7:00 a.m. and 10:00 p.m. Additionally, Implementation N-I-3 states that a 10 dBA or more increase over ambient noise levels would be considered a significant CEQA

impact. Further, Section 17.58.050(E) of the City's Municipal Code limits allowable construction hours to between 7:00 a.m. and 7:00 p.m.

Noise impacts for mobile construction equipment are typically assessed as emanating from the center of the equipment activity or construction site.[8] For the proposed project, this center point would be approximately 275 feet from the nearest sensitive receptor property line. As shown in *Table 18* noise maximum levels are below 73 dBA at 275 feet, the distance to the nearest sensitive receptor west of the site. The highest anticipated construction noise level of 73 dBA at 275 feet is expected to occur during the demolition phase. These sensitive uses may be exposed to elevated noise levels during project construction. The Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) was used to calculate noise levels during construction activities; refer to Appendix H: Noise Data. RCNM is a computer program used to assess construction noise impacts and allows for user-defined construction equipment and user-defined noise limit criteria. Noise levels were calculated for each construction phase and are based on the equipment used, distance to the nearest property/receptor, and acoustical use factor for equipment.

The noise levels calculated in *Table 18: Project Construction Noise* Levels, show estimated exterior construction noise at the closest receptors to the south and west of the project site. Based on calculations using the RCNM model, construction noise levels would range from approximately 53.1 dBA L_{eq} and 65.4 dBA L_{eq}, and 57.1 dBA L_{max} to 69.8 dBA L_{max} at the nearest sensitive receptors; see *Table 16.*

As shown in *Table 18*, the loudest noise levels would be 65.4 dBA L_{eq} and 69.8 $_{Lmax}$ at the nearest residential uses to the west, which would exceed City's hourly average threshold of 50 dBA L_{eq} and maximum instantaneous threshold of 70 dBA L_{max}. However, Section 17.58.050(D) of the municipal code states that construction activities are exempt from the City's Noise Ordinance during allowable hours, between 7:00 a.m. and 7:00 p.m., when conducted as part of an approved Building Permit. Considering project construction activities would be required to comply with the City's regulations, construction activities would be exempt from the General Plan noise level limits. As a result, a less-than-significant impact would occur related to creation of a substantial temporary or periodic increase in ambient noise levels in the project vicinity.

[8] For the purposes of this analysis, the construction area is defined as the center of the project site per the methodology in the FTA Transit Noise and Vibration Impact Assessment Manual (September 2018). Although some construction activities may occur at distances closer than 275 feet from the nearest properties, construction equipment would be dispersed throughout the project site during various construction activities. Therefore, the center of the project site represents the most appropriate distance based on the sporadic nature of construction activities.

Table 18: Project Construction Noise Levels

Construction Phase	Receptor Location			Modeled Exterior Noise Level (dBA L_{eq}) [2,3]	Noise Threshold (dBA L_{eq}) [4]	Exceeded?	Modeled Exterior Noise Level (dBA L_{max}) [2,3]	Noise Threshold (dBA L_{eq}) [4]	Exceeded?
	Land Use	Direction	Distance (feet) [1]						
Demolition	Residential	West	275	64.8	50	Yes	69.8	70	No
	Residential	South	300	64.0		Yes	69.0		No
Site Preparation	Residential	West	275	62.2		Yes	64.2		No
	Residential	South	300	61.5		Yes	63.4		No
Grading	Residential	West	275	65.4		Yes	65.2		No
	Residential	South	300	64.6		Yes	64.4		No
Building Construction	Residential	West	275	63.0		Yes	64.2		No
	Residential	South	300	62.3		Yes	63.4		No
Paving	Residential	West	275	56.9		Yes	60.2		No
	Residential	South	300	56.1		Yes	59.4		No
Architectural Coating	Residential	West	275	53.9		Yes	57.9		No
	Residential	South	300	53.1		Yes	57.1		No

Notes:
1. Distance is from the nearest receptor to the main construction activity area on the project site. Not all equipment would operate at the closest distance to the receptor.
2. Modeled noise levels conservatively assume the simultaneous operation of all pieces of equipment.
3. Modeled noise levels include a 5 dB reduction for the existing concrete wall located between the residences and W. Atherton Way.
4. Policy N-P-5 of the City's General Plan limits hourly average noise levels and maximum instantaneous noise levels due to construction activities to 50 dBA L_{eq} and 70 dBA L_{max}, respectively, during daytime hours between 7:00 a.m. and 10:00 p.m.

Source: Federal Highway Administration, *Roadway Construction Noise Model,* 2006. Refer to **Appendix H: Noise Data** for noise modeling results.

Although project construction would occur during normal daytime hours and would not be subject to the City's Municipal Code noise standards, construction activities could result in a noticeable increase in ambient noise levels in the area. Therefore, prior to the issuance of any grading permits, the project applicant shall submit and implement a Construction Noise Management Plan that specifies hours of construction, noise and vibration minimization measures, posting and notification of construction schedules, equipment to be used, and designation of a noise disturbance coordinator. The noise disturbance coordinator shall respond to neighborhood complaints and shall be in place prior to the start of construction and implemented during construction to reduce noise impacts on neighboring residents and other uses. The noise logistic plan shall be submitted to the Community Development Department Director or Director's designee of the Director of the Community Development Department prior to the issuance of any grading permits. The Construction Noise Management Plan would help to reduce noise levels associated with the construction of the proposed project. Thus, the proposed project would have a less than significant impact in this regard.

Construction Noise Management Plan

Noise reduction measures may include, but are not limited to, the following:

a) Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds) wherever feasible.

b) Except as provided herein, impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used. This muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used, if such jackets are commercially available. this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures.

c) Temporary power poles shall be used instead of generators where feasible.

d) Stationary noise sources shall be located as far from adjacent properties as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City of provide equivalent noise reduction.

e) The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented.

f) Delivery of materials shall observe the hours of operation described above.

g) Truck traffic should avoid residential areas to the extent possible.

Construction Traffic Noise

Construction is estimated to be approximately 16 months. Construction noise may be generated by large trucks moving materials to and from the project site. Large trucks would be necessary to deliver building materials as well as remove dump materials. Excavation, cut, and fill would be required. Grading over the entire site would consist of 32,700 cubic yards of balanced cut and fill. Based on the California Emissions Estimator Model (CalEEMod) default assumptions for this

project, the project would generate the highest number of daily trips during the demolition and construction phases. The model estimates that the project would generate up to 15 worker trips and 10 daily hauling trips (200 hauling trips over 20 days) for demolition for a total of approximately 25 daily vehicle trips during demolition. During the site preparation phase there would be approximately 18 daily worker trips. Building construction would have 222 daily worker trips and 90 daily vendor trips.

According to Implementation Measure N-I-3 of the City's General Plan, a significant permanent noise increase would occur if the project would increase noise levels at noise-sensitive receptors by 5 dBA Ldn or more. For reference, a 5 dBA Ldn noise increase would be expected if the project would triple existing traffic volumes along a roadway. Airport Way south of SR-120 eastbound ramps has approximately 17,840 average daily trips.[9] A maximum of 312 daily project construction trips (total of 222 daily worker trips and 90 daily vendor trips) would not triple the existing traffic volume per day. Therefore, construction related traffic noise would not be noticeable and would not create a significant noise impact. Implementation of the Construction Noise Management Plan would also help reduce construction traffic noise levels, as truck traffic would be routed to avoid residential areas where feasible.

Operations

Implementation of the project would create new sources of noise in the project vicinity. The major noise sources associated with the project that would potentially impact existing and future nearby residences include the following:

- Off-site traffic noise;
- Mechanical equipment (i.e., trash compactors, air conditioners, etc.);
- Gas dispensing activities;
- Restaurant and commercial retail activities (e.g., outdoor seating and dining areas, vehicle queuing, speaker systems);
- Delivery trucks activities at the loading areas (i.e., maneuvering and idling trucks, loading/unloading, and equipment noise);
- Parking areas (i.e., car door slamming, car radios, engine start-up, and car pass-by); and
- Landscape maintenance activities.

The closest sensitive receptors are located approximately 100 feet to the west. Policy N-P-4 of the City's General Plan establishes the noise level requirements as thresholds for stationary noise sources. *Table 12* limits hourly average noise levels from stationary sources to 55 dBA L_{eq} between the hours of 7:00 a.m. and 10:00 p.m. and to 45 dBA L_{eq} between the hours of 10:00 p.m. and 7:00 a.m. Further, maximum instantaneous noise levels shall not exceed 70 dBA L_{max} between the hours of 7:00 a.m. and 10:00 p.m. and 65 dBA L_{max} between the hours of 10:00 p.m. and 7:00 a.m. These thresholds shall be enforced on the property lines of the adjacent receiving uses. Further, Table 17.58.050-1 of the City's Municipal Code (*Table 13* above) limits hourly average noise levels to 60 dBA CNEL between the hours of 7:00 a.m. and 10:00 p.m. and to 50 dBA CNEL between the hours

[9] City of Manteca, *General Plan Draft EIR*, 2021.

of 10:00 p.m. and 7:00 a.m. at single family residential land uses. Table 17.58.050-2 of the Municipal Code (*Table 14* above) provides noise level corrections for Table 17.58.050-1 (*Table 13*), which include adding 15 dB to the Municipal Code thresholds for noises occurring for less than 1% of any one hour, adding 10 dB for sources occurring less than 5% of any one-hour, and adding 5 dB for source occurring less than 20% of any hour.

Traffic Noise

Implementation of the project would generate increased traffic volumes along study roadway segments. The project is expected to generate a net of 10,944 average daily trips, which would result in noise increases on project area roadways. According to Implementation Measure N-I-3 of the City's General Plan, a significant permanent noise increase would occur if the project would increase noise levels at noise-sensitive receptors by 5 dBA Ldn or more. For reference, a 5 dBA Ldn noise increase would be expected if the project would triple existing traffic volumes along a roadway. Airport Way south of SR-120 eastbound ramps has approximately 17,840 average daily trips.[10] Therefore, a maximum of 10,944 daily project trips would not triple the existing traffic volume per day. Operational related traffic noise would not be noticeable and would not create a significant noise impact.

Stationary Noise Sources

Implementation of the project would create new sources of noise in the project vicinity from mechanical equipment, truck loading areas, parking lot noise, and landscape maintenance. *Table 19: Operational Noise Levels,* shows the noise levels generated by various stationary noise sources and the resulting noise level at the nearest receiver. *Table 19* also shows the project's compliance with the General Plan Policy N-P-4, as well as the Municipal Code. Each stationary source is discussed below.

Mechanical Equipment

Regarding mechanical equipment, the project would generate stationary-source noise associated with heating, ventilation, and air conditioning (HVAC) units. HVAC units typically generate noise levels of approximately 52 dBA at 50 feet.[11] Additionally, the project would include backup generators. *Table 19* shows that mechanical equipment would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

Parking Lot and Gas Station Activities

According to the site plan, 670 parking spaces are proposed as part of the project. 38 of the 670 parking spaces would be located to the east and south of the convenience store, facing the existing residences to the south. Additionally, 14 standard fuel pumps and eight diesel pumps would also include similar noise sources as parking spaces, which would include vehicular circulation, louder engines, car alarms, door slams, and human voices. These sources typically generate noise levels ranging from 53 to 63 dBA at a distance of 50 feet. *Table 19* shows that parking lot and gas station activities would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

[10] City of Manteca, *General Plan Draft EIR*, 2021.

[11] Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, July 6, 2010.

Loading Area Noise

The project is a commercial development that would include deliveries. The primary noise associated with deliveries is the arrival and departure of trucks. Operations of the proposed project would potentially require a mixture of deliveries from vans, light trucks, and heavy-duty trucks. Normal deliveries typically occur during daytime hours. During loading and unloading activities, noise would be generated by the trucks' diesel engines, exhaust systems, and brakes during low gear shifting' braking activities; backing up toward the docks/loading areas; dropping down the dock ramps; and maneuvering away from the docks. The nearest loading area at the project site would be located approximately 280 feet away from the residential uses to the west along Atherton Drive. Typically, heavy truck operations generate a noise level of 64 dBA at a distance of 50 feet.[12] While there would be temporary noise increases during truck maneuvering and engine idling, these impacts would be of short duration and infrequent. *Table 19* shows that truck and loading area noise would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

Parking Areas

Traffic associated with parking areas is typically not of sufficient volume to exceed community noise standards, which are based on a time-averaged scale such as the CNEL scale. However, the instantaneous maximum sound levels generated by a car door slamming, engine starting up and car pass-bys may be an annoyance to adjacent noise-sensitive receptors. Parking lot noise can also be considered a "stationary" noise source. The instantaneous maximum sound levels generated by a car door slamming, engine starting up, and car pass-bys range from 53 to 61 dBA at 50 feet. Conversations in parking areas may also be an annoyance to sensitive receptors. Sound levels of speech typically range from 33 dBA at 48 feet for normal speech to 50 dBA at 50 feet for very loud speech. It should be noted that parking lot noise are instantaneous noise levels compared to noise standards in the DNL scale, which are averaged over time. As a result, actual noise levels over time resulting from parking lot activities would be far lower. *Table 19* shows that parking area noise would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

Drive-Thru Operations

The proposed project would include several drive-thru restaurants with menu boards and intercoms that would be located near the restaurant building. Project noise sources from drive-thru operations include amplified speech from the intercom, idling vehicles, and vehicles circulating along the drive-thru lane. The measured noise level associated with active drive-thru operations is 64 dBA at a distance of 20 feet. The nearest sensitive receptors (single-family residences to the west) are located within approximately 640 feet from the proposed menu board and intercom, and as close as 580 feet from the drive-thru lane/queuing area. *Table 19* shows that drive-thru operation noise would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

[12] Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, July 6, 2010.

Landscape Maintenance Activities

Development and operation of the project includes new landscaping that would require periodic maintenance. Noise generated by a gasoline-powered lawnmower is estimated to be approximately 70 dBA at a distance of five feet. Landscape maintenance activities would be 50 dBA at 50 feet away and 44.0 dBA at the closest sensitive receptor approximately 100 feet away. Maintenance activities would operate during daytime hours for brief periods of time as allowed by the City Municipal Code and would not permanently increase ambient noise levels in the project vicinity and would be consistent with activities that currently occur at the surrounding uses. *Table 19* shows that landscape maintenance noise would not exceed the City's General Plan standards in Policy N-P-4 and Section 17.58.050 of the Municipal Code.

Summary

As shown in *Table 19*, stationary sources would not exceed the Policy N-P-4 of the City's General Plan or Section 17.58.050 of the Municipal Code at the nearest residential uses. Additionally, noise levels would be further attenuated by intervening terrain and structures and were not accounted for in the noise calculations in *Table 19*. Therefore, operational noise impacts associated with on-site activities would be less than significant.

Table 19: Operational Noise Levels

Nearest Land Use	Distance (feet)[1]	Reference Level at 50 ft (dBA)	Section 17.58.050 of the Municipal Code			Policy N-P-4			
			Noise Level at Receiver	Exterior Noise Standard (L_{eq})	Exceed Threshold	Noise Level at Receiver	Exterior Noise Standard (L_{eq})	Exterior Noise Standard (L_{max})	Exceed Threshold
Mechanical Equipment									
Residences (West)	215	52 dBA[2]	39.3 dBA	60 dBA	NO	39.3 dBA	50 dBA	70 dBA	NO
Residences (South)	260		37.7 dBA		NO	37.7 dBA			NO
Loading Area									
Residences (West)	280	64 dBA[2]	49.0 dBA	60 dBA	NO	49.0 dBA	50 dBA	70 dBA	NO
Residences (South)	315		48.0 dBA		NO	48.0 dBA			NO
Parking Area/Gas Dispensing Activities									
Residences (West)	185	61 dBA[3]	49.6 dBA	60 dBA	NO	49.6 dBA	50 dBA	70 dBA	NO
Residences (South)	210		48.5 dBA		NO	48.5 dBA			NO
Drive-Thru Operations									
Residences (West)	580	56 dBA[4]	45.9 dBA	60 dBA	NO	45.9 dBA	50 dBA	70 dBA	NO
Residences (South)	580		45.3 dBA		NO	45.3 dBA			NO
Landscape Maintenance									
Residences (West)	100	61 dBA[5]	34.7 dBA	60 dBA	NO	34.7 dBA	50 dBA	70 dBA	NO
Residences (South)	100		34.7 dBA		NO	34.7 dBA			NO

1. The distance is from the location of the operational noise source to the sensitive receptor property line.
2. Elliott H. Berger, Rick Neitzel, and Cynthia A. Kladden, *Noise Navigator Sound Level Database with Over 1700 Measurement Values*, July 6, 2010.
3. Kariel, H. G., *Noise in Rural Recreational Environments*, Canadian Acoustics 19(5), 3-10, 1991.
4. Drive-thru noise sample collected by Kimley-Horn on August 17, 2018.
5. U.S. EPA, *Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances*, 1971.
6. Table 17.58.050-1 of the City's Municipal Code limits hourly average noise levels to 60 dBA L_{eq} between the hours of 7:00 a.m. and 10:00 p.m. and to 50 dBA L_{eq} between the hours of 10:00 p.m. and 7:00 a.m. at single family residential land uses.
7. Policy N-P-4 of the City's General Plan establishes the noise level requirements as thresholds for stationary noise sources. Municipal Code Table 9-2 limits hourly average noise levels to 50 dBA L_{eq} between the hours of 7:00 a.m. and 10:00 p.m. and to 45 dBA L_{eq} between the hours of 10:00 p.m. and 7:00 a.m. Further, maximum instantaneous noise levels shall not exceed 70 dBA L_{max} between the hours of 7:00 a.m. and 10:00 p.m. and 65 dBA L_{max} between the hours of 10:00 p.m. and 7:00 a.m.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact.

Construction

Increases in groundborne vibration levels attributable to the project would be primarily associated with construction-related activities. Construction on the project site would have the potential to result in varying degrees of temporary groundborne vibration, depending on the specific construction equipment used and the operations involved. Ground vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. The effect on buildings located in the vicinity of the construction site often varies depending on soil type, ground strata, and construction characteristics of the receiver building(s). The results from vibration can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibration at moderate levels, to slight damage at the highest levels. Groundborne vibrations from construction activities rarely reach levels that damage structures.

The types of construction vibration impacts include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can vary substantially depending on soil composition and underground geological layer between vibration source and receiver.

The FTA has published standard vibration velocities for construction equipment operations. In general, depending on the building category of the nearest buildings adjacent to the potential pile driving area, the potential construction vibration damage criteria vary. For example, for a building constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.50-inch per second (in/sec) peak particle velocity (PPV) is considered safe and would not result in any construction vibration damage.

Table 20: Typical Construction Equipment Vibration Levels*,* lists vibration levels at 25 feet, 50 feet, and 75 feet for typical construction equipment. Groundborne vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance. As indicated in *Table 20*, based on FTA data, vibration velocities from typical heavy construction equipment operations that would be used during project construction range from 0.003 to 0.089 in/sec PPV at 25 feet from the source of activity.

Table 20: Typical Construction Equipment Vibration Levels

Equipment	Peak Particle Velocity At 25 feet (in/sec)	Peak Particle Velocity At 50 feet (in/sec)	Peak Particle Velocity At 75 feet (in/sec)
Large Bulldozer	0.089	0.032	0.017
Loaded Trucks	0.089	0.032	0.017
Rock Breaker	0.076	0.027	0.015
Jackhammer	0.035	0.012	0.007
Small Bulldozer/Tractors	0.003	0.001	0.001
1. Calculated using the following formula: PPVequip = PPVref x (25/D)1.5, where: PPVequip = the peak particle velocity in in/sec of the equipment adjusted for the distance; PPVref = the reference vibration level in in/sec from Table 7-4 of the Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, 2018; D = the distance from the equipment to the receiver.			
Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment Manual, September 2018.			

As shown in *Table 20,* the highest vibration levels are achieved with the large bulldozer operations. This construction activity is expected to take place during grading. The nearest structure is approximately 100 feet from the active construction zone. As indicated in *Table 20*, construction vibration levels at the nearest sensitive receptors (100 feet away) would not exceed 0.017 in/sec PPV and/or the FTA's 0.20 PPV threshold. In addition, construction activities would occur throughout the project site and would not be concentrated at the point closest to the nearest structure. Therefore, vibration impacts associated with the project would be less than significant.

Operations

The project would not generate groundborne vibration that could be felt at surrounding uses. Project operations would not involve railroads or substantial heavy truck operations, and therefore would not result in vibration impacts at surrounding uses. As a result, impacts from vibration associated with project operation would be less than significant.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Less Than Significant Impact. The nearest airport to the project site is the Stockton Metropolitan Airport located approximately 7.7 miles north of the project site. The project site lies outside of the CNEL noise contours shown in the Stockton Metropolitan Airport Land Use Compatibility Plan Update report published in May 2016 and amended in February 2018.[13] Aircraft-related noise at the project site would not substantially increase ambient noise levels. Exterior noise levels resulting from aircraft would be compatible with the proposed project. By ensuring compliance with the City's normally acceptable noise level standards, interior noise levels would also be considered acceptable with aircraft noise. Therefore, the project would not expose people residing or working in the project area to excessive airport- or airstrip-related noise levels and no mitigation is required.

[13] San Joaquin County's Aviation System Stockton Metropolitan Airport, *Airport Land Use Compatibility Plan Update for Stockton Metropolitan Airport,* May 2016.

Cumulative Impacts

Cumulative Construction Noise

The project's construction activities, when properly mitigated, would not result in a substantial temporary increase in ambient noise levels. The City limits construction to the hours of 7:00 a.m. to 7:00 p.m. on Monday through Friday. The project would contribute to other proximate construction noise impacts if construction activities were conducted concurrently. However, based on the noise analysis above, the project's construction-related noise impacts would be less than significant following compliance with local regulations and the Construction Noise Management Plan outlined in this study.

Construction activities at other planned and approved projects would be required to take place during daytime hours, and the City and project applicants would be required to evaluate construction noise impacts and implement mitigation, if necessary, to minimize noise impacts. Each project would be required to comply with the applicable City of Manteca Municipal Code limitations on allowable hours of construction. Therefore, project construction would not contribute to cumulative impacts and impacts in this regard are not cumulatively considerable.

Cumulative Operational Noise

Cumulative noise impacts describe how much noise levels are projected to increase over existing conditions with the development of the project and other foreseeable projects. Cumulative noise impacts would occur primarily as a result of increased traffic on local roadways due to buildout of the project and other projects in the vicinity. However, noise from generators and other stationary sources could also generate cumulative noise levels.

Stationary Noise

As discussed above, impacts from the project's operations would be less than significant. Due to site distance, intervening land uses, and the fact that noise dissipates as it travels away from its source, noise impacts from on-site activities and other stationary sources would be limited to the project site and vicinity. No known past, present, or reasonably foreseeable projects would compound or increase the operational noise levels generated by the project. Thus, cumulative operational noise impacts from related projects, in conjunction with project-specific noise impacts, would not be cumulatively significant.

Traffic Noise

A project's contribution to a cumulative traffic noise increase would be considered significant when the combined effect exceeds perception level (i.e., auditory level increase) threshold. A described above, implementation of the project would generate increased traffic volumes along study roadway segments. The project is expected to generate a net of 10,944 average daily trips, which would result in noise increases on project area roadways. Airport Way south of SR-120 eastbound ramps has approximately 17,840 average daily trips.[14] Therefore, a maximum of 10,944 daily project trips would not triple the existing traffic volume per day. Operational related traffic noise would not be noticeable and would not create a significant noise impact

5.14 POPULATION AND HOUSING

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
POPULATION AND HOUSING. Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			**X**	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?			**X**	

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less Than Significant Impact. The project site is currently zoned general commercial and designated general commercial in the General Plan. The proposed project does not propose any residential uses that could generate new residents within the City. The proposed project includes a hotel, retail shops, a grocery store, and gas station. The hotel would not support permeant housing and wouldn't induce substantial population growth. The retail shops, grocery store, and gas station would serve the existing population in the surrounding area and would not substantially induce unplanned population growth. In addition, project construction and operation would create new employment opportunities. The workers are anticipated to come from within the City or surrounding jurisdictions and commute daily to the site. Although it is possible that demand for workers could induce some people to move to the area this is anticipated to be a small number relative to total demand for construction workers and permanent employees. It is anticipated that with the recent and continuing growth of the City, there are adequate numbers of people already residing in the area to work on or at The Crossings site. Therefore, impacts from the proposed project to unplanned population growth are less than significant.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

Less than significant Impact. As mentioned above, the project site is not zoned or designated in the General plan to be used for residential. On a portion of the project site is the Sterling Home Showcase, this is a retailer with an existing display center located on the project site. The proposed project would require demolition of 11 showcase structures, these building are not used for permanent or temporary housing, and there are no people residing in the buildings on the project site. There are no other housing units, or structures on the project site, therefore the project would

not displace housing or people, or require construction of replacement housing elsewhere. Therefore, impacts would be less than significant.

Cumulative Impacts

Overall, the project site would serve the exiting demand from the population within the local vicinity. The proposed Project would be consistent with the planned land uses in the City's General Plan and the population and employment projections for the City and the region as a whole. Impacts from cumulative growth are considered in the context of their consistency with these local and regional planning efforts. Therefore, the proposed Project would not cause a cumulatively considerable impact on population and housing and no mitigation is required.

5.15 PUBLIC SERVICES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
PUBLIC SERVICES. Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i) Fire protection?			**X**	
ii) Police protection?			**X**	
iii) Schools?			**X**	
iv) Parks?			**X**	
v) Other public facilities?			**X**	

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

i) Fire protection?

Less Than Significant Impact. There are 5 Fire Stations located within the City of Manteca. Fire Station 242 at 1154 S. Union Road is the closest to the project site, located 1.2 miles northeast. The City Manteca's Fire Department will review the development plans for the Project to ensure the development adheres to the Fire Departments requirements and the Project would include the payment of standard City development impact fees, which include a fee for fire protection service impacts. The nominal population growth associated with the project would incrementally increase the demand for fire protection and emergency medical services to the project site. The project falls within the existing service area for the fire department and would not have a significant effect on response times. Additionally, the project does not propose, and would not create a need for, new/physically altered fire protection facilities, thus, less than significant environmental impacts

would occur in this regard. Finally, the project would be constructed to meet the latest CBC requirements and the project is subject to fire suppression development impact fees and other standards and conditions required by the City and County Fire. As such, a less than significant impact would occur.

ii) Police protection?

Less Than Significant Impact. The City of Manteca's Police Department is under contract to provide police protection and public safety services within the city, including the Project site. The Manteca Police Department is located approximately 1.8 miles northeast from the project site. The nominal population growth associated with the project would incrementally increase the demand for police protection services to the project site. However, the proposed mixed-use development would not result in any unique or more extensive crime problems that cannot be handled with the existing level of police resources. Additionally, the project would not have a significant impact on police response times, because the project site is within the Police's existing service area. Therefore, project impacts concerning police protection services would be less than significant and no mitigation is required. Additionally, the project does not propose, and would not create a need for, new/physically altered police protection facilities; thus, less than significant environmental impacts would occur in this regard.

iii) Schools?

Less Than Significant Impact. The following schools are in the local vicinity of the project site; Sierra High School approximately 1 mile to the northeast, Veritas School approximately 1.3 miles east, Sequoia Elementary School approximately 1.7 miles northeast, and Brock Elliot Elementary approximately 0.9 miles northeast. The nominal population growth due to the proposed project would not cause any significant increase of demand on the above listed schools in the area. According to Government Code Section 65996, the payment of development fees authorized by SB 50 are deemed to be full and complete school facilities mitigation. The Project would be required to pay mandated development fees for residential buildings. As such, impacts are anticipated to be less than significant impact.

iv) Parks?

Less Than Significant Impact. Parks in the local vicinity to the project site include, Bella Vista Park approximately 0.1 miles, Dutra Estates Park approximately 0.5 miles, Dutra Southeast Park approximately 0.3 miles, and Manteca Watershed by Costco located on the other side of SR 120 approximately 0.1 miles. Due to The Crossings proposed uses it is not anticipated that the project would create additional need for recreational facilities. The project itself does propose a picnic area/pocket park that customers could use. The project overall would only result in nominal population growth. Although the project would bring new residents to the general area, the use of surrounding parks and other facilities has been accounted for in the General Plan. The proposed mixed-use development would not significantly increase the demand of such services and a less than significant impact would occur.

v) Other public facilities?

Less Than Significant Impact. Other public facilities in the area such as health care, production, commercial, retail, residential, etc. would not be adversely impacted because the proposed Project is consistent with the City of Manteca and is consistent with City Zoning Maps. Therefore, impacts would be less than significant.

Cumulative Impacts

The Project is consistent with current General Plan and Zoning designations, the Project would not result in substantial incremental effects to public services or facilities that could be compounded or increased when considered together with similar effects from other past, present, and reasonably foreseeable Projects. The Project alone would not result in cumulatively considerable impacts to public services or facilities.

5.16 RECREATION

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
RECREATION.				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			**X**	
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?			**X**	

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less Than Significant Impact. The closest existing neighborhood park is Bella Vista Park at 1580 Bella Terra Dr, Manteca, located in residential community just 0.1 miles south of the project site. Use to the nature of commercial uses proposed on The Crossings it is not likely to generate an increase in population that would use existing recreational facilities in the area. The proposed commercial uses on the Crossings project site include, a car wash, gas station, restaurants (sit down and drive through), hotel, grocery, etc. These uses do not lead to a population that would increase use in the surrounding area, such that substantial physical deterioration of recreational facilities would occur or be accelerated. Therefore, the project would have a less than significant impact.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less Than Significant Impact. The Crossings project does propose a picnic area/pocket park in the center of the site along the northern boundary between shops G and F. The pocket park would be accessible by interior site walkways to encourage pedestrian activity within the multi-use commercial development. The park would be approximately 6,500 square feet and include a seating area with landscaping for passive recreational use. The proposed pocket park would not have a significant adverse physical effect on the environment, and therefore, potential impacts would be less than significant.

Cumulative Impacts

Development of the proposed Project is not anticipated to create a significant cumulative increase of recreational facilities, as the picnic area/pocket park is a minor area within The Crossings site

development footprint. The project additionally does not impact any existing recreation facilities and would create a substantial population increase to impact existing recreational facilities. Therefore, no cumulative impacts on recreational facilities would occur.

5.17 TRANSPORTATION

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
TRANSPORTATION. Would the project:				
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?		**X**		
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			**X**	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			**X**	
d) Result in inadequate emergency access?			**X**	

a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less Than Significant With Mitigation Incorporated. Airport Way is a two-lane arterial road that passes through residential and agricultural uses. It is planned to be a four-lane facility. The Draft City of Manteca General Plan proposes a class I multi-use path along Airport Way near the SR 120 interchange. W. Atherton Dr. is a four-lane collector road that runs south of and parallel to SR 120. There is a class I bike path parallel to W. Atherton Drive. The roadway currently has sidewalks on the south side of the roadway where a single-family residential development is located. No marked crosswalks are available in the vicinity of the project. Manteca Transit Route 4 loop service runs along Airport Way from W. Woodward Ave. connecting Manteca Transit Center on Main St. The closest bus stop is located near the intersection of Airport Way and Peregrine St. within a quarter-mile of the project site. The project proposes six driveways along W. Atherton Drive and one right-in/right-out access point on Airport Way. The proposed site would utilize the existing sidewalk facility available on W. Atherton Drive and Airport Way and also provide pedestrian walkways to access the stores and parking spots.

A Preliminary Traffic Study was conducted and summarized in a technical memorandum prepared by TJKM. The study provides an overview on trip generation, site access, circulation, and potential impacts on nearby intersections. The report focuses on two study intersections; 1) the intersection at W. Atherton Dr and Airport Way and 2) the intersection at W. Atherton Way and Langum Way. The study multiple scenarios in the AM and PM peak hours to determine the potential project impacts associated with traffic:

- Existing Conditions
- Existing Conditions Plus Project Conditions
- Mitigated Conditions

Analysis of environmental impacts at the study intersections were based on the concept of Level of Service (LOS). LOS is measured on a scale from A to F, with A representing the best traffic conditions and F the worst. The City of Manteca's General Plan establishes an LOS Standard that will guide street improvements in the City while meeting the City's goals of developing. an efficient circulation system that promotes travel via other modes. The General Plan requires a vehicular LOS of D or better at all streets and intersections, except in the Downtown area where right-of-way is limited, pedestrian, bicycle, and transit mobility are most important and vehicular LOS is not a consideration (City of Manteca, 2011). See *Table 21, Intersection LOS Analysis.*

Table 21: Intersection LOS Analysis

Study Intersection	Control	Peak Hour	Existing Condition LOS	Existing plus Project Conditions LOS
W. Atherton Dr. and Airport Way	All-Way Stop	A.M. P.M.	C E	E F
	Signal	A.M. P.M.		A B
W. Atherton Dr. and Langum Way	One-Way Stop	A.M. P.M.	A A	B C
	Signal	A.M. P.M.		A A

The report concludes that the study intersections, with the installation of traffic signals, both intersections function with an acceptable LOS. The project includes the construction of both traffic signals thus, the project is not expected to create any significant delays in levels of service at the study intersections or on pedestrian and bicycle access and circulation. Therefore, the proposed project would have a less than significant impact and no mitigation measures are required.

However, during construction, the predominant vehicle routes (for haul trucks) would follow either Airport Way from SR 120 and then turn onto W. Atherton Drive. The presence of large and slow-moving vehicles and construction equipment on streets in the vicinity of the project site may result

in potential hazards to motorists. Additionally, project construction activities may result in temporary lane closures along Airport Way and W. Atherton Drive.

Accordingly, mitigation is proposed requiring the project applicant to implement a Construction Traffic Control Plan during construction activities to minimize impacts on surrounding roadways and nearby parking areas, as provided under Mitigation Measure MM TRANS-1. With implementation of MM TRANS-1, potential impacts are considered less than significant.

MM TRANS-1: Prior to issuance of grading permits, the applicant shall submit a Construction Traffic Control Plan to the City of Manteca for review and approval. The plan shall identify the timing and routing of all major construction equipment and trucking to avoid potential traffic congestion and delays on the local street network. The plan shall encourage the use of SR 120, Airport Way, and W. Atherton Drive wherever practical. Anticipated temporary road closures should be identified, along with safety measures and detours. If necessary, construction equipment and materials deliveries shall be limited to off-peak hours to avoid conflicts with local traffic circulation. The plan shall also identify suitable locations for construction worker parking.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less Than Significant Impact. CEQA Guidelines Section 15064.3 states that "vehicle miles traveled" (VMT) is the preferred metric evaluating transportation impacts, rather than LOS. VMT measures the total miles traveled by vehicles generated by a project. While LOS focuses on motor vehicle traffic, VMT accounts for the total environmental impact of a project on transportation, including use of travel modes such as buses or bicycles. Section 15064.3(b) sets forth the criteria for analyzing transportation impacts using the preferred VMT metric.

SB 743 is part of a long-standing policy effort by the California legislature to improve California's sustainability and reduce greenhouse gas emissions through denser infill development, a reduction in single occupancy vehicles, improved mass transit, and other actions. Recognizing that the current environmental analysis techniques are, at times, encouraging development that is inconsistent with this vision, the legislature has taken the extraordinary step to change the basis of environmental analysis for transportation impacts from Level of Service (LOS) to Vehicle Miles Travelled (VMT). VMT is understood to be a good proxy for evaluating Greenhouse Gas (GHG) and other transportation related impacts that the State is actively trying to address. While the use of VMT to determine significant transportation, impacts has only been considered recently, it is by no means a new performance metric and has long been used as a basis for transportation system evaluations and as an important metric for evaluating the performance of Travel Demand Models.

In January 2019, the Natural Resources Agency finalized updates to the CEQA Guidelines including the incorporation of SB 743 modifications. The Guidelines' changes were approved by the Office of Administrative Law and are now in effect. Specific to SB 743, Section 15064.3(c) states, "A lead agency may elect to be governed by the provisions of this section immediately. The provisions apply statewide as of July 1, 2020."

To help aid lead agencies with SB 743 implementation, the Governor's Office of Planning and Research (OPR) produced the Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018) that provides guidance about the variety of implementation questions they face with respect to shifting to a VMT metric. Key guidance from this document includes:

- VMT is the most appropriate metric to evaluate a project's transportation impact.
- OPR recommends tour- and trip-based travel models to estimate VMT, but ultimately defers to local agencies to determine the appropriate tools.
- OPR recommends measuring VMT for residential and office projects on a "per rate" basis.
- OPR states that by adding retail opportunities into the urban fabric and thereby improving retail destination proximity, local-serving retail development tends to shorten trips and reduce VMT. Generally, retail development including stores smaller than 50,000 square feet might be considered local serving.
- OPR recommends that where a project replaces existing VMT-generating land uses, if the replacement leads to a net overall decrease in VMT, the project would lead to a less-than-significant transportation impact. If the project leads to a net overall increase in VMT, then the thresholds described above should apply.
- Lead agencies have the discretion to set or apply their own significance thresholds.

The City of Manteca's VMT thresholds consider the VMT performance of residential and non-residential components of a project separately, using the efficiency metrics of VMT per capita and VMT per employee, respectively. For retail components of a project, or other customer-focused uses, the citywide VMT change is analyzed. The City of Manteca's VMT thresholds of significance are summarized below for each of these components:

- Residential – 15% below baseline (existing) average VMT per Capita
- Employment-based land uses (e.g., office) – 15% below baseline (existing) average VMT per Employee
- Customer-based non-residential land uses (e.g., retail) – No net increase in VMT

A Vehicle Miles Traveled (VMT) Assessment was prepared for The Crossings by Kimley-Horn in 2022. The study makes the following assumptions for the purposes of SB 743 analysis and to determine significance.

Retail less *than* 50,000 square feet (Shops A-H and Maverik Gas Station)

The Governor's Office of Planning and Research's *Technical Advisory on Evaluating Transportation Impacts in CEQA*[15] specifically addresses some of the key issues surrounding how a local-serving retail store should be evaluated in terms of its VMT impact. As described, the threshold for

[15] *Technical Advisory on Evaluating Transportation Impacts in CEQA*. Governor's Office of Planning and Research. December 2018. Page 16.

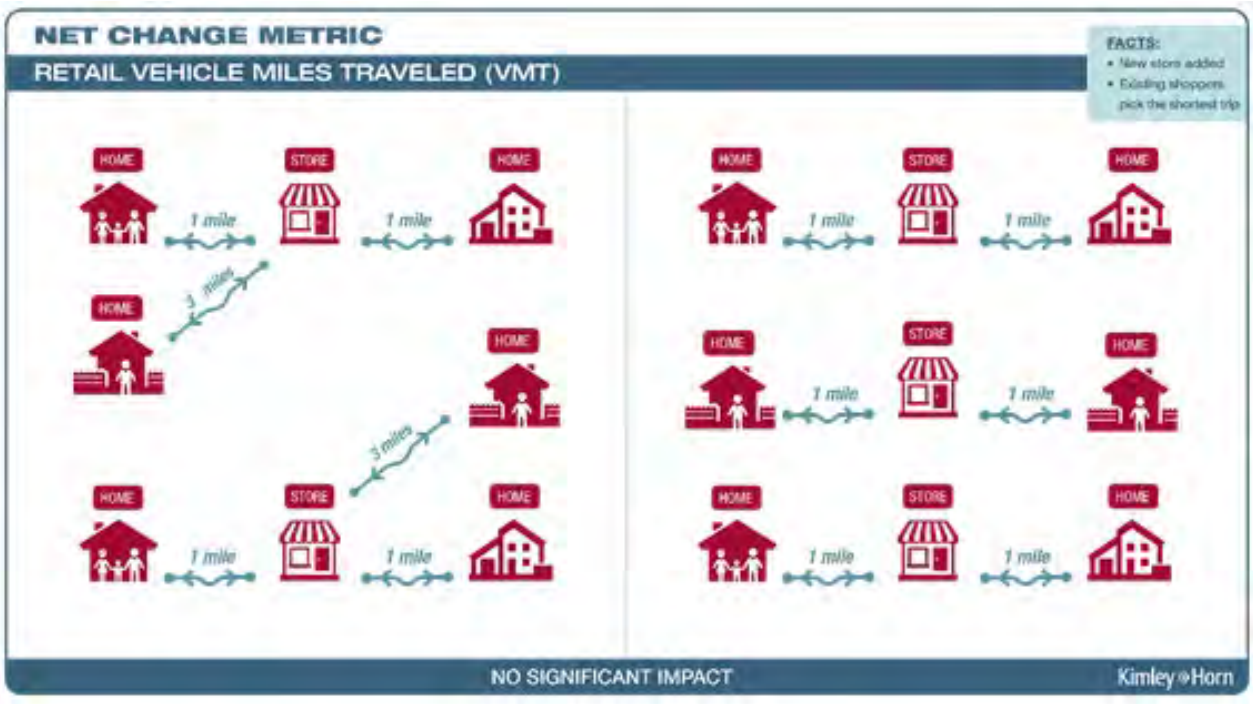
significance for retail uses is "a net increase." This means that if a proposed retail use results in additional VMT, it would result in a finding of significance.

Local-serving retail primarily serves preexisting needs (i.e., it does not generate new trips because it meets existing demand). Because of this, local-serving retail uses can be presumed to reduce trip lengths when a new store is proposed. Essentially, the assumption is that someone will travel to a newly constructed local-serving store because of its proximity, rather than that the proposed retail store is fulfilling an unmet need (i.e., the person had an existing need that was met by the retail located farther away and is now traveling to the new retail use because it is closer to the person's origin location). This results in a trip on the roadway network becoming shorter, rather than adding a new trip to the roadway network, which would result in an impact on the overall transportation system. Conversely, residential and office land uses often drive new trips, given that they introduce new participants to the transportation system.

The *Technical Advisory on Evaluating Transportation Impacts in CEQA* provides for a general threshold of 50,000 square feet per establishment as an indicator as to whether a retail store can be considered local-serving or not.

Exhibit 1 visually demonstrates the basis for this finding. Introducing a new retail store often has the effect of redistributing existing customer trips in a manner that reduces average trip lengths, thereby resulting in a VMT reduction (i.e., trip segments that were 3 miles before the new retail store are reduced to 1 mile with the addition of the new retail store). Therefore, it can be presumed that VMT related *impacts* from the proposed Shops A-H and Maverik Gas Station would be less than significant.

Exhibit 1: Vehicle Miles Traveled (VMT) by Land Use



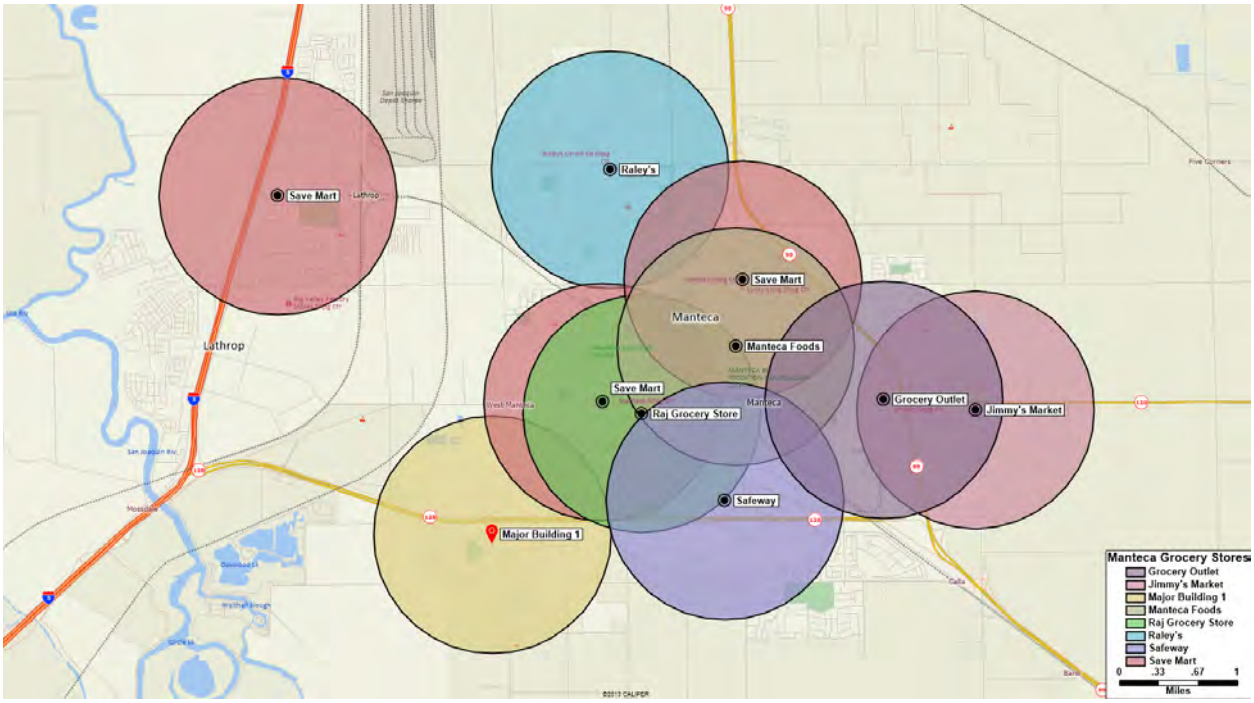
Retail greater than 50,000 square feet (Major Building 1)

Similar to other retail stores, grocery stores primarily serve pre-existing needs (it is assumed Major Building 1 would be a grocery store). The addition of a grocery store does not truly generate new trips that are added to the transportation system, it shortens existing trips. As such, this means that the impact to the transportation system would be reduced by the introduction of a new grocery store that is primarily local in its service focus.

As noted previously, the Technical Advisory provides for a general threshold of 50,000 square-feet as an indicator as to whether a commercial use can be considered local serving or not. As described above, this is an important consideration in terms of a VMT-related significant impact determination. While the proposed Major Building 1 would be 55,000 square-feet, 5,000 square-feet over the 50,000 square-foot indicator, with the lack of grocery stores in the area surrounding the proposed project, it is clearly local serving. The only competing option in the immediate area of the proposed project is the Costco, located on the opposite side of SR-120 to the north. The Costco would not be considered local-serving as it is approximately 150,000 square-feet, requires a membership which can be exclusionary to the general public, and has a customer base that is regional in nature.

The Technical Advisory also provides that a less than significant finding can be further substantiated by showing the proximity of other similar uses. Although a specific market study is not being provided as part of this memorandum, a map showing the proximity of other similar grocery stores is provided as ***Exhibit 2***. A one-mile buffer was placed around the nine existing grocery stores in the area, as well as the proposed project, to visually represent the lack of overlapping service area between the proposed project and the existing stores. As shown *in* ***Exhibit 2*****,** the proposed project, identified with a red icon, labeled “Major Building 1”, and has beige buffer surrounding it, would reduce trip lengths by “adding grocery shopping opportunities into the local area, further improving retail destination proximity”. Accordingly, it is appropriate that the proposed project development be presumed, in accordance with the Technical Advisory, that it would result in a VMT reduction and support the goals of SB 743. Overall, Major Building 1 can shorten existing trip lengths, which would result in a net decrease in VMT. Therefore, it is presumed that the VMT-related impact of Major Building 1 would be less than significant.

Exhibit 2: Proximity of Major Building 1 to Existing Grocery Stores



Hotel

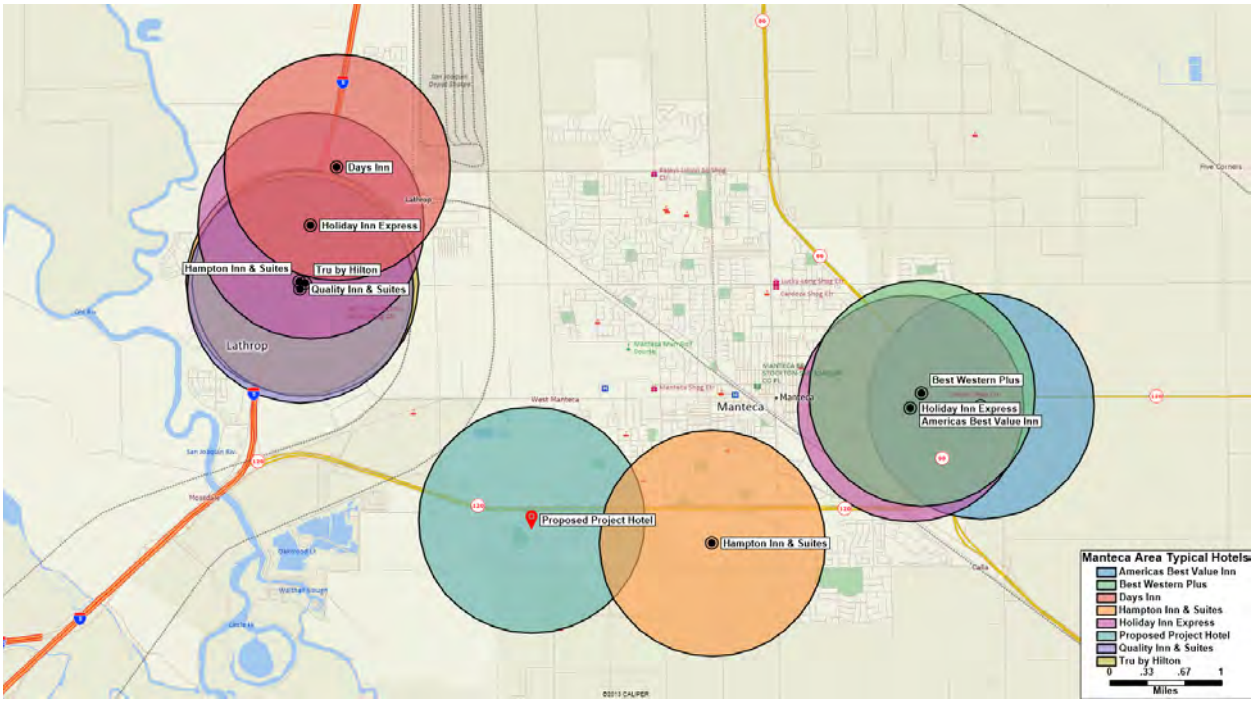
Similar to retail and grocery stores, typical hotels such as the proposed project most often serve pre-existing needs when their client-base is staying at the hotel not because of the amenities, but because of the area surrounding the hotel. Alternatively, destination hotels do not serve pre-existing needs as they offer special amenities that aren't offered elsewhere, and guests typically spend the majority of their time on the destination hotel property. The Great Wolf Lodge Manteca, which is connected to the Great Wolf Lodge Water Park is an example of a destination hotel.

The hotel component of the proposed project would be a typical hotel and it is likely that guests are choosing the hotel because they are traveling to Manteca for a variety of reasons such as business in the area, visiting family and friends, attending baseball tournaments at Big League Dreams Manteca, or visiting the water park across SR-120.

Typical hotels most often they can be presumed to reduce trip lengths when a new hotel is introduced within a cluster of existing hotels located near a local destination or attraction. Essentially, a trip to a hotel is expected to occur due to someone planning to travel to Manteca, or the immediate area, but the proximity of the hotel to the surrounding attractions would drive the length of that trip and the resultant impact to the overall transportation system. Most often this means that the impact to the transportation system would be negligible or reduced by the introduction of a new hotel to an area where people are already traveling and planning on staying unless the hotel significantly effects the local supply of rooms or introduces a significant new attraction.

As with Major Building 1, while a specific market study for the hotel component of the proposed project is not being provided as part of this memorandum, a map showing the proximity of other similar hotels is provided as ***Exhibit 3: Proximity of Project Hotel to Existing Hotels***. A one-mile buffer was placed around the nine existing hotels in the area, as well as the proposed project, to visually represent the lack of overlapping service area between the proposed project and the existing hotels. As shown in ***Exhibit 3***, the proposed project, identified with a red icon, labeled "Proposed Project Hotel", and has teal buffer surrounding it, would reduce trip lengths by "adding hotel opportunities into the local area, further improving hotel destination proximity". Accordingly, it is appropriate that the proposed project development be presumed, in accordance with the Technical Advisory, that it would result in a VMT reduction and support the goals of SB 743. Therefore, overall the proposed hotel would result in a net decrease in VMT and have a less than significant impact.

Exhibit 3: Proximity of Project Hotel to Existing Hotels



Therefore, all components of the proposed project would result in shorter trips and therefore lower VMT. The project would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) and impacts would be less than significant.

c) *Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

Less Than Significant Impact. Within the project site the proposed drive aisles would be of adequate size to provide sufficient space to accommodate standard auto traffic and, where needed, heavy vehicles. The service station is expected to serve both standard vehicles and trucks. Trucks are expected to use the first driveway off of W Atherton Dr to enter the fueling station and

exit through the driveway at the intersection with Langum Way, where they would be able to make a left turn to travel east toward Airport Way. The hotel driveway aisles would accommodate two cars driven parallel to each other. Enough space would be provided behind the major store for loading trucks to access the facility. The loading trucks for the major store/Grocery store would use the final driveway before the proposed hotel for entry. Since the trucks are expected to arrive/depart at off-peak hours, it won't impact the pedestrians accessing the major store. Three restaurants/coffee shops with drive-through windows would have enough space to queue outside the facility. The planned coffee shop is designed with double lane storage to accommodate a higher volume of queuing. The proposed project is not anticipated to increase hazards due to geometric design or incompatible use and impacts would be less than significant.

d) Result in inadequate emergency access?

Less Than Significant Impact. Emergency vehicle access would be maintained at all times throughout construction activities, in accordance with the City's routine/standard construction specifications. Further, construction activities would not impede emergency access to any local roadways or surrounding properties. All driveways and internal site access roads would be constructed to accommodate all emergency vehicles and personnel. Further emergency access discussion is located within Section 5.9, Hazards. Project impacts regarding emergency access would be less than significant.

Cumulative Impacts

The project would improve LOS at two intersections with the construction of signals and reduce VMT by shortening trips. Therefore, the proposed project would not result in incremental effects to transportation that could be compounded or increased when considered together with similar effects from other past, present, and reasonably foreseeable probable future projects. Potential impacts are not cumulatively considerable and less than significant.

5.18 TRIBAL CULTURAL RESOURCES

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
TRIBAL CULTURAL RESOURCES. Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: i) Listed or eligible for listing in the California:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?		**X**		
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?		**X**		

a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: i) Listed or eligible for listing in the California:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

And,

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in

subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Less Than Significant With Mitigation Incorporated. A Cultural Resources Study for The Crossings Project site was conducted by Rincon Consultants, Inc. on February 2022. As previously mentioned, there were no historical resources found on-site, this is substantiated through a CHRIS records search, background research, review of historical topographic and aerial imagery, a Sacred Land File Search, and a pedestrian survey. However, the absence of substantial surface prehistoric or historic-period archeological remains within the project vicinity and the existing level of disturbance does not preclude the possibility of subsurface resources. Though the circumstances would present a low possibility, the following mitigation measure (MM) would reduce impacts in the unanticipated discovery of cultural resources during construction. With the implementation of MM CUL-1 and MM CUL-2, impacts would be less than significant.

The City has notified California Native American tribes who have formally requested notification on CEQA projects under Assembly Bill 52. These notification letters were distributed to identified Native American Tribes on November 15, 2021, with no response at this time. These letters are on file at the City of Manteca Community Development Department.

Impacts on tribal cultural resources are considered less than significant with mitigation.

Cumulative Impacts

The combination of the proposed project as well as past, present, and reasonably foreseeable projects in the local area would be required to comply with all applicable State, federal, and County and local regulations concerning preservation, salvage, or handling of cultural and paleontological resources, including compliance with required mitigation. Similar to the proposed project, these projects also would be required to implement and conform to mitigation measures, which would be likely to reduce impacts to less than significant. Although in the process of development, some known or unknown resources may be lost, it is not anticipated that these impacts would be cumulatively considerable. In addition, implementation of Mitigation Measures **MM CUL-1** and **MM CUL-2**, would reduce project-specific impacts to a less than significant level. Therefore, the project's contribution to cumulative impacts would be less than significant.

5.19 UTILITIES AND SERVICE SYSTEMS

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
UTILITIES AND SERVICE SYSTEMS. Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			**X**	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			**X**	
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			**X**	
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			**X**	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			**X**	

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

And,

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. The proposed project would connect to the City's existing water and sanitary sewer system. As part of this connection, the proposed project would not be required to

increase the size of existing water and sanitary sewer lines in order to serve the proposed project. The proposed project would be consistent with planned growth in the General Plan, in that it would be consistent with the type of development planned for this area in the General Plan. The City has sufficient capacity in its domestic water and sanitary sewer systems to accommodate development within the proposed project. Thus, the project would not require the extension of sewer mains, water lines, storm water drainage lines, or natural gas pipelines to the project site, as these lines are already available in W Atherton Dr. Only connecting lines from the project site to these existing facilities would be required. Electrical and telecommunication lines are available in the project vicinity and can be extended to the project site as necessary. The project does not propose the relocation of any existing utility lines or facilities. Project impacts would be less than significant.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less Than Significant Impact. In 2016, the City adopted the City of Manteca 2015 UWMP, as required by the Urban Water Management Planning Act of 1983. The UWMP serves as a long-term planning document for sustainable water supply, and includes a description of water sources, historical and projected water use, and a comparison of water supply and demand during normal and dry years. The UWMP has identified regional water demand in normal, single dry, and multiple dry years in five-year increments. Water demand projections were based on buildout of the City's General Plan. The UWMP indicates that the City would have up to approximately 30,680 acre-feet per year (AFY) for 2025 and 30,990 AFY for 2030 in a normal year (City of Manteca, 2016). *Table 22* and *Table 23* show the projected water supply and demand totals during a normal year and during a single dry year, respectively. *Table 24* shows the projected supply and demand totals under multiple dry year conditions for the first, second, and third years.

Table 22: Water Supply and Demand – Normal Year (AFY)

	2020	2025	2030	2035	2040
Supply Totals	23,100	30,680	30,990	31,390	31,250
Demand Totals	20,410	23,320	25,060	28,270	31,290
Difference	2,690	7,360	5,930	3,120	(-)40

NOTES:

(-) indicates a negative value

SOURCE: City of Manteca 2015 Urban Water Management Plan, July 2016

Table 23: Water Supply and Demand – Single Dry Year (AFY)

	2020	2025	2030	2035	2040
Supply Totals	20,220	26,050	26,360	26,760	26,620
Demand Totals	20,410	23,320	25,060	28,270	31,290
Difference	(-)190	2,730	1,300	(-)1,510	(-)4,670

NOTES:

(-) indicates a negative value

SOURCE: City of Manteca 2015 Urban Water Management Plan, July 2016

Table 24: Water Supply and Demand – Multiple Dry Years (AFY)

		2020	2025	2030	2035	2040
1st Year	Supply Totals	21,580	28,230	28,540	28,940	28,800
	Demand Totals	20,410	23,320	25,060	28,270	31,290
	Difference	1,170	4,910	3,480	670	(-)2,590
2nd Year	Supply Totals	21,850	28,670	28,980	29,380	29,240
	Demand Totals	20,410	23,320	25,060	28,270	31,290

	Difference	1,440	5,350	3,920	1,110	(-)2,050
3rd Year	Supply Totals	21,280	27,760	28,070	28,470	28,330
	Demand Totals	20,410	23,320	25,060	28,270	31,290
	Difference	870	4,440	3,010	200	(-)2,960

NOTES:

(-) indicates a negative value

SOURCE: City of Manteca 2015 Urban Water Management Plan, July 2016

Based on the above, the City of Manteca anticipates a water supply shortage by 2040 in multiple-dry years. However, as described in the UWMP, three water supply options were identified to address future water supply shortfalls:

1. Reclaimed water: The City can develop their recycled water infrastructure to offset the groundwater used for park irrigation with reclaimed water. The quantity of groundwater replaced by recycled water can then be used for potable municipal uses, while staying within the sustainable yield constraints of 1 AFY/Ac.

2. Additional untreated surface water: As the City annexes areas, the raw water that irrigated the annexed lands could either be treated for potable municipal uses or used to offset the potable water used for irrigation.

3. Additional treated surface water: The City could negotiate and obtain additional potable water supply from the South County Water Supply Program.

Inclusion of the above water supply options as well as implementation of the City's Water Shortage Contingency Plan would ensure that adequate water supplies are available to serve buildout of the General plan. Therefore, projected water supplies would be sufficient to satisfy water demands associated with the proposed project while still meeting the current and projected water demands of existing customers within the service area. Impacts would be less than significant.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

And,

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. The City of Manteca Solid Waste Division (SWD) provides solid waste hauling service for the City of Manteca and would serve the proposed project. The nearest landfill to the project site is approximately 7.5 miles to the northeast of the project site. Solid waste is collected by the City and deposited at the Forward Landfill. Recyclables are taken to a mini transfer station adjacent to the Forward Landfill where they are subsequently put into transfer trucks and hauled to Sacramento Recycling in Sacramento. According to Cal Recycle, the Forward Landfill has a closure date of 2053 and is currently operating at 50% capacity. The proposed project would be consistent with planned growth in the Manteca 2023 General Plan, in that it would be consistent with the type of development planned for this area in the Manteca 2023 General Plan. Therefore, the proposed project's waste generation has already been addressed in the Manteca 2023 General Plan EIR. Therefore, the capacity identified in the Manteca 2023 General Plan EIR, is more than sufficient to serve the proposed project. Because the Forward Landfill has adequate capacity for the construction and operation of the Proposed Project would have a less than significant impact.

The proposed project would not interfere with regulations related to solid waste or generate waste in excess of the capacity of local infrastructure. The proposed project would have a less than significant impact in this regard.

Cumulative Impacts

Utilities are generally provided or delivered on a local level but often originate from sources outside of the City as part of a regional distribution system. Similar to the project, other projects within the City would be required to adhere to the Standard Conditions of Approval related to water efficiency, utilities services and plans, and drainage. As shown above a cumulative analysis of water supply and demand was identified for multiple water years. With the inclusion of the additional water supply options and the City's Water Shortage Contingency Plan. Therefore, implementation of the project would not result in a cumulatively considerable contribution to impacts on water supply and wastewater, stormwater, or solid waste generation.

The coordination process associated with the preparation of development and infrastructure plans is intended to ensure that adequate resources are available to serve both individual projects and cumulative demand for resources and infrastructure as a result of cumulative growth and development in the area. Individual projects are subject to review for utility capacity to avoid unanticipated interruptions in service or inadequate supplies. Other planned projects are subject to connection and service fees to assist in facility expansion and service improvements triggered by an increase in demand. The proposed project would not result in incremental impacts to utilities or service systems, that taken in sum with past, present, and reasonably foreseeable projects, would not result in significant cumulative utility impacts.

5.20 WILDFIRE

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
WILDFIRE. If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			**X**	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			**X**	
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			**X**	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			**X**	

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact. The Project site is not located in or near a LRA or SRA, nor is the site designated as a VHFHSZ. Additionally, the Project would comply with all local regulations related to emergency access/evacuation. As such, a less than significant impact would occur in this regard.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less Than Significant Impact. Refer to the previous response a).

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less Than Significant Impact. The project includes standard infrastructure, including roadways, utilities, and fire suppression systems. All of this infrastructure is designed to reduce the risk of fire. Following compliance with the established local and state regulatory framework discussed

above, the project would not expose people or structures to a significant risk involving wildland fires and impacts would be less than significant in this regard.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less Than Significant Impact**.** The Project site is not in a VHFHSZ nor located near steep slopes or hillsides. The Project would implement efficient landscape maintenance practices and design measures to decrease the release of stormwater running off the site; therefore, the Proposed project site would not expose people to downstream flooding or landslides as a result of runoff. Impacts would be less than significant.

Cumulative Impacts

The proposed Project area is not subject to natural wildfire areas. Consequently, Project implementation would not create a significant cumulative impact that would exacerbate wildfires. Impacts would be less than significant.

5.21 MANDATORY FINDINGS OF SIGNIFICANCE

ENVIRONMENTAL IMPACTS Issues	Potentially Significant Issues	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
21. MANDATORY FINDINGS OF SIGNIFICANCE. Does the project:				
a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		**X**		
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			**X**	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			**X**	

a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant With Mitigation Incorporated. This Initial Study includes an analysis of the project impacts associated with aesthetics, agricultural and forest resources, air quality, biological resources, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation and traffic, tribal cultural resources, and utilities and service systems. The analysis covers a broad spectrum of topics relative to the potential for the proposed project to have environmental impacts. This includes the potential for the proposed project to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to

drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory. It was found that the proposed project would have either no impact, a less than significant impact, or a less than significant impact with the implementation of mitigation measures. For the reasons presented throughout this Initial Study, the proposed project would not substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory. With the implementation of mitigation measures presented in this Initial Study, the proposed project would have a less than significant impact relative to this topic. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact. Per the criteria for evaluating environmental impacts in this Initial Study, the potential for adverse cumulative effects were considered in the response to each question in sections 1 through 21 of this checklist. In addition to project specific impacts, this evaluation considered the project's potential for incremental effects that are cumulatively considerable. As a result of this initial study, no cumulative effects associated with the proposed project have been identified. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact**.** Potential adverse project effects on human beings were discussed in Section 5.3, Air Quality; Section 5.7, Geology and Soils (seismic hazards); Section 5.9, Hazards and Hazardous Materials; Section 5.10, Hydrology and Water Quality (flooding); Section 5.17, Transportation (traffic hazards); and Section 5.20, Wildfire. For most aspects of these issues, no potential adverse effects on human beings were identified. Potential adverse effects that were identified would be reduced to levels considered less than significant through compliance with applicable laws, regulations, and City ordinances and standards, along with mitigation measures where necessary. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

6.0 REFERENCES

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APPENDIX A

AIR QUALITY MODELING DATA

Date: 2/14/2022 12:46 PM

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Maverik Manteca

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market with Gas Pumps	6.10	1000sqft	0.14	6,100.00	0
Fast Food Restaurant with Drive Thru	8.95	1000sqft	0.21	8,950.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0
Automobile Care Center	2.00	1000sqft	0.05	2,000.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Regional Shopping Center	32.70	1000sqft	0.75	32,700.00	0
Parking Lot	664.00	Space	5.98	265,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per construction timeline

Off-road Equipment - Anticipated Construction equipment

Date: 2/14/2022 12:46 PM

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading -

Demolition -

Vehicle Trips - Per Trip Generation table

Construction Off-road Equipment Mitigation - Per SJVAPCD regulations

Water Mitigation -

Waste Mitigation - Per AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	300.00	280.00
tblConstructionPhase	PhaseEndDate	2/9/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	12/15/2023	11/17/2023
tblConstructionPhase	PhaseEndDate	1/12/2024	12/15/2023
tblConstructionPhase	PhaseStartDate	1/13/2024	9/4/2023
tblConstructionPhase	PhaseStartDate	12/16/2023	11/20/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	23.72	62.55
tblVehicleTrips	ST_TR	624.20	288.74
tblVehicleTrips	ST_TR	616.12	213.49
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	46.12	49.02
tblVehicleTrips	ST_TR	177.62	84.45
tblVehicleTrips	SU_TR	11.88	62.55
tblVehicleTrips	SU_TR	624.20	588.74
tblVehicleTrips	SU_TR	472.58	213.49

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	5.95	7.20
tblVehicleTrips	SU_TR	21.10	49.02
tblVehicleTrips	SU_TR	166.47	84.45
tblVehicleTrips	WD_TR	23.72	62.55
tblVehicleTrips	WD_TR	624.20	288.74
tblVehicleTrips	WD_TR	470.95	213.49
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	37.75	49.02
tblVehicleTrips	WD_TR	106.78	84.45

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1163	44.1568	31.3392	0.0703	19.8049	1.8031	21.4182	10.1417	1.6588	11.6259	0.0000	6,813.6333	6,813.6333	2.1574	0.3523	6,869.1458
2023	50.8006	20.3260	25.3615	0.0657	2.7951	0.8065	3.6016	0.7552	0.7633	1.5185	0.0000	6,562.5177	6,562.5177	0.7441	0.3456	6,682.8402
Maximum	**50.8006**	**44.1568**	**31.3392**	**0.0703**	**19.8049**	**1.8031**	**21.4182**	**10.1417**	**1.6588**	**11.6259**	**0.0000**	**6,813.6333**	**6,813.6333**	**2.1574**	**0.3523**	**6,869.1458**

Mitigated Construction

Date: 2/14/2022 12:46 PM

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1163	44.1568	31.3392	0.0703	8.5435	1.8031	10.1569	4.3561	1.6588	5.8404	0.0000	6,813.6333	6,813.6333	2.1574	0.3523	6,869.1458
2023	50.8006	20.3260	25.3615	0.0657	2.6550	0.8065	3.4616	0.7209	0.7633	1.4841	0.0000	6,562.5177	6,562.5177	0.7441	0.3456	6,682.8402
Maximum	**50.8006**	**44.1568**	**31.3392**	**0.0703**	**8.5435**	**1.8031**	**10.1569**	**4.3561**	**1.6588**	**5.8404**	**0.0000**	**6,813.6333**	**6,813.6333**	**2.1574**	**0.3523**	**6,869.1458**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.45**	**0.00**	**45.57**	**53.41**	**0.00**	**44.28**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Energy	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
Mobile	24.3289	29.8652	187.4868	0.2950	28.8090	0.2699	29.0789	7.6850	0.2525	7.9374		30,339.4996	30,339.4996	3.0306	2.1802	31,064.9707

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**31.9258**	**32.1192**	**189.4707**	**0.3085**	**28.8090**	**0.4415**	**29.2504**	**7.6850**	**0.4240**	**8.1090**		**33,043.4610**	**33,043.4610**	**3.0830**	**2.2298**	**33,785.0121**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Energy	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
Mobile	24.3289	29.8652	187.4868	0.2950	28.8090	0.2699	29.0789	7.6850	0.2525	7.9374		30,339.4996	30,339.4996	3.0306	2.1802	31,064.9707
Total	**31.9258**	**32.1192**	**189.4707**	**0.3085**	**28.8090**	**0.4415**	**29.2504**	**7.6850**	**0.4240**	**8.1090**		**33,043.4610**	**33,043.4610**	**3.0830**	**2.2298**	**33,785.0121**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/26/2022	5	20	

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2	Site Preparation	Site Preparation	8/27/2022	9/9/2022	5	10	
3	Grading	Grading	9/10/2022	10/21/2022	5	30	
4	Building Construction	Building Construction	10/22/2022	11/17/2023	5	280	
5	Paving	Paving	11/20/2023	12/15/2023	5	20	
6	Architectural Coating	Architectural Coating	9/4/2023	12/29/2023	5	85	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 105

Acres of Paving: 5.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 429,375; Non-Residential Outdoor: 143,125; Striped Parking Area: 15,936

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	2	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	222.00	90.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1100	0.0000	0.1100	0.0167	0.0000	0.0167			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.1100**	**1.2427**	**1.3526**	**0.0167**	**1.1553**	**1.1719**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8700e-003	0.0783	0.0147	3.1000e-004	8.7600e-003	7.7000e-004	9.5300e-003	2.4000e-003	7.4000e-004	3.1400e-003		32.6127	32.6127	2.3000e-004	5.1300e-003	34.1469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0363	0.3756	1.0300e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		104.9634	104.9634	3.7700e-003	3.4500e-003	106.0865
Total	**0.0517**	**0.1146**	**0.3903**	**1.3400e-003**	**0.1320**	**1.4000e-003**	**0.1334**	**0.0351**	**1.3200e-003**	**0.0364**		**137.5760**	**137.5760**	**4.0000e-003**	**8.5800e-003**	**140.2333**

Mitigated Construction On-Site

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0470	0.0000	0.0470	7.1200e-003	0.0000	7.1200e-003			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.0470**	**1.2427**	**1.2897**	**7.1200e-003**	**1.1553**	**1.1624**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8700e-003	0.0783	0.0147	3.1000e-004	8.3600e-003	7.7000e-004	9.1300e-003	2.3000e-003	7.4000e-004	3.0400e-003		32.6127	32.6127	2.3000e-004	5.1300e-003	34.1469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0363	0.3756	1.0300e-003	0.1168	6.3000e-004	0.1174	0.0311	5.8000e-004	0.0317		104.9634	104.9634	3.7700e-003	3.4500e-003	106.0865
Total	**0.0517**	**0.1146**	**0.3903**	**1.3400e-003**	**0.1252**	**1.4000e-003**	**0.1266**	**0.0334**	**1.3200e-003**	**0.0347**		**137.5760**	**137.5760**	**4.0000e-003**	**8.5800e-003**	**140.2333**

3.3 Site Preparation - 2022

Date: 2/14/2022 12:46 PM

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0598	0.0436	0.4507	1.2400e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		125.9560	125.9560	4.5300e-003	4.1400e-003	127.3038
Total	**0.0598**	**0.0436**	**0.4507**	**1.2400e-003**	**0.1479**	**7.5000e-004**	**0.1486**	**0.0392**	**6.9000e-004**	**0.0399**		**125.9560**	**125.9560**	**4.5300e-003**	**4.1400e-003**	**127.3038**

Date: 2/14/2022 12:46 PM

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.4034**	**1.6126**	**10.0159**	**4.3188**	**1.4836**	**5.8024**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0598	0.0436	0.4507	1.2400e-003	0.1402	7.5000e-004	0.1409	0.0373	6.9000e-004	0.0380		125.9560	125.9560	4.5300e-003	4.1400e-003	127.3038
Total	**0.0598**	**0.0436**	**0.4507**	**1.2400e-003**	**0.1402**	**7.5000e-004**	**0.1409**	**0.0373**	**6.9000e-004**	**0.0380**		**125.9560**	**125.9560**	**4.5300e-003**	**4.1400e-003**	**127.3038**

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.7338	0.0000	9.7338	3.7110	0.0000	3.7110			0.0000			0.0000
Off-Road	4.0398	44.1011	30.7633	0.0687		1.8021	1.8021		1.6579	1.6579		6,652.6895	6,652.6895	2.1516		6,706.4798
Total	**4.0398**	**44.1011**	**30.7633**	**0.0687**	**9.7338**	**1.8021**	**11.5359**	**3.7110**	**1.6579**	**5.3689**		**6,652.6895**	**6,652.6895**	**2.1516**		**6,706.4798**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0764	0.0557	0.5759	1.5800e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		160.9438	160.9438	5.7800e-003	5.2900e-003	162.6659
Total	**0.0764**	**0.0557**	**0.5759**	**1.5800e-003**	**0.1889**	**9.6000e-004**	**0.1899**	**0.0501**	**8.8000e-004**	**0.0510**		**160.9438**	**160.9438**	**5.7800e-003**	**5.2900e-003**	**162.6659**

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1612	0.0000	4.1612	1.5865	0.0000	1.5865			0.0000			0.0000
Off-Road	4.0398	44.1011	30.7633	0.0687		1.8021	1.8021		1.6579	1.6579	0.0000	6,652.6895	6,652.6895	2.1516		6,706.4798
Total	**4.0398**	**44.1011**	**30.7633**	**0.0687**	**4.1612**	**1.8021**	**5.9633**	**1.5865**	**1.6579**	**3.2444**	**0.0000**	**6,652.6895**	**6,652.6895**	**2.1516**		**6,706.4798**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0764	0.0557	0.5759	1.5800e-003	0.1791	9.6000e-004	0.1801	0.0477	8.8000e-004	0.0486		160.9438	160.9438	5.7800e-003	5.2900e-003	162.6659

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.0764**	**0.0557**	**0.5759**	**1.5800e-003**	**0.1791**	**9.6000e-004**	**0.1801**	**0.0477**	**8.8000e-004**	**0.0486**		**160.9438**	**160.9438**	**5.7800e-003**	**5.2900e-003**	**162.6659**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1878	5.0654	1.3950	0.0188	0.6099	0.0545	0.6645	0.1756	0.0522	0.2278		1,987.0835	1,987.0835	0.0140	0.3012	2,077.2021
Worker	0.7377	0.5378	5.5590	0.0153	1.8237	9.2800e-003	1.8330	0.4837	8.5400e-003	0.4923		1,553.4578	1,553.4578	0.0558	0.0511	1,570.0800

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.9255**	**5.6032**	**6.9540**	**0.0341**	**2.4336**	**0.0638**	**2.4974**	**0.6593**	**0.0607**	**0.7200**		**3,540.5413**	**3,540.5413**	**0.0698**	**0.3523**	**3,647.2820**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1878	5.0654	1.3950	0.0188	0.5839	0.0545	0.6384	0.1692	0.0522	0.2214		1,987.0835	1,987.0835	0.0140	0.3012	2,077.2021
Worker	0.7377	0.5378	5.5590	0.0153	1.7286	9.2800e-003	1.7379	0.4604	8.5400e-003	0.4689		1,553.4578	1,553.4578	0.0558	0.0511	1,570.0800

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.9255**	**5.6032**	**6.9540**	**0.0341**	**2.3124**	**0.0638**	**2.3763**	**0.6296**	**0.0607**	**0.6903**		**3,540.5413**	**3,540.5413**	**0.0698**	**0.3523**	**3,647.2820**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0923	4.0760	1.1937	0.0181	0.6099	0.0255	0.6354	0.1756	0.0244	0.2000		1,913.5487	1,913.5487	9.2500e-003	0.2894	2,000.0175
Worker	0.6787	0.4691	5.1016	0.0148	1.8237	8.7500e-003	1.8324	0.4837	8.0500e-003	0.4918		1,512.5303	1,512.5303	0.0501	0.0469	1,527.7503

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.7710**	**4.5452**	**6.2952**	**0.0329**	**2.4336**	**0.0343**	**2.4679**	**0.6593**	**0.0325**	**0.6918**		**3,426.0790**	**3,426.0790**	**0.0593**	**0.3363**	**3,527.7678**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0923	4.0760	1.1937	0.0181	0.5839	0.0255	0.6094	0.1692	0.0244	0.1936		1,913.5487	1,913.5487	9.2500e-003	0.2894	2,000.0175
Worker	0.6787	0.4691	5.1016	0.0148	1.7286	8.7500e-003	1.7373	0.4604	8.0500e-003	0.4684		1,512.5303	1,512.5303	0.0501	0.0469	1,527.7503

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.7710**	**4.5452**	**6.2952**	**0.0329**	**2.3124**	**0.0343**	**2.3467**	**0.6296**	**0.0325**	**0.6621**		**3,426.0790**	**3,426.0790**	**0.0593**	**0.3363**	**3,527.7678**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8161**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	0.0459	0.0317	0.3447	1.0000e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		102.1980	102.1980	3.3800e-003	3.1700e-003	103.2264
Total	**0.0459**	**0.0317**	**0.3447**	**1.0000e-003**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**102.1980**	**102.1980**	**3.3800e-003**	**3.1700e-003**	**103.2264**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.8161**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0459	0.0317	0.3447	1.0000e-003	0.1168	5.9000e-004	0.1174	0.0311	5.4000e-004	0.0317		102.1980	102.1980	3.3800e-003	3.1700e-003	103.2264
Total	**0.0459**	**0.0317**	**0.3447**	**1.0000e-003**	**0.1168**	**5.9000e-004**	**0.1174**	**0.0311**	**5.4000e-004**	**0.0317**		**102.1980**	**102.1980**	**3.3800e-003**	**3.1700e-003**	**103.2264**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.1306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**48.3223**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1345	0.0930	1.0111	2.9300e-003	0.3615	1.7300e-003	0.3632	0.0959	1.6000e-003	0.0975		299.7808	299.7808	9.9200e-003	9.2900e-003	302.7974
Total	**0.1345**	**0.0930**	**1.0111**	**2.9300e-003**	**0.3615**	**1.7300e-003**	**0.3632**	**0.0959**	**1.6000e-003**	**0.0975**		**299.7808**	**299.7808**	**9.9200e-003**	**9.2900e-003**	**302.7974**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.1306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**48.3223**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1345	0.0930	1.0111	2.9300e-003	0.3426	1.7300e-003	0.3443	0.0913	1.6000e-003	0.0928		299.7808	299.7808	9.9200e-003	9.2900e-003	302.7974
Total	**0.1345**	**0.0930**	**1.0111**	**2.9300e-003**	**0.3426**	**1.7300e-003**	**0.3443**	**0.0913**	**1.6000e-003**	**0.0928**		**299.7808**	**299.7808**	**9.9200e-003**	**9.2900e-003**	**302.7974**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.3289	29.8652	187.4868	0.2950	28.8090	0.2699	29.0789	7.6850	0.2525	7.9374		30,339.4996	30,339.4996	3.0306	2.1802	31,064.9707
Unmitigated	24.3289	29.8652	187.4868	0.2950	28.8090	0.2699	29.0789	7.6850	0.2525	7.9374		30,339.4996	30,339.4996	3.0306	2.1802	31,064.9707

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	125.10	125.10	125.10	124,623	124,623

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Convenience Market with Gas Pumps	1,761.31	1,761.31	3591.31	1,085,008	1,085,008
Fast Food Restaurant with Drive Thru	1,910.74	1,910.74	1910.74	1,785,248	1,785,248
Hotel	900.00	900.00	900.00	1,709,938	1,709,938
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,602.95	1,602.95	1602.95	2,810,467	2,810,467
Supermarket	4,644.75	4,644.75	4644.75	5,283,141	5,283,141
Total	10,944.85	10,944.85	12,774.85	12,798,424	12,798,424

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Convenience Market with Gas Pumps	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Fast Food Restaurant with Drive Thru	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Hotel	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Parking Lot	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Regional Shopping Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037
Supermarket	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.0037

5.0 Energy Detail

Historical Energy Use: N

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
NaturalGas Unmitigated	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	101.096	1.0900e-003	9.9100e-003	8.3300e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.8936	11.8936	2.3000e-004	2.2000e-004	11.9643
Convenience Market with Gas Pumps	193.529	2.0900e-003	0.0190	0.0159	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		22.7681	22.7681	4.4000e-004	4.2000e-004	22.9034
Fast Food Restaurant with Drive Thru	2672.98	0.0288	0.2621	0.2201	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.4688	314.4688	6.0300e-003	5.7700e-003	316.3376
Hotel	13157.5	0.1419	1.2900	1.0836	7.7400e-003		0.0980	0.0980		0.0980	0.0980		1,547.9420	1,547.9420	0.0297	0.0284	1,557.1406

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1037.44	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0519	122.0519	2.3400e-003	2.2400e-003	122.7772
Supermarket	5819.45	0.0628	0.5705	0.4793	3.4200e-003		0.0434	0.0434		0.0434	0.0434		684.6414	684.6414	0.0131	0.0126	688.7099
Total		**0.2479**	**2.2531**	**1.8927**	**0.0135**		**0.1712**	**0.1712**		**0.1712**	**0.1712**		**2,703.7658**	**2,703.7658**	**0.0518**	**0.0496**	**2,719.8330**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.101096	1.0900e-003	9.9100e-003	8.3300e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.8936	11.8936	2.3000e-004	2.2000e-004	11.9643
Convenience Market with Gas Pumps	0.193529	2.0900e-003	0.0190	0.0159	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		22.7681	22.7681	4.4000e-004	4.2000e-004	22.9034
Fast Food Restaurant with Drive Thru	2.67298	0.0288	0.2621	0.2201	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.4688	314.4688	6.0300e-003	5.7700e-003	316.3376
Hotel	13.1575	0.1419	1.2900	1.0836	7.7400e-003		0.0980	0.0980		0.0980	0.0980		1,547.9420	1,547.9420	0.0297	0.0284	1,557.1406
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.03744	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0519	122.0519	2.3400e-003	2.2400e-003	122.7772
Supermarket	5.81945	0.0628	0.5705	0.4793	3.4200e-003		0.0434	0.0434		0.0434	0.0434		684.6414	684.6414	0.0131	0.0126	688.7099
Total		**0.2479**	**2.2531**	**1.8927**	**0.0135**		**0.1712**	**0.1712**		**0.1712**	**0.1712**		**2,703.7658**	**2,703.7658**	**0.0518**	**0.0496**	**2,719.8330**

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Unmitigated	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4500e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**7.3491**	**8.3000e-004**	**0.0912**	**1.0000e-005**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**		**0.1956**	**0.1956**	**5.1000e-004**		**0.2084**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4500e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Total	**7.3491**	**8.3000e-004**	**0.0912**	**1.0000e-005**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**		**0.1956**	**0.1956**	**5.1000e-004**		**0.2084**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Maverik Manteca - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Maverik Manteca

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market with Gas Pumps	6.10	1000sqft	0.14	6,100.00	0
Fast Food Restaurant with Drive Thru	8.95	1000sqft	0.21	8,950.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0
Automobile Care Center	2.00	1000sqft	0.05	2,000.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Regional Shopping Center	32.70	1000sqft	0.75	32,700.00	0
Parking Lot	664.00	Space	5.98	265,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per construction timeline

Off-road Equipment - Anticipated Construction equipment

Grading -

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Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition -

Vehicle Trips - Per Trip Generation table

Construction Off-road Equipment Mitigation - Per SJVAPCD regulations

Water Mitigation -

Waste Mitigation - Per AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	300.00	280.00
tblConstructionPhase	PhaseEndDate	2/9/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	12/15/2023	11/17/2023
tblConstructionPhase	PhaseEndDate	1/12/2024	12/15/2023
tblConstructionPhase	PhaseStartDate	1/13/2024	9/4/2023
tblConstructionPhase	PhaseStartDate	12/16/2023	11/20/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	23.72	62.55
tblVehicleTrips	ST_TR	624.20	288.74
tblVehicleTrips	ST_TR	616.12	213.49
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	46.12	49.02
tblVehicleTrips	ST_TR	177.62	84.45
tblVehicleTrips	SU_TR	11.88	62.55
tblVehicleTrips	SU_TR	624.20	588.74
tblVehicleTrips	SU_TR	472.58	213.49
tblVehicleTrips	SU_TR	5.95	7.20

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	21.10	49.02
tblVehicleTrips	SU_TR	166.47	84.45
tblVehicleTrips	WD_TR	23.72	62.55
tblVehicleTrips	WD_TR	624.20	288.74
tblVehicleTrips	WD_TR	470.95	213.49
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	37.75	49.02
tblVehicleTrips	WD_TR	106.78	84.45

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1215	44.1471	31.4066	0.0705	19.8049	1.8031	21.4182	10.1417	1.6588	11.6259	0.0000	6,830.8695	6,830.8695	2.1567	0.3457	6,886.1743
2023	50.8597	19.9645	25.9996	0.0676	2.7951	0.8065	3.6015	0.7552	0.7632	1.5184	0.0000	6,752.2797	6,752.2797	0.7425	0.3380	6,870.1799
Maximum	**50.8597**	**44.1471**	**31.4066**	**0.0705**	**19.8049**	**1.8031**	**21.4182**	**10.1417**	**1.6588**	**11.6259**	**0.0000**	**6,830.8695**	**6,830.8695**	**2.1567**	**0.3457**	**6,886.1743**

Mitigated Construction

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	4.1215	44.1471	31.4066	0.0705	8.5435	1.8031	10.1569	4.3561	1.6588	5.8404	0.0000	6,830.8695	6,830.8695	2.1567	0.3457	6,886.1743
2023	50.8597	19.9645	25.9996	0.0676	2.6550	0.8065	3.4615	0.7209	0.7632	1.4841	0.0000	6,752.2797	6,752.2797	0.7425	0.3380	6,870.1799
Maximum	**50.8597**	**44.1471**	**31.4066**	**0.0705**	**8.5435**	**1.8031**	**10.1569**	**4.3561**	**1.6588**	**5.8404**	**0.0000**	**6,830.8695**	**6,830.8695**	**2.1567**	**0.3457**	**6,886.1743**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.45**	**0.00**	**45.57**	**53.41**	**0.00**	**44.28**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Energy	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
Mobile	31.2978	26.2841	169.5044	0.3166	28.8090	0.2695	29.0784	7.6850	0.2521	7.9370		32,557.8678	32,557.8678	2.4907	2.0006	33,216.3043
Total	**38.8948**	**28.5381**	**171.4883**	**0.3301**	**28.8090**	**0.4410**	**29.2500**	**7.6850**	**0.4236**	**8.1086**		**35,261.8292**	**35,261.8292**	**2.5430**	**2.0501**	**35,936.3457**

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Energy	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
Mobile	31.2978	26.2841	169.5044	0.3166	28.8090	0.2695	29.0784	7.6850	0.2521	7.9370		32,557.8678	32,557.8678	2.4907	2.0006	33,216.3043
Total	**38.8948**	**28.5381**	**171.4883**	**0.3301**	**28.8090**	**0.4410**	**29.2500**	**7.6850**	**0.4236**	**8.1086**		**35,261.8292**	**35,261.8292**	**2.5430**	**2.0501**	**35,936.3457**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/26/2022	5	20	
2	Site Preparation	Site Preparation	8/27/2022	9/9/2022	5	10	
3	Grading	Grading	9/10/2022	10/21/2022	5	30	
4	Building Construction	Building Construction	10/22/2022	11/17/2023	5	280	
5	Paving	Paving	11/20/2023	12/15/2023	5	20	

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6	Architectural Coating	Architectural Coating	9/4/2023	12/29/2023	5	85	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 105

Acres of Paving: 5.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 429,375; Non-Residential Outdoor: 143,125; Striped Parking Area: 15,936

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	2	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	222.00	90.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1100	0.0000	0.1100	0.0167	0.0000	0.0167			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.1100**	**1.2427**	**1.3526**	**0.0167**	**1.1553**	**1.1719**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9400e-003	0.0734	0.0144	3.1000e-004	8.7600e-003	7.7000e-004	9.5300e-003	2.4000e-003	7.4000e-004	3.1400e-003		32.5918	32.5918	2.3000e-004	5.1300e-003	34.1251
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0533	0.0300	0.4196	1.1400e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		116.2044	116.2044	3.3400e-003	3.0300e-003	117.1920
Total	**0.0552**	**0.1034**	**0.4339**	**1.4500e-003**	**0.1320**	**1.4000e-003**	**0.1334**	**0.0351**	**1.3200e-003**	**0.0364**		**148.7962**	**148.7962**	**3.5700e-003**	**8.1600e-003**	**151.3172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0470	0.0000	0.0470	7.1200e-003	0.0000	7.1200e-003			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.0470**	**1.2427**	**1.2897**	**7.1200e-003**	**1.1553**	**1.1624**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.9400e-003	0.0734	0.0144	3.1000e-004	8.3600e-003	7.7000e-004	9.1300e-003	2.3000e-003	7.4000e-004	3.0400e-003		32.5918	32.5918	2.3000e-004	5.1300e-003	34.1251
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0533	0.0300	0.4196	1.1400e-003	0.1168	6.3000e-004	0.1174	0.0311	5.8000e-004	0.0317		116.2044	116.2044	3.3400e-003	3.0300e-003	117.1920
Total	**0.0552**	**0.1034**	**0.4339**	**1.4500e-003**	**0.1252**	**1.4000e-003**	**0.1266**	**0.0334**	**1.3200e-003**	**0.0347**		**148.7962**	**148.7962**	**3.5700e-003**	**8.1600e-003**	**151.3172**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0360	0.5035	1.3700e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		139.4453	139.4453	4.0000e-003	3.6400e-003	140.6304
Total	**0.0640**	**0.0360**	**0.5035**	**1.3700e-003**	**0.1479**	**7.5000e-004**	**0.1486**	**0.0392**	**6.9000e-004**	**0.0399**		**139.4453**	**139.4453**	**4.0000e-003**	**3.6400e-003**	**140.6304**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.4034**	**1.6126**	**10.0159**	**4.3188**	**1.4836**	**5.8024**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0360	0.5035	1.3700e-003	0.1402	7.5000e-004	0.1409	0.0373	6.9000e-004	0.0380		139.4453	139.4453	4.0000e-003	3.6400e-003	140.6304
Total	**0.0640**	**0.0360**	**0.5035**	**1.3700e-003**	**0.1402**	**7.5000e-004**	**0.1409**	**0.0373**	**6.9000e-004**	**0.0380**		**139.4453**	**139.4453**	**4.0000e-003**	**3.6400e-003**	**140.6304**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.7338	0.0000	9.7338	3.7110	0.0000	3.7110			0.0000			0.0000
Off-Road	4.0398	44.1011	30.7633	0.0687		1.8021	1.8021		1.6579	1.6579		6,652.6895	6,652.6895	2.1516		6,706.4798

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**4.0398**	**44.1011**	**30.7633**	**0.0687**	**9.7338**	**1.8021**	**11.5359**	**3.7110**	**1.6579**	**5.3689**		**6,652.6895**	**6,652.6895**	**2.1516**		**6,706.4798**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0817	0.0460	0.6433	1.7500e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		178.1800	178.1800	5.1100e-003	4.6500e-003	179.6945
Total	**0.0817**	**0.0460**	**0.6433**	**1.7500e-003**	**0.1889**	**9.6000e-004**	**0.1899**	**0.0501**	**8.8000e-004**	**0.0510**		**178.1800**	**178.1800**	**5.1100e-003**	**4.6500e-003**	**179.6945**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.1612	0.0000	4.1612	1.5865	0.0000	1.5865			0.0000			0.0000
Off-Road	4.0398	44.1011	30.7633	0.0687		1.8021	1.8021		1.6579	1.6579	0.0000	6,652.6895	6,652.6895	2.1516		6,706.4798

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**4.0398**	**44.1011**	**30.7633**	**0.0687**	**4.1612**	**1.8021**	**5.9633**	**1.5865**	**1.6579**	**3.2444**	**0.0000**	**6,652.6895**	**6,652.6895**	**2.1516**		**6,706.4798**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0817	0.0460	0.6433	1.7500e-003	0.1791	9.6000e-004	0.1801	0.0477	8.8000e-004	0.0486		178.1800	178.1800	5.1100e-003	4.6500e-003	179.6945
Total	**0.0817**	**0.0460**	**0.6433**	**1.7500e-003**	**0.1791**	**9.6000e-004**	**0.1801**	**0.0477**	**8.8000e-004**	**0.0486**		**178.1800**	**178.1800**	**5.1100e-003**	**4.6500e-003**	**179.6945**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1924	4.7518	1.3471	0.0188	0.6099	0.0544	0.6643	0.1756	0.0520	0.2276		1,985.3549	1,985.3549	0.0142	0.3007	2,075.3307
Worker	0.7887	0.4439	6.2094	0.0169	1.8237	9.2800e-003	1.8330	0.4837	8.5400e-003	0.4923		1,719.8248	1,719.8248	0.0494	0.0449	1,734.4421
Total	**0.9811**	**5.1957**	**7.5565**	**0.0357**	**2.4336**	**0.0637**	**2.4973**	**0.6593**	**0.0606**	**0.7199**		**3,705.1797**	**3,705.1797**	**0.0636**	**0.3457**	**3,809.7728**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1924	4.7518	1.3471	0.0188	0.5839	0.0544	0.6382	0.1692	0.0520	0.2213		1,985.3549	1,985.3549	0.0142	0.3007	2,075.3307
Worker	0.7887	0.4439	6.2094	0.0169	1.7286	9.2800e-003	1.7379	0.4604	8.5400e-003	0.4689		1,719.8248	1,719.8248	0.0494	0.0449	1,734.4421
Total	**0.9811**	**5.1957**	**7.5565**	**0.0357**	**2.3124**	**0.0637**	**2.3761**	**0.6296**	**0.0606**	**0.6902**		**3,705.1797**	**3,705.1797**	**0.0636**	**0.3457**	**3,809.7728**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0980	3.8124	1.1545	0.0181	0.6099	0.0254	0.6353	0.1756	0.0243	0.1999		1,909.9124	1,909.9124	9.5200e-003	0.2886	1,996.1566
Worker	0.7233	0.3874	5.6668	0.0164	1.8237	8.7500e-003	1.8324	0.4837	8.0500e-003	0.4918		1,673.9378	1,673.9378	0.0440	0.0412	1,687.3237
Total	**0.8213**	**4.1998**	**6.8213**	**0.0344**	**2.4336**	**0.0342**	**2.4678**	**0.6593**	**0.0324**	**0.6917**		**3,583.8502**	**3,583.8502**	**0.0535**	**0.3298**	**3,683.4803**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0980	3.8124	1.1545	0.0181	0.5839	0.0254	0.6093	0.1692	0.0243	0.1935		1,909.9124	1,909.9124	9.5200e-003	0.2886	1,996.1566
Worker	0.7233	0.3874	5.6668	0.0164	1.7286	8.7500e-003	1.7373	0.4604	8.0500e-003	0.4684		1,673.9378	1,673.9378	0.0440	0.0412	1,687.3237
Total	**0.8213**	**4.1998**	**6.8213**	**0.0344**	**2.3124**	**0.0342**	**2.3466**	**0.6296**	**0.0324**	**0.6620**		**3,583.8502**	**3,583.8502**	**0.0535**	**0.3298**	**3,683.4803**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.8161**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0262	0.3829	1.1100e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		113.1039	113.1039	2.9700e-003	2.7900e-003	114.0084
Total	**0.0489**	**0.0262**	**0.3829**	**1.1100e-003**	**0.1232**	**5.9000e-004**	**0.1238**	**0.0327**	**5.4000e-004**	**0.0332**		**113.1039**	**113.1039**	**2.9700e-003**	**2.7900e-003**	**114.0084**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**1.8161**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0489	0.0262	0.3829	1.1100e-003	0.1168	5.9000e-004	0.1174	0.0311	5.4000e-004	0.0317		113.1039	113.1039	2.9700e-003	2.7900e-003	114.0084
Total	**0.0489**	**0.0262**	**0.3829**	**1.1100e-003**	**0.1168**	**5.9000e-004**	**0.1174**	**0.0311**	**5.4000e-004**	**0.0317**		**113.1039**	**113.1039**	**2.9700e-003**	**2.7900e-003**	**114.0084**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.1306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**48.3223**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1434	0.0768	1.1232	3.2400e-003	0.3615	1.7300e-003	0.3632	0.0959	1.6000e-003	0.0975		331.7715	331.7715	8.7200e-003	8.1700e-003	334.4245
Total	**0.1434**	**0.0768**	**1.1232**	**3.2400e-003**	**0.3615**	**1.7300e-003**	**0.3632**	**0.0959**	**1.6000e-003**	**0.0975**		**331.7715**	**331.7715**	**8.7200e-003**	**8.1700e-003**	**334.4245**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	48.1306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**48.3223**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1434	0.0768	1.1232	3.2400e-003	0.3426	1.7300e-003	0.3443	0.0913	1.6000e-003	0.0928		331.7715	331.7715	8.7200e-003	8.1700e-003	334.4245
Total	**0.1434**	**0.0768**	**1.1232**	**3.2400e-003**	**0.3426**	**1.7300e-003**	**0.3443**	**0.0913**	**1.6000e-003**	**0.0928**		**331.7715**	**331.7715**	**8.7200e-003**	**8.1700e-003**	**334.4245**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day										lb/day				
Mitigated	31.2978	26.2841	169.5044	0.3166	28.8090	0.2695	29.0784	7.6850	0.2521	7.9370	32,557.8678	32,557.8678	2.4907	2.0006	33,216.3043
Unmitigated	31.2978	26.2841	169.5044	0.3166	28.8090	0.2695	29.0784	7.6850	0.2521	7.9370	32,557.8678	32,557.8678	2.4907	2.0006	33,216.3043

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	125.10	125.10	125.10	124,623	124,623
Convenience Market with Gas Pumps	1,761.31	1,761.31	3591.31	1,085,008	1,085,008
Fast Food Restaurant with Drive Thru	1,910.74	1,910.74	1910.74	1,785,248	1,785,248
Hotel	900.00	900.00	900.00	1,709,938	1,709,938
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,602.95	1,602.95	1602.95	2,810,467	2,810,467
Supermarket	4,644.75	4,644.75	4644.75	5,283,141	5,283,141
Total	10,944.85	10,944.85	12,774.85	12,798,424	12,798,424

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Convenience Market with Gas Pumps	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fast Food Restaurant with Drive Thru	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Hotel	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Parking Lot	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Regional Shopping Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Supermarket	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330
NaturalGas Unmitigated	0.2479	2.2531	1.8926	0.0135		0.1712	0.1712		0.1712	0.1712		2,703.7658	2,703.7658	0.0518	0.0496	2,719.8330

5.2 Energy by Land Use - NaturalGas

Unmitigated

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	101.096	1.0900e-003	9.9100e-003	8.3300e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.8936	11.8936	2.3000e-004	2.2000e-004	11.9643
Convenience Market with Gas Pumps	193.529	2.0900e-003	0.0190	0.0159	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		22.7681	22.7681	4.4000e-004	4.2000e-004	22.9034
Fast Food Restaurant with Drive Thru	2672.98	0.0288	0.2621	0.2201	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.4688	314.4688	6.0300e-003	5.7700e-003	316.3376
Hotel	13157.5	0.1419	1.2900	1.0836	7.7400e-003		0.0980	0.0980		0.0980	0.0980		1,547.9420	1,547.9420	0.0297	0.0284	1,557.1406
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1037.44	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0519	122.0519	2.3400e-003	2.2400e-003	122.7772
Supermarket	5819.45	0.0628	0.5705	0.4793	3.4200e-003		0.0434	0.0434		0.0434	0.0434		684.6414	684.6414	0.0131	0.0126	688.7099
Total		**0.2479**	**2.2531**	**1.8927**	**0.0135**		**0.1712**	**0.1712**		**0.1712**	**0.1712**		**2,703.7658**	**2,703.7658**	**0.0518**	**0.0496**	**2,719.8330**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.101096	1.0900e-003	9.9100e-003	8.3300e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004		11.8936	11.8936	2.3000e-004	2.2000e-004	11.9643
Convenience Market with Gas Pumps	0.193529	2.0900e-003	0.0190	0.0159	1.1000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003		22.7681	22.7681	4.4000e-004	4.2000e-004	22.9034
Fast Food Restaurant with Drive Thru	2.67298	0.0288	0.2621	0.2201	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.4688	314.4688	6.0300e-003	5.7700e-003	316.3376

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Hotel	13.1575	0.1419	1.2900	1.0836	7.7400e-003		0.0980	0.0980		0.0980	0.0980		1,547.9420	1,547.9420	0.0297	0.0284	1,557.1406
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.03744	0.0112	0.1017	0.0854	6.1000e-004		7.7300e-003	7.7300e-003		7.7300e-003	7.7300e-003		122.0519	122.0519	2.3400e-003	2.2400e-003	122.7772
Supermarket	5.81945	0.0628	0.5705	0.4793	3.4200e-003		0.0434	0.0434		0.0434	0.0434		684.6414	684.6414	0.0131	0.0126	688.7099
Total		**0.2479**	**2.2531**	**1.8927**	**0.0135**		**0.1712**	**0.1712**		**0.1712**	**0.1712**		**2,703.7658**	**2,703.7658**	**0.0518**	**0.0496**	**2,719.8330**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Unmitigated	7.3491	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084

6.2 Area by SubCategory

Unmitigated

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4500e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Total	**7.3491**	**8.3000e-004**	**0.0912**	**1.0000e-005**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**		**0.1956**	**0.1956**	**5.1000e-004**		**0.2084**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1209					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.2198					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4500e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1956	0.1956	5.1000e-004		0.2084
Total	**7.3491**	**8.3000e-004**	**0.0912**	**1.0000e-005**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**		**0.1956**	**0.1956**	**5.1000e-004**		**0.2084**

Maverik Manteca - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Date: 2/14/2022 12:48 PM

Maverik Manteca - San Joaquin County, Summer

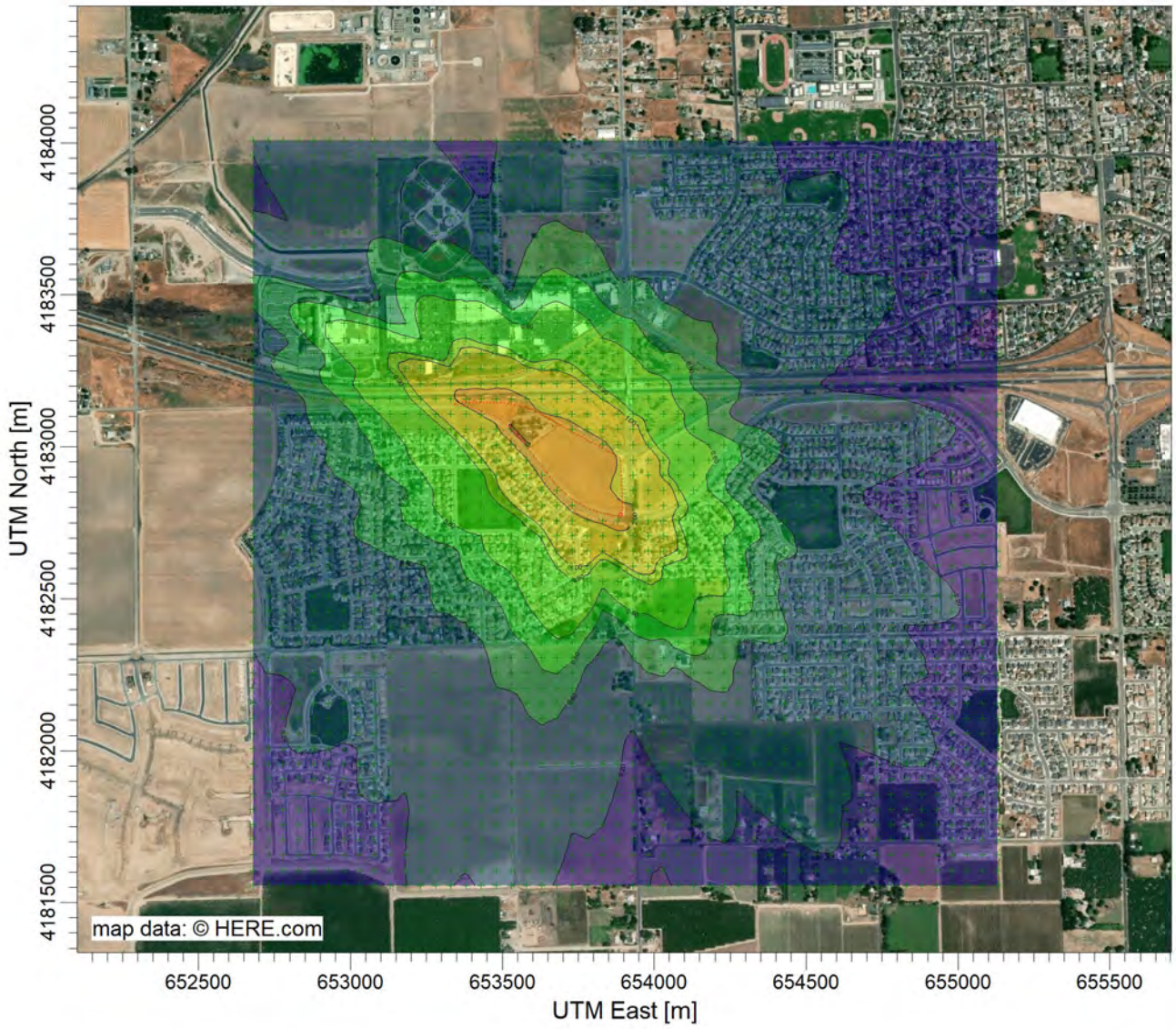
EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

APPENDIX B

HEALTH RISK ASSESSMENT (HRA) MODELING DATA

PROJECT TITLE:

Maverik Manteca_1-hour



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL

ug/m^3

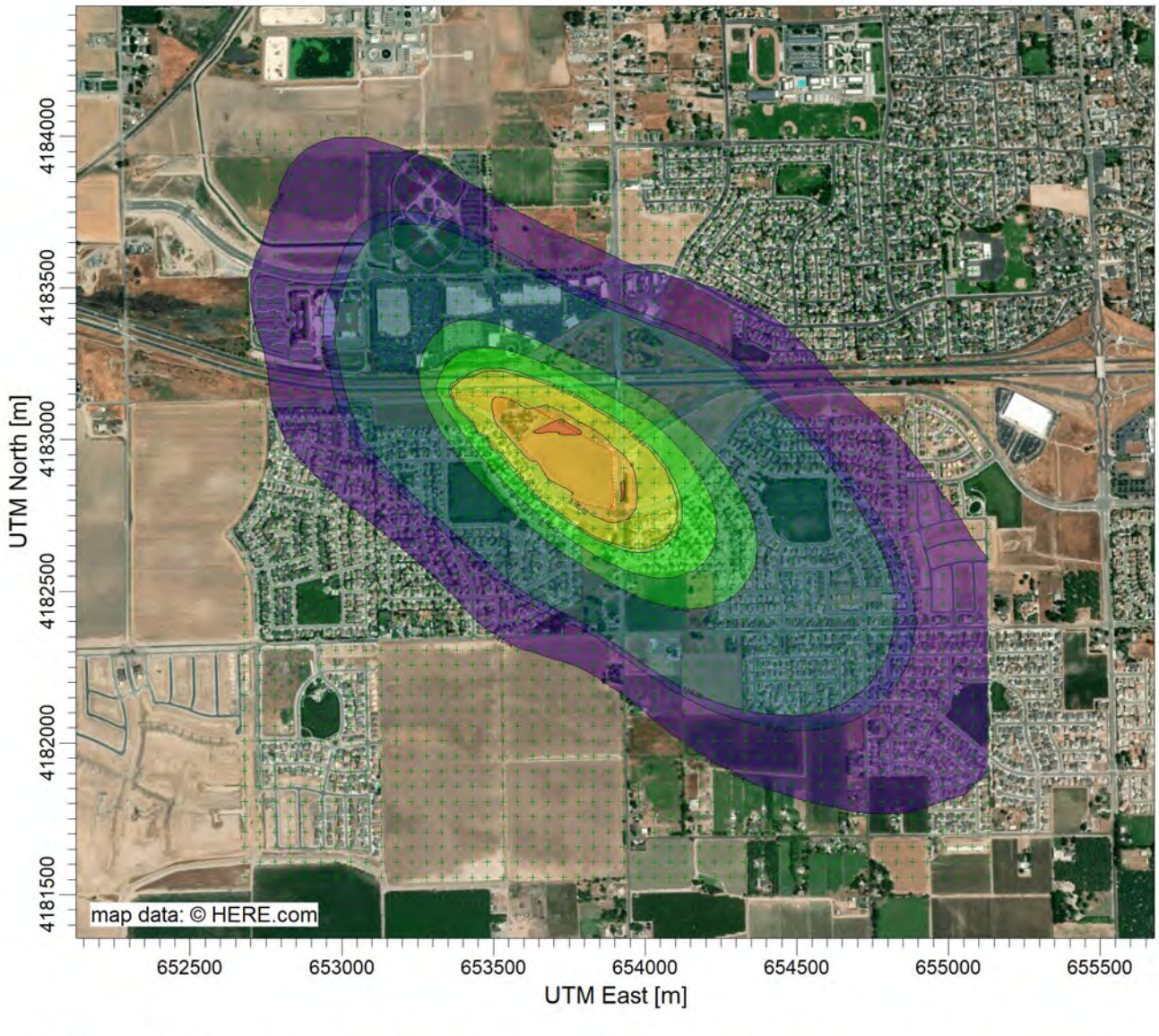
Max: 3.09 [ug/m^3] at (653529.81, 4183056.98)

0.09 0.10 0.20 0.40 0.50 0.60 0.90 1.00 2.00 3.00 3.09

COMMENTS:	SOURCES: **1**	COMPANY NAME:	
	RECEPTORS: **2471**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:22,652 0 0.5 km	
	MAX: **3.09 ug/m^3**	DATE: **3/9/2022**	PROJECT NO.:

PROJECT TITLE:

Maverik Manteca_Annual



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 5.6E-02 [ug/m^3] at (653729.81, 4183056.98)

5.5E-04 9.0E-04 1.0E-03 3.0E-03 5.0E-03 9.0E-03 1.0E-02 3.0E-02 5.0E-02 5.6E-02

COMMENTS:	SOURCES: **1**	COMPANY NAME:	
	RECEPTORS: **2471**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:22,355 0 0.5 km	
	MAX: **5.6E-02 ug/m^3**	DATE: **3/9/2022**	PROJECT NO.:

Construction

PM_{10} Exhaust Onsite

Year	Tons/Year	g/s	Weighted Average On-Site Rate
2022	0.06766	0.005871	0.007207081
2023	8.86E-02	0.007689	

On-Site Construction Emissions

Year	Phase	tons/yr Exhaust PM_{10}
2022	Demolition	0.0124
2022	Site Prep	8.06E-03
2022	Grading	2.70E-02
2022	Building	2.02E-02
	Total	0.06766
2023	Building	0.0805
2023	Paving	5.10E-03
2023	Arch Coating	3.01E-03
	Total	0.08861

HARP2 - HRACalc (dated 19044) 3/3/2022 11:57:18 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_CONSTRUCTIONCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_CONSTRUCTIONNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_CONSTRUCTIONNCAcuteRisk.csv
HRA ran successfully

Construction			
	µg/m^3		
	1 hr	8 hr	Annual
Project	2.00E+00	5.00E-01	3.00E-02

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	1.65E-02	1.11E-05	11.12	6.00E-03	0.00E+00	0.00E+00
2	107028	Acrolein				0.00E+00	2.00E+00	8.00E-01

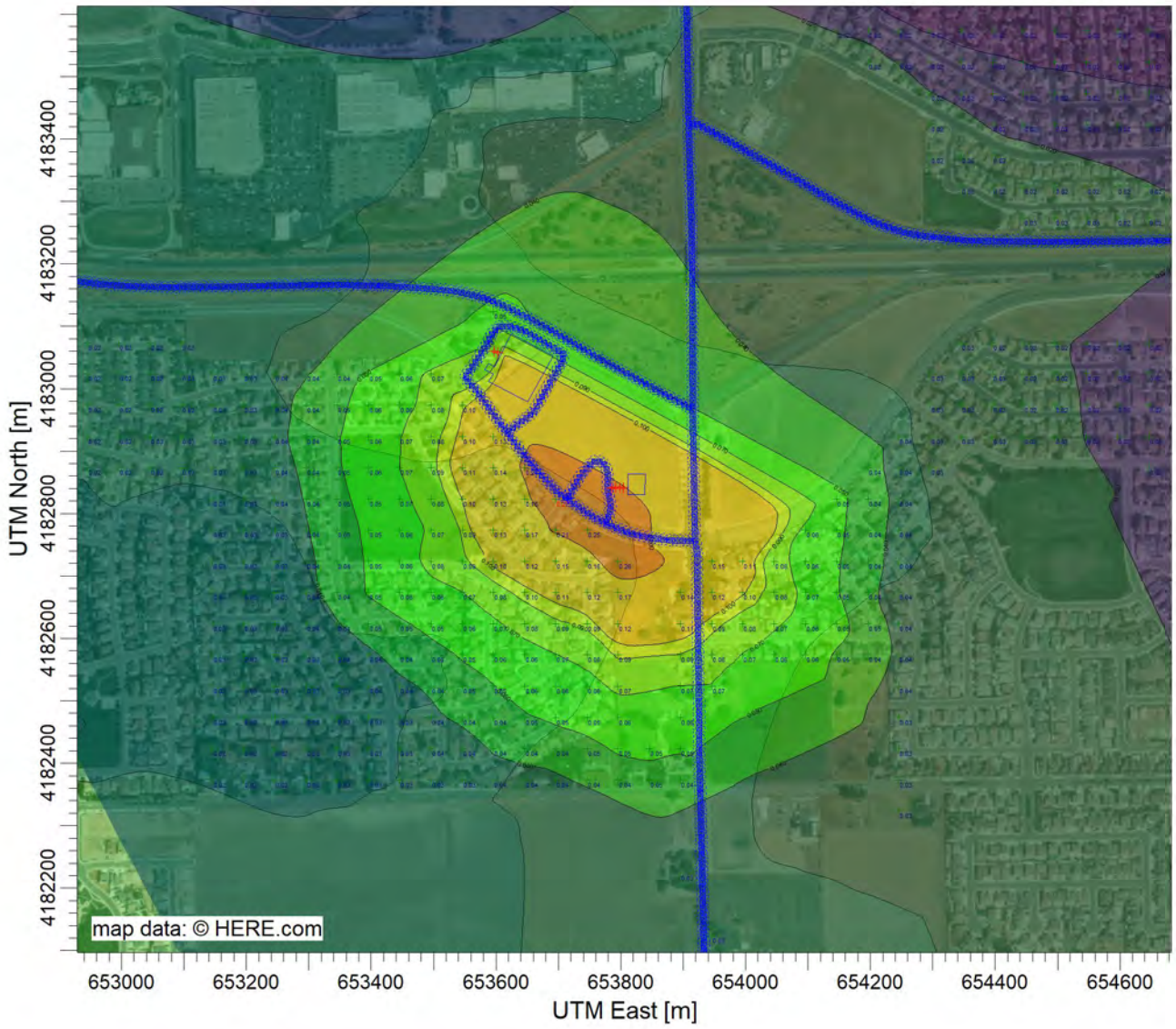
Operations			
	µg/m^3		
	1 hr	24 hr	Annual
Project	2.75E-01	6.87E-03	1.94E-02

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	1.94E-02	1.64E-05	16.44	3.80E-03	2.80E-03	1.12E-03
2	107028	Acrolein	0.00E+00	0.00E+00	0.0	0.00E+00	2.75E-01	1.08E-01

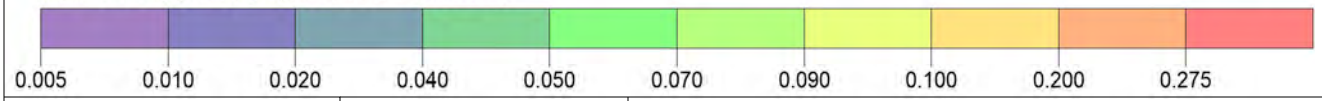
PROJECT TITLE:

Maverik Manteca_Operation_1-hour



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

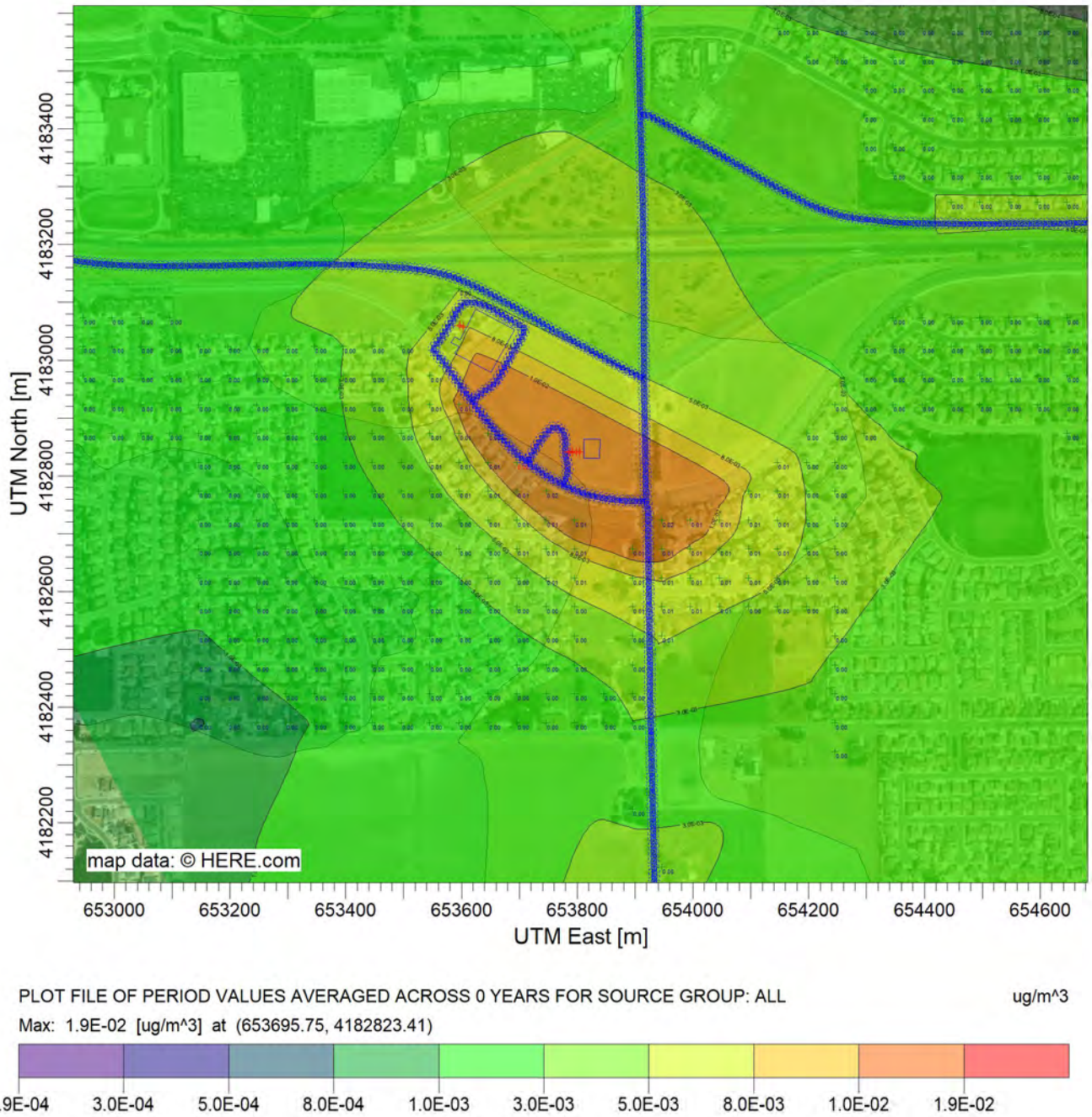
Max: 0.275 [ug/m^3] at (653695.75, 4182823.41)



COMMENTS:	SOURCES: **16**	COMPANY NAME:	
	RECEPTORS: **770**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:11,028 0 0.4 km	
	MAX: **0.275 ug/m^3**	DATE: **3/9/2022**	PROJECT NO.:

PROJECT TITLE:

Maverik Manteca_Operation_24-hour



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 1.9E-02 [ug/m^3] at (653695.75, 4182823.41)

1.9E-04 3.0E-04 5.0E-04 8.0E-04 1.0E-03 3.0E-03 5.0E-03 8.0E-03 1.0E-02 1.9E-02

COMMENTS:	SOURCES: **16**	COMPANY NAME:	
	RECEPTORS: **770**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:11,026 0 0.4 km	
	MAX: **1.9E-02 ug/m^3**	DATE: **3/9/2022**	PROJECT NO.:

Maverik Manteca Operational HRA Emissions Calculator

Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	TRU Emissions Rate (g/sec)	Total Emissions Rate (g/sec)
SR-120 EB_Mainline to Off-Ramp	55	219	0.021732343	2106.2	1.31	6.23E+00	7.21E-05	1.66E-08	7.21E-05
SR-120 EB_Off-Ramp	35	219	0.010016865	548.8	0.34	7.48E-01	8.65E-06	2.61E-08	8.68E-06
SR 120 WB_Mainline to Off-Ramp	55	438	0.021732343	1740.9	1.08	1.03E+01	1.19E-04	3.32E-08	1.19E-04
I-10 WB_Off-Ramp	35	438	0.010016865	435	0.27	1.19E+00	1.37E-05	5.22E-08	1.38E-05
Airport Way_Yosemite Ave to Atherton Dr	40	219	0.011478119	1995.4	1.24	3.11E+00	3.61E-05	2.28E-08	3.61E-05
Airport Way_Fig Rd to Woodward Ave	55	219	0.021732343	1725.1	1.07	5.10E+00	5.90E-05	1.66E-08	5.90E-05
Airport Way_Woodward Ave to Atherton Dr	40	219	0.011478119	400.2	0.25	6.25E-01	7.23E-06	2.28E-08	7.25E-06
Atherton Drive_Airport Way to Grocery Store Driveway	45	1094	0.014111806	470.9	0.29	4.52E+00	5.23E-05	1.01E-07	5.24E-05
On-Site Truck Circulation_Grocery Store	5	22	0.00216678	372.3	0.23	1.10E-02	1.27E-07	1.83E-08	1.45E-07
On-Site Truck Circulation_Gas Station	5	1073	0.00216678	188.4	0.12	2.72E-01	3.15E-06	8.95E-07	4.04E-06

Refrigeration Unit Emissions	Speed (mph)	Size (hp)	Load Factor	On/Off Cycle Factor	Emissions Factor (g/bhp-hr)	Daily Trucks with TRU (veh/day)	Cooling Time (hr/veh)	Emissions (g/day)	Emissions (g/sec)
SR-120 EB_Mainline to Off-Ramp	55	34	0.53	0.5	0.01	88	1.82E-04	1.43E-03	1.66E-08
SR-120 EB_Off-Ramp	35	34	0.53	0.5	0.01	88	2.86E-04	2.25E-03	2.61E-08
SR 120 WB_Mainline to Off-Ramp	55	34	0.53	0.5	0.01	175	1.82E-04	2.87E-03	3.32E-08
I-10 WB_Off-Ramp	35	34	0.53	0.5	0.01	175	2.86E-04	4.51E-03	5.22E-08
Airport Way_Yosemite Ave to Atherton Dr	40	34	0.53	0.5	0.01	88	2.50E-04	1.97E-03	2.28E-08
Airport Way_Fig Rd to Woodward Ave	55	34	0.53	0.5	0.01	88	1.82E-04	1.43E-03	1.66E-08
Airport Way_Woodward Ave to Atherton Dr	40	34	0.53	0.5	0.01	88	2.50E-04	1.97E-03	2.28E-08
Atherton Drive_Airport Way to Grocery Store Driveway	45	34	0.53	0.5	0.01	438	2.22E-04	8.76E-03	1.01E-07
On-Site Truck Circulation_Grocery Store	5	34	0.53	0.5	0.01	9	2.00E-03	1.58E-03	1.83E-08
On-Site Truck Circulation_Gas Station	5	34	0.53	0.5	0.01	429	2.00E-03	7.73E-02	8.95E-07

Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Duration (hr/veh)	Emissions (g/day)	Emission Rate (g/sec)
Grocery Store Truck Idling - 1	Idle	0.43	0.00216678	0.25	2.32E-04	2.69E-09
Grocery Store Truck Idling - 2	Idle	0.43	0.00216678	0.25	2.32E-04	2.69E-09
Gas Station Truck Idling - 1	Idle	268	0.00216678	0.25	1.45E-01	1.68E-06
Gas Station Truck Idling - 2	Idle	268	0.00216678	0.25	1.45E-01	1.68E-06
Gas Station Truck Idling - 3	Idle	268	0.00216678	0.25	1.45E-01	1.68E-06
Gas Station Truck Idling - 4	Idle	268	0.00216678	0.25	1.45E-01	1.68E-06

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Sub-Area
Region: San Joaquin (SJV)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for CVMT and EVMT, tons/year for Emissions, 1000 gallons/year for Fuel Consumption, mph for Speed, kWh/year for Energy Consumption

				Speed (mph)						
		Project Mix	**Idle**	**15**	**35**	**40**	**45**	**50**	**55**	
	HHDT	1.00	0.00216678	0.0112738	0.010016865	0.011478119	0.014111806	0.01714928	0.021732343	

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**Population**	**VMT**	**Trips**	**PM10_IDLEX**	
San Joaquin (SJV)	2023	HHDT	Aggregate	5	Gasoline	2.419215607	60.00819344	48.40366587	0	0
San Joaquin (SJV)	2023	HHDT	Aggregate	5	Diesel	8575.081903	1199316.402	140104.4472	0.035228721	302.0891677
San Joaquin (SJV)	2023	HHDT	Aggregate	5	Natural Gas	216.9125611	14031.10566	1757.131941	0.024887886	5.398495105

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Joaquin (SJV)	2023	HHDT	Aggregate	15	Gasoline	1.595225434	0.016572431	0.026436764
San Joaquin (SJV)	2023	HHDT	Aggregate	15	Diesel	18533.0667	0.011467285	212.5239617
San Joaquin (SJV)	2023	HHDT	Aggregate	15	Natural Gas	701.7053698	0.0061502	4.315628299

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Bernardino (SC)	2023	HHDT	Aggregate	35	Gasoline	3.238213027	0.006996468	0.022656054
San Bernardino (SC)	2023	HHDT	Aggregate	35	Diesel	28026.50325	0.010228038	286.6561311
San Bernardino (SC)	2023	HHDT	Aggregate	35	Natural Gas	904.3722357	0.003483443	3.150329357

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Bernardino (SC)	2023	HHDT	Aggregate	40	Gasoline	3.318901252	0.006346794	0.021064381
San Bernardino (SC)	2023	HHDT	Aggregate	40	Diesel	33993.67212	0.011710581	398.0856469
San Bernardino (SC)	2023	HHDT	Aggregate	40	Natural Gas	965.1797029	0.003308453	3.193251666

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Bernardino (SC)	2023	HHDT	Aggregate	45	Gasoline	3.359576932	0.006033566	0.020270231
San Bernardino (SC)	2023	HHDT	Aggregate	45	Diesel	37198.29598	0.014400879	535.688146
San Bernardino (SC)	2023	HHDT	Aggregate	45	Natural Gas	988.8782344	0.003265301	3.228985481

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Bernardino (SC)	2023	HHDT	Aggregate	50	Gasoline	3.668980235	0.006010048	0.022050748
San Bernardino (SC)	2023	HHDT	Aggregate	50	Diesel	43725.76859	0.017461168	763.5030123
San Bernardino (SC)	2023	HHDT	Aggregate	50	Natural Gas	992.4555958	0.003449232	3.423209944

Region	**Calendar Year**	**Vehicle Category**	**Model Year**	**Speed**	**Fuel**	**VMT**	**PM10_RUNEX**	**PM10 Total**
San Bernardino (SC)	2023	HHDT	Aggregate	55	Gasoline	6.118727698	0.006272197	0.038377868
San Bernardino (SC)	2023	HHDT	Aggregate	55	Diesel	69082.59119	0.022049498	1523.236438
San Bernardino (SC)	2023	HHDT	Aggregate	55	Natural Gas	1181.927175	0.003274995	3.870805527

HARP2 - HRACalc (dated 19044) 3/4/2022 11:48:09 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_OperationsCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_OperationsNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\Ryan.Chiene\OneDrive - KH\Desktop\AERMOD RAST\Maverik Manteca\PM10_OperationsNCAcuteRisk.csv
HRA ran successfully

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 3/3/2022
** File: C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_construction\Maverik
Manteca_construction\Maverik Manteca_construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_operations\Mave
   MODELOPT DFAULT CONC
   AVERTIME 1 8 PERIOD
   URBANOPT 762148
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Maverik Manteca_construction.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   653890.813  4182777.751        7.190
** DESCRSRC On-SIte Construction
** Source Parameters **
   SRCPARAM PAREA1       9.7827E-08     3.900        44
   AREAVERT PAREA1       653890.813 4182777.751 653894.898 4182782.971
   AREAVERT PAREA1       653893.763 4182815.875 653891.267 4182901.653
   AREAVERT PAREA1       653891.124 4182928.281 653886.812 4182963.684
   AREAVERT PAREA1       653824.401 4182997.726 653722.049 4183054.463
   AREAVERT PAREA1       653625.022 4183109.877 653596.029 4183123.956
   AREAVERT PAREA1       653574.423 4183131.483 653518.339 4183141.751
   AREAVERT PAREA1       653498.496 4183143.227 653397.507 4183146.867
   AREAVERT PAREA1       653371.881 4183147.339 653338.058 4183139.167
   AREAVERT PAREA1       653369.157 4183135.535 653397.533 4183130.087
   AREAVERT PAREA1       653429.086 4183120.099 653463.136 4183105.571
```

```
   AREAVERT PAREA1       653489.469 4183091.497 653513.985 4183071.748
   AREAVERT PAREA1       653521.718 4183066.035 653538.545 4183050.037
   AREAVERT PAREA1       653547.529 4183041.587 653561.669 4183023.991
   AREAVERT PAREA1       653589.948 4182988.800 653601.815 4182973.349
   AREAVERT PAREA1       653625.427 4182943.607 653648.130 4182913.411
   AREAVERT PAREA1       653667.883 4182887.529 653678.326 4182875.042
   AREAVERT PAREA1       653690.586 4182861.874 653716.558 4182839.177
   AREAVERT PAREA1       653729.846 4182828.351 653749.038 4182815.555
   AREAVERT PAREA1       653765.771 4182805.713 653783.487 4182797.019
   AREAVERT PAREA1       653807.929 4182787.504 653829.389 4182782.045
   AREAVERT PAREA1       653844.057 4182778.185 653873.006 4182773.553
   AREAVERT PAREA1       653884.779 4182772.974 653889.025 4182775.869
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Maverik Manteca_construction.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE AERMET\2017_Stockton.SFC
```

```
   PROFFILE AERMET\2017_Stockton.PFL
   SURFDATA 23237 2017 Stockton,_CA
   UAIRDATA 23230 2017 OAKLAND/WSO_AP
   PROFBASE 7.9 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "MAVERIK MANTECA_CONSTRUCTION.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "MAVERIK MANTECA_CONSTRUCTION.AD\08H1GALL.PLT" 32
   PLOTFILE PERIOD ALL "MAVERIK MANTECA_CONSTRUCTION.AD\PE00GALL.PLT" 33
   SUMMFILE "Maverik Manteca_construction.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 3/3/2022
** File: C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_construction\Maverik
Manteca_construction\Maverik Manteca_construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_operations\Mave
   MODELOPT DFAULT CONC
   AVERTIME 1 8 PERIOD
   URBANOPT 762148
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Maverik Manteca_construction.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   653890.813  4182777.751        7.190
** DESCRSRC On-SIte Construction
** Source Parameters **
   SRCPARAM PAREA1       9.7827E-08     3.900        44
   AREAVERT PAREA1       653890.813 4182777.751 653894.898 4182782.971
   AREAVERT PAREA1       653893.763 4182815.875 653891.267 4182901.653
   AREAVERT PAREA1       653891.124 4182928.281 653886.812 4182963.684
   AREAVERT PAREA1       653824.401 4182997.726 653722.049 4183054.463
   AREAVERT PAREA1       653625.022 4183109.877 653596.029 4183123.956
   AREAVERT PAREA1       653574.423 4183131.483 653518.339 4183141.751
   AREAVERT PAREA1       653498.496 4183143.227 653397.507 4183146.867
   AREAVERT PAREA1       653371.881 4183147.339 653338.058 4183139.167
   AREAVERT PAREA1       653369.157 4183135.535 653397.533 4183130.087
   AREAVERT PAREA1       653429.086 4183120.099 653463.136 4183105.571
```

```
   AREAVERT PAREA1       653489.469 4183091.497 653513.985 4183071.748
   AREAVERT PAREA1       653521.718 4183066.035 653538.545 4183050.037
   AREAVERT PAREA1       653547.529 4183041.587 653561.669 4183023.991
   AREAVERT PAREA1       653589.948 4182988.800 653601.815 4182973.349
   AREAVERT PAREA1       653625.427 4182943.607 653648.130 4182913.411
   AREAVERT PAREA1       653667.883 4182887.529 653678.326 4182875.042
   AREAVERT PAREA1       653690.586 4182861.874 653716.558 4182839.177
   AREAVERT PAREA1       653729.846 4182828.351 653749.038 4182815.555
   AREAVERT PAREA1       653765.771 4182805.713 653783.487 4182797.019
   AREAVERT PAREA1       653807.929 4182787.504 653829.389 4182782.045
   AREAVERT PAREA1       653844.057 4182778.185 653873.006 4182773.553
   AREAVERT PAREA1       653884.779 4182772.974 653889.025 4182775.869
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Maverik Manteca_construction.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE AERMET\2017_Stockton.SFC
```

```
   PROFFILE AERMET\2017_Stockton.PFL
   SURFDATA 23237 2017 Stockton,_CA
   UAIRDATA 23230 2017 OAKLAND/WSO_AP
   PROFBASE 7.9 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "MAVERIK MANTECA_CONSTRUCTION.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "MAVERIK MANTECA_CONSTRUCTION.AD\08H1GALL.PLT" 32
   PLOTFILE PERIOD ALL "MAVERIK MANTECA_CONSTRUCTION.AD\PE00GALL.PLT" 33
   SUMMFILE "Maverik Manteca_construction.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     104       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     104       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

***   MODEL SETUP OPTIONS SUMMARY
***
- - - -

```
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  18081

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =     7.90 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.8 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Maverik Manteca_construction.err

 **File for Summary of Results:   Maverik Manteca_construction.sum

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** AREAPOLY SOURCE DATA ***
```

```
              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
 INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
  SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.97827E-07  653890.8 4182777.8     7.2     3.90      44
  0.00     YES   HRDOW
↑ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                       *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        PAREA1      ,
↑ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                      *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------


              762148.   PAREA1      ,
↑ *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE   5
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(652679.8, 4181557.0, 6.9, 6.9, 0.0); (652729.8, 4181557.0, 6.9, 6.9, 0.0);
(652779.8, 4181557.0, 6.7, 6.7, 0.0); (652829.8, 4181557.0, 6.7, 6.7, 0.0);
(652879.8, 4181557.0, 6.7, 6.7, 0.0); (652929.8, 4181557.0, 6.7, 6.7, 0.0);
(652979.8, 4181557.0, 6.8, 6.8, 0.0); (653029.8,

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4181557.0,       6.9,       6.9,       0.0);
     ( 653079.8, 4181557.0,       7.1,       7.1,       0.0);         ( 653129.8,
4181557.0,       7.2,       7.2,       0.0);
     ( 653179.8, 4181557.0,       7.0,       7.0,       0.0);         ( 653229.8,
4181557.0,       7.1,       7.1,       0.0);
     ( 653279.8, 4181557.0,       7.1,       7.1,       0.0);         ( 653329.8,
4181557.0,       7.3,       7.3,       0.0);
     ( 653379.8, 4181557.0,       7.7,       7.7,       0.0);         ( 653429.8,
4181557.0,       7.9,       7.9,       0.0);
     ( 653479.8, 4181557.0,       8.1,       8.1,       0.0);         ( 653529.8,
4181557.0,       8.3,       8.3,       0.0);
     ( 653579.8, 4181557.0,       8.3,       8.3,       0.0);         ( 653629.8,
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     ( 653779.8, 4181557.0,       8.2,       8.2,       0.0);         ( 653829.8,
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     ( 653879.8, 4181557.0,       8.2,       8.2,       0.0);         ( 653929.8,
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     ( 654079.8, 4181557.0,       8.4,       8.4,       0.0);         ( 654129.8,
4181557.0,       8.7,       8.7,       0.0);
     ( 654179.8, 4181557.0,       9.3,       9.3,       0.0);         ( 654229.8,
4181557.0,       9.7,       9.7,       0.0);
     ( 654279.8, 4181557.0,       9.7,       9.7,       0.0);         ( 654329.8,
4181557.0,       9.8,       9.8,       0.0);
     ( 654379.8, 4181557.0,       9.8,       9.8,       0.0);         ( 654429.8,
4181557.0,       9.8,       9.8,       0.0);
     ( 654479.8, 4181557.0,       9.8,       9.8,       0.0);         ( 654529.8,
4181557.0,       9.8,       9.8,       0.0);
     ( 654579.8, 4181557.0,       9.9,       9.9,       0.0);         ( 654629.8,
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4181557.0,      11.3,      11.3,       0.0);
     ( 654779.8, 4181557.0,      11.1,      11.1,       0.0);         ( 654829.8,
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     ( 654879.8, 4181557.0,      10.5,      10.5,       0.0);         ( 654929.8,
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4181557.0,      10.1,      10.1,       0.0);
     ( 655079.8, 4181557.0,      10.0,      10.0,       0.0);         ( 655129.8,
4181557.0,      10.0,      10.0,       0.0);
     ( 652679.8, 4181607.0,       8.5,       8.5,       0.0);         ( 652729.8,
4181607.0,       8.3,       8.3,       0.0);
     ( 652779.8, 4181607.0,       7.7,       7.7,       0.0);         ( 652829.8,
4181607.0,       7.7,       7.7,       0.0);
     ( 652879.8, 4181607.0,       7.7,       7.7,       0.0);         ( 652929.8,
4181607.0,       7.7,       7.7,       0.0);
     ( 652979.8, 4181607.0,       7.4,       7.4,       0.0);         ( 653029.8,
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4181607.0,   7.0,   7.0,   0.0);
     (653179.8, 4181607.0,   6.8,   6.8,   0.0);   (653229.8,
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4181607.0,   8.3,   8.3,   0.0);
     (653679.8, 4181607.0,   8.2,   8.2,   0.0);   (653729.8,
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     (654079.8, 4181607.0,   8.3,   8.3,   0.0);   (654129.8,
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     (654179.8, 4181607.0,   8.8,   8.8,   0.0);   (654229.8,
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     (654279.8, 4181607.0,   9.4,   9.4,   0.0);   (654329.8,
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     (654479.8, 4181607.0,   9.5,   9.5,   0.0);   (654529.8,
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     (654579.8, 4181607.0,   9.6,   9.6,   0.0);   (654629.8,
4181607.0,   9.7,   9.7,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (654679.8, 4181607.0,   9.8,   9.8,   0.0);   (654729.8,
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     (654779.8, 4181607.0,   10.1,   10.1,   0.0);   (654829.8,
4181607.0,   10.2,   10.2,   0.0);
     (654879.8, 4181607.0,   10.1,   10.1,   0.0);   (654929.8,

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     ( 654979.8, 4181607.0,      10.0,      10.0,       0.0);         ( 655029.8,
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     ( 655079.8, 4181607.0,       9.9,       9.9,       0.0);         ( 655129.8,
4181607.0,      10.0,      10.0,       0.0);
     ( 652679.8, 4181657.0,       6.5,       6.5,       0.0);         ( 652729.8,
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     ( 652779.8, 4181657.0,       6.6,       6.6,       0.0);         ( 652829.8,
4181657.0,       6.8,       6.8,       0.0);
     ( 652879.8, 4181657.0,       7.1,       7.1,       0.0);         ( 652929.8,
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     ( 652979.8, 4181657.0,       7.8,       7.8,       0.0);         ( 653029.8,
4181657.0,       7.5,       7.5,       0.0);
     ( 653079.8, 4181657.0,       6.8,       6.8,       0.0);         ( 653129.8,
4181657.0,       6.8,       6.8,       0.0);
     ( 653179.8, 4181657.0,       6.8,       6.8,       0.0);         ( 653229.8,
4181657.0,       6.8,       6.8,       0.0);
     ( 653279.8, 4181657.0,       6.9,       6.9,       0.0);         ( 653329.8,
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     ( 653379.8, 4181657.0,       6.9,       6.9,       0.0);         ( 653429.8,
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     ( 653479.8, 4181657.0,       7.6,       7.6,       0.0);         ( 653529.8,
4181657.0,       8.0,       8.0,       0.0);
     ( 653579.8, 4181657.0,       8.2,       8.2,       0.0);         ( 653629.8,
4181657.0,       8.1,       8.1,       0.0);
     ( 653679.8, 4181657.0,       8.1,       8.1,       0.0);         ( 653729.8,
4181657.0,       8.0,       8.0,       0.0);
     ( 653779.8, 4181657.0,       8.0,       8.0,       0.0);         ( 653829.8,
4181657.0,       8.0,       8.0,       0.0);
     ( 653879.8, 4181657.0,       8.0,       8.0,       0.0);         ( 653929.8,
4181657.0,       8.1,       8.1,       0.0);
     ( 653979.8, 4181657.0,       8.1,       8.1,       0.0);         ( 654029.8,
4181657.0,       8.2,       8.2,       0.0);
     ( 654079.8, 4181657.0,       8.2,       8.2,       0.0);         ( 654129.8,
4181657.0,       8.3,       8.3,       0.0);
     ( 654179.8, 4181657.0,       8.6,       8.6,       0.0);         ( 654229.8,
4181657.0,       8.8,       8.8,       0.0);
     ( 654279.8, 4181657.0,       9.0,       9.0,       0.0);         ( 654329.8,
4181657.0,       9.1,       9.1,       0.0);
     ( 654379.8, 4181657.0,       9.1,       9.1,       0.0);         ( 654429.8,
4181657.0,       9.2,       9.2,       0.0);
     ( 654479.8, 4181657.0,       9.2,       9.2,       0.0);         ( 654529.8,
4181657.0,       9.3,       9.3,       0.0);
     ( 654579.8, 4181657.0,       9.4,       9.4,       0.0);         ( 654629.8,
4181657.0,       9.5,       9.5,       0.0);
     ( 654679.8, 4181657.0,       9.6,       9.6,       0.0);         ( 654729.8,
4181657.0,       9.6,       9.6,       0.0);
     ( 654779.8, 4181657.0,       9.7,       9.7,       0.0);         ( 654829.8,
4181657.0,       9.8,       9.8,       0.0);
     ( 654879.8, 4181657.0,       9.8,       9.8,       0.0);         ( 654929.8,
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     ( 654979.8, 4181657.0,       9.8,       9.8,       0.0);         ( 655029.8,
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     ( 655079.8, 4181657.0,       9.8,       9.8,       0.0);         ( 655129.8,
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     ( 652679.8, 4181707.0,       6.1,       6.1,       0.0);         ( 652729.8,
4181707.0,       6.3,       6.3,       0.0);
     ( 652779.8, 4181707.0,       6.3,       6.3,       0.0);         ( 652829.8,
4181707.0,       6.5,       6.5,       0.0);
     ( 652879.8, 4181707.0,       6.7,       6.7,       0.0);         ( 652929.8,
4181707.0,       7.0,       7.0,       0.0);
     ( 652979.8, 4181707.0,       7.0,       7.0,       0.0);         ( 653029.8,
4181707.0,       6.7,       6.7,       0.0);
     ( 653079.8, 4181707.0,       6.8,       6.8,       0.0);         ( 653129.8,
4181707.0,       6.7,       6.7,       0.0);
     ( 653179.8, 4181707.0,       6.8,       6.8,       0.0);         ( 653229.8,
4181707.0,       6.8,       6.8,       0.0);
     ( 653279.8, 4181707.0,       6.8,       6.8,       0.0);         ( 653329.8,
4181707.0,       6.8,       6.8,       0.0);
     ( 653379.8, 4181707.0,       6.8,       6.8,       0.0);         ( 653429.8,
4181707.0,       6.8,       6.8,       0.0);
     ( 653479.8, 4181707.0,       7.2,       7.2,       0.0);         ( 653529.8,
4181707.0,       7.6,       7.6,       0.0);
     ( 653579.8, 4181707.0,       7.8,       7.8,       0.0);         ( 653629.8,
4181707.0,       7.9,       7.9,       0.0);
     ( 653679.8, 4181707.0,       7.9,       7.9,       0.0);         ( 653729.8,
4181707.0,       7.9,       7.9,       0.0);
     ( 653779.8, 4181707.0,       7.9,       7.9,       0.0);         ( 653829.8,
4181707.0,       7.9,       7.9,       0.0);
     ( 653879.8, 4181707.0,       7.9,       7.9,       0.0);         ( 653929.8,
4181707.0,       8.0,       8.0,       0.0);
     ( 653979.8, 4181707.0,       8.0,       8.0,       0.0);         ( 654029.8,
4181707.0,       8.1,       8.1,       0.0);
     ( 654079.8, 4181707.0,       8.2,       8.2,       0.0);         ( 654129.8,
4181707.0,       8.3,       8.3,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       11:24:15

                                PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 654179.8, 4181707.0,       8.5,       8.5,       0.0);         ( 654229.8,
4181707.0,       8.6,       8.6,       0.0);
     ( 654279.8, 4181707.0,       8.7,       8.7,       0.0);         ( 654329.8,
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4181707.0,       8.8,       8.8,       0.0);
     ( 654379.8, 4181707.0,       8.8,       8.8,       0.0);         ( 654429.8,
4181707.0,       8.8,       8.8,       0.0);
     ( 654479.8, 4181707.0,       8.9,       8.9,       0.0);         ( 654529.8,
4181707.0,       9.0,       9.0,       0.0);
     ( 654579.8, 4181707.0,       9.1,       9.1,       0.0);         ( 654629.8,
4181707.0,       9.2,       9.2,       0.0);
     ( 654679.8, 4181707.0,       9.3,       9.3,       0.0);         ( 654729.8,
4181707.0,       9.4,       9.4,       0.0);
     ( 654779.8, 4181707.0,       9.5,       9.5,       0.0);         ( 654829.8,
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     ( 654879.8, 4181707.0,       9.6,       9.6,       0.0);         ( 654929.8,
4181707.0,       9.6,       9.6,       0.0);
     ( 654979.8, 4181707.0,       9.6,       9.6,       0.0);         ( 655029.8,
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     ( 655079.8, 4181707.0,       9.7,       9.7,       0.0);         ( 655129.8,
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     ( 652779.8, 4181757.0,       6.3,       6.3,       0.0);         ( 652829.8,
4181757.0,       6.4,       6.4,       0.0);
     ( 652879.8, 4181757.0,       6.5,       6.5,       0.0);         ( 652929.8,
4181757.0,       6.6,       6.6,       0.0);
     ( 652979.8, 4181757.0,       6.7,       6.7,       0.0);         ( 653029.8,
4181757.0,       6.7,       6.7,       0.0);
     ( 653079.8, 4181757.0,       6.7,       6.7,       0.0);         ( 653129.8,
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     ( 653179.8, 4181757.0,       6.8,       6.8,       0.0);         ( 653229.8,
4181757.0,       6.8,       6.8,       0.0);
     ( 653279.8, 4181757.0,       6.8,       6.8,       0.0);         ( 653329.8,
4181757.0,       6.8,       6.8,       0.0);
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     ( 653679.8, 4181757.0,       7.7,       7.7,       0.0);         ( 653729.8,
4181757.0,       7.8,       7.8,       0.0);
     ( 653779.8, 4181757.0,       7.8,       7.8,       0.0);         ( 653829.8,
4181757.0,       7.8,       7.8,       0.0);
     ( 653879.8, 4181757.0,       7.9,       7.9,       0.0);         ( 653929.8,
4181757.0,       7.9,       7.9,       0.0);
     ( 653979.8, 4181757.0,       8.0,       8.0,       0.0);         ( 654029.8,
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     ( 654079.8, 4181757.0,       8.2,       8.2,       0.0);         ( 654129.8,
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     ( 654179.8, 4181757.0,       8.4,       8.4,       0.0);         ( 654229.8,
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     ( 654279.8, 4181757.0,       8.5,       8.5,       0.0);         ( 654329.8,
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     ( 653279.8, 4181807.0,       6.8,       6.8,       0.0);         ( 653329.8,
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***       11:24:15

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***       11:24:15

                                  PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)
```

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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
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(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(654979.8, 4182007.0, 8.6, 8.6, 0.0); (655029.8,

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     ( 653379.8, 4182057.0,       6.8,       6.8,       0.0);         ( 653429.8,
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     ( 654179.8, 4182057.0,       7.9,       7.9,       0.0);         ( 654229.8,
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     ( 654279.8, 4182057.0,       8.0,       8.0,       0.0);         ( 654329.8,
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     ( 654379.8, 4182057.0,       8.1,       8.1,       0.0);         ( 654429.8,
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     ( 654579.8, 4182057.0,       8.3,       8.3,       0.0);         ( 654629.8,
4182057.0,       8.4,       8.4,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***       11:24:15

                                  PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       11:24:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(654679.8, 4182157.0, 8.6, 8.6, 0.0); (654729.8, 4182157.0, 8.7, 8.7, 0.0);
(654779.8, 4182157.0, 8.7, 8.7, 0.0); (654829.8, 4182157.0, 8.8, 8.8, 0.0);
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     ( 654779.8, 4182207.0,       8.8,       8.8,       0.0);         ( 654829.8,
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(653979.8, 4182257.0, 7.9, 7.9, 0.0); (654029.8, 4182257.0, 8.1, 8.1, 0.0);
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(654979.8, 4182257.0, 8.5, 8.5, 0.0); (655029.8, 4182257.0, 8.4, 8.4, 0.0);
(655079.8, 4182257.0, 8.4, 8.4, 0.0); (655129.8, 4182257.0, 8.3, 8.3, 0.0);
(652679.8, 4182307.0, 6.0, 6.0, 0.0); (652729.8, 4182307.0, 6.2, 6.2, 0.0);
(652779.8, 4182307.0, 6.2, 6.2, 0.0); (652829.8, 4182307.0, 6.4, 6.4, 0.0);
(652879.8, 4182307.0, 6.6, 6.6, 0.0); (652929.8, 4182307.0, 6.7, 6.7, 0.0);
(652979.8, 4182307.0, 6.7, 6.7, 0.0); (653029.8, 4182307.0, 6.8, 6.8, 0.0);
(653079.8, 4182307.0, 6.7, 6.7, 0.0); (653129.8, 4182307.0, 6.7, 6.7, 0.0);
(653179.8, 4182307.0, 6.5, 6.5, 0.0); (653229.8,

```
4182307.0,       6.3,       6.3,       0.0);
     ( 653279.8, 4182307.0,       6.1,       6.1,       0.0);         ( 653329.8,
4182307.0,       6.7,       6.7,       0.0);
     ( 653379.8, 4182307.0,       6.8,       6.8,       0.0);         ( 653429.8,
4182307.0,       6.8,       6.8,       0.0);
     ( 653479.8, 4182307.0,       6.8,       6.8,       0.0);         ( 653529.8,
4182307.0,       6.9,       6.9,       0.0);
     ( 653579.8, 4182307.0,       7.0,       7.0,       0.0);         ( 653629.8,
4182307.0,       7.0,       7.0,       0.0);
     ( 653679.8, 4182307.0,       7.1,       7.1,       0.0);         ( 653729.8,
4182307.0,       7.1,       7.1,       0.0);
     ( 653779.8, 4182307.0,       7.2,       7.2,       0.0);         ( 653829.8,
4182307.0,       7.4,       7.4,       0.0);
     ( 653879.8, 4182307.0,       7.5,       7.5,       0.0);         ( 653929.8,
4182307.0,       7.7,       7.7,       0.0);
     ( 653979.8, 4182307.0,       7.9,       7.9,       0.0);         ( 654029.8,
4182307.0,       8.1,       8.1,       0.0);
     ( 654079.8, 4182307.0,       8.2,       8.2,       0.0);         ( 654129.8,
4182307.0,       8.3,       8.3,       0.0);
     ( 654179.8, 4182307.0,       8.3,       8.3,       0.0);         ( 654229.8,
4182307.0,       8.3,       8.3,       0.0);
     ( 654279.8, 4182307.0,       8.3,       8.3,       0.0);         ( 654329.8,
4182307.0,       8.3,       8.3,       0.0);
     ( 654379.8, 4182307.0,       8.3,       8.3,       0.0);         ( 654429.8,
4182307.0,       8.3,       8.3,       0.0);
     ( 654479.8, 4182307.0,       8.3,       8.3,       0.0);         ( 654529.8,
4182307.0,       8.3,       8.3,       0.0);
     ( 654579.8, 4182307.0,       8.4,       8.4,       0.0);         ( 654629.8,
4182307.0,       8.5,       8.5,       0.0);
     ( 654679.8, 4182307.0,       8.6,       8.6,       0.0);         ( 654729.8,
4182307.0,       8.7,       8.7,       0.0);
     ( 654779.8, 4182307.0,       8.7,       8.7,       0.0);         ( 654829.8,
4182307.0,       8.7,       8.7,       0.0);
     ( 654879.8, 4182307.0,       8.7,       8.7,       0.0);         ( 654929.8,
4182307.0,       8.6,       8.6,       0.0);
     ( 654979.8, 4182307.0,       8.6,       8.6,       0.0);         ( 655029.8,
4182307.0,       8.5,       8.5,       0.0);
     ( 655079.8, 4182307.0,       8.4,       8.4,       0.0);         ( 655129.8,
4182307.0,       8.4,       8.4,       0.0);
     ( 652679.8, 4182357.0,       5.8,       5.8,       0.0);         ( 652729.8,
4182357.0,       5.9,       5.9,       0.0);
     ( 652779.8, 4182357.0,       6.2,       6.2,       0.0);         ( 652829.8,
4182357.0,       6.3,       6.3,       0.0);
     ( 652879.8, 4182357.0,       6.5,       6.5,       0.0);         ( 652929.8,
4182357.0,       6.6,       6.6,       0.0);
     ( 652979.8, 4182357.0,       6.4,       6.4,       0.0);         ( 653029.8,
4182357.0,       6.3,       6.3,       0.0);
     ( 653079.8, 4182357.0,       6.2,       6.2,       0.0);         ( 653129.8,
4182357.0,       6.1,       6.1,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(653179.8, 4182357.0, 5.9, 5.9, 0.0); (653229.8, 4182357.0, 5.7, 5.7, 0.0);
(653279.8, 4182357.0, 5.5, 5.5, 0.0); (653329.8, 4182357.0, 5.5, 5.5, 0.0);
(653379.8, 4182357.0, 5.5, 5.5, 0.0); (653429.8, 4182357.0, 5.8, 5.8, 0.0);
(653479.8, 4182357.0, 6.7, 6.7, 0.0); (653529.8, 4182357.0, 6.9, 6.9, 0.0);
(653579.8, 4182357.0, 7.0, 7.0, 0.0); (653629.8, 4182357.0, 7.0, 7.0, 0.0);
(653679.8, 4182357.0, 7.1, 7.1, 0.0); (653729.8, 4182357.0, 7.1, 7.1, 0.0);
(653779.8, 4182357.0, 7.2, 7.2, 0.0); (653829.8, 4182357.0, 7.3, 7.3, 0.0);
(653879.8, 4182357.0, 7.5, 7.5, 0.0); (653929.8, 4182357.0, 7.7, 7.7, 0.0);
(653979.8, 4182357.0, 7.9, 7.9, 0.0); (654029.8, 4182357.0, 8.1, 8.1, 0.0);
(654079.8, 4182357.0, 8.2, 8.2, 0.0); (654129.8, 4182357.0, 8.3, 8.3, 0.0);
(654179.8, 4182357.0, 8.3, 8.3, 0.0); (654229.8, 4182357.0, 8.4, 8.4, 0.0);
(654279.8, 4182357.0, 8.4, 8.4, 0.0); (654329.8, 4182357.0, 8.4, 8.4, 0.0);
(654379.8, 4182357.0, 8.3, 8.3, 0.0); (654429.8, 4182357.0, 8.4, 8.4, 0.0);
(654479.8, 4182357.0, 8.4, 8.4, 0.0); (654529.8, 4182357.0, 8.4, 8.4, 0.0);
(654579.8, 4182357.0, 8.5, 8.5, 0.0); (654629.8, 4182357.0, 8.6, 8.6, 0.0);
(654679.8, 4182357.0, 8.6, 8.6, 0.0); (654729.8, 4182357.0, 8.6, 8.6, 0.0);
(654779.8, 4182357.0, 8.7, 8.7, 0.0); (654829.8, 4182357.0, 8.7, 8.7, 0.0);
(654879.8, 4182357.0, 8.7, 8.7, 0.0); (654929.8, 4182357.0, 8.6, 8.6, 0.0);
(654979.8, 4182357.0, 8.6, 8.6, 0.0); (655029.8, 4182357.0, 8.5, 8.5, 0.0);
(655079.8, 4182357.0, 8.4, 8.4, 0.0); (655129.8,

```
4182357.0,       8.4,       8.4,       0.0);
     ( 652679.8, 4182407.0,       5.7,       5.7,       0.0);         ( 652729.8,
4182407.0,       6.0,       6.0,       0.0);
     ( 652779.8, 4182407.0,       6.1,       6.1,       0.0);         ( 652829.8,
4182407.0,       6.0,       6.0,       0.0);
     ( 652879.8, 4182407.0,       5.1,       5.1,       0.0);         ( 652929.8,
4182407.0,       5.3,       5.3,       0.0);
     ( 652979.8, 4182407.0,       5.6,       5.6,       0.0);         ( 653029.8,
4182407.0,       5.9,       5.9,       0.0);
     ( 653079.8, 4182407.0,       5.7,       5.7,       0.0);         ( 653129.8,
4182407.0,       5.6,       5.6,       0.0);
     ( 653179.8, 4182407.0,       5.4,       5.4,       0.0);         ( 653229.8,
4182407.0,       5.4,       5.4,       0.0);
     ( 653279.8, 4182407.0,       5.3,       5.3,       0.0);         ( 653329.8,
4182407.0,       5.3,       5.3,       0.0);
     ( 653379.8, 4182407.0,       5.3,       5.3,       0.0);         ( 653429.8,
4182407.0,       5.7,       5.7,       0.0);
     ( 653479.8, 4182407.0,       6.8,       6.8,       0.0);         ( 653529.8,
4182407.0,       6.9,       6.9,       0.0);
     ( 653579.8, 4182407.0,       6.9,       6.9,       0.0);         ( 653629.8,
4182407.0,       7.0,       7.0,       0.0);
     ( 653679.8, 4182407.0,       7.0,       7.0,       0.0);         ( 653729.8,
4182407.0,       7.1,       7.1,       0.0);
     ( 653779.8, 4182407.0,       7.2,       7.2,       0.0);         ( 653829.8,
4182407.0,       7.3,       7.3,       0.0);
     ( 653879.8, 4182407.0,       7.4,       7.4,       0.0);         ( 653929.8,
4182407.0,       7.6,       7.6,       0.0);
     ( 653979.8, 4182407.0,       7.8,       7.8,       0.0);         ( 654029.8,
4182407.0,       8.0,       8.0,       0.0);
     ( 654079.8, 4182407.0,       8.2,       8.2,       0.0);         ( 654129.8,
4182407.0,       8.3,       8.3,       0.0);
     ( 654179.8, 4182407.0,       8.3,       8.3,       0.0);         ( 654229.8,
4182407.0,       8.4,       8.4,       0.0);
     ( 654279.8, 4182407.0,       8.3,       8.3,       0.0);         ( 654329.8,
4182407.0,       8.4,       8.4,       0.0);
     ( 654379.8, 4182407.0,       8.4,       8.4,       0.0);         ( 654429.8,
4182407.0,       8.4,       8.4,       0.0);
     ( 654479.8, 4182407.0,       8.4,       8.4,       0.0);         ( 654529.8,
4182407.0,       8.5,       8.5,       0.0);
     ( 654579.8, 4182407.0,       8.5,       8.5,       0.0);         ( 654629.8,
4182407.0,       8.5,       8.5,       0.0);
     ( 654679.8, 4182407.0,       8.6,       8.6,       0.0);         ( 654729.8,
4182407.0,       8.6,       8.6,       0.0);
     ( 654779.8, 4182407.0,       8.6,       8.6,       0.0);         ( 654829.8,
4182407.0,       8.6,       8.6,       0.0);
     ( 654879.8, 4182407.0,       8.6,       8.6,       0.0);         ( 654929.8,
4182407.0,       8.6,       8.6,       0.0);
     ( 654979.8, 4182407.0,       8.5,       8.5,       0.0);         ( 655029.8,
4182407.0,       8.5,       8.5,       0.0);
     ( 655079.8, 4182407.0,       8.4,       8.4,       0.0);         ( 655129.8,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 652679.8, 4182457.0,       5.8,       5.8,       0.0);         ( 652729.8,
4182457.0,       6.1,       6.1,       0.0);
     ( 652779.8, 4182457.0,       6.0,       6.0,       0.0);         ( 652829.8,
4182457.0,       5.9,       5.9,       0.0);
     ( 652879.8, 4182457.0,       4.7,       4.7,       0.0);         ( 652929.8,
4182457.0,       4.8,       4.8,       0.0);
     ( 652979.8, 4182457.0,       5.2,       5.2,       0.0);         ( 653029.8,
4182457.0,       5.6,       5.6,       0.0);
     ( 653079.8, 4182457.0,       5.4,       5.4,       0.0);         ( 653129.8,
4182457.0,       5.4,       5.4,       0.0);
     ( 653179.8, 4182457.0,       5.3,       5.3,       0.0);         ( 653229.8,
4182457.0,       5.3,       5.3,       0.0);
     ( 653279.8, 4182457.0,       5.4,       5.4,       0.0);         ( 653329.8,
4182457.0,       5.4,       5.4,       0.0);
     ( 653379.8, 4182457.0,       5.3,       5.3,       0.0);         ( 653429.8,
4182457.0,       5.6,       5.6,       0.0);
     ( 653479.8, 4182457.0,       6.4,       6.4,       0.0);         ( 653529.8,
4182457.0,       6.8,       6.8,       0.0);
     ( 653579.8, 4182457.0,       6.8,       6.8,       0.0);         ( 653629.8,
4182457.0,       6.9,       6.9,       0.0);
     ( 653679.8, 4182457.0,       7.0,       7.0,       0.0);         ( 653729.8,
4182457.0,       7.0,       7.0,       0.0);
     ( 653779.8, 4182457.0,       7.1,       7.1,       0.0);         ( 653829.8,
4182457.0,       7.2,       7.2,       0.0);
     ( 653879.8, 4182457.0,       7.4,       7.4,       0.0);         ( 653929.8,
4182457.0,       7.5,       7.5,       0.0);
     ( 653979.8, 4182457.0,       7.8,       7.8,       0.0);         ( 654029.8,
4182457.0,       8.0,       8.0,       0.0);
     ( 654079.8, 4182457.0,       8.1,       8.1,       0.0);         ( 654129.8,
4182457.0,       8.3,       8.3,       0.0);
     ( 654179.8, 4182457.0,       8.3,       8.3,       0.0);         ( 654229.8,
4182457.0,       8.4,       8.4,       0.0);
     ( 654279.8, 4182457.0,       8.3,       8.3,       0.0);         ( 654329.8,
4182457.0,       8.4,       8.4,       0.0);
     ( 654379.8, 4182457.0,       8.4,       8.4,       0.0);         ( 654429.8,
4182457.0,       8.4,       8.4,       0.0);
     ( 654479.8, 4182457.0,       8.4,       8.4,       0.0);         ( 654529.8,
```

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4182457.0,       8.5,       8.5,       0.0);
     ( 654579.8, 4182457.0,       8.5,       8.5,       0.0);         ( 654629.8,
4182457.0,       8.5,       8.5,       0.0);
     ( 654679.8, 4182457.0,       8.5,       8.5,       0.0);         ( 654729.8,
4182457.0,       8.5,       8.5,       0.0);
     ( 654779.8, 4182457.0,       8.5,       8.5,       0.0);         ( 654829.8,
4182457.0,       8.5,       8.5,       0.0);
     ( 654879.8, 4182457.0,       8.5,       8.5,       0.0);         ( 654929.8,
4182457.0,       8.5,       8.5,       0.0);
     ( 654979.8, 4182457.0,       8.5,       8.5,       0.0);         ( 655029.8,
4182457.0,       8.5,       8.5,       0.0);
     ( 655079.8, 4182457.0,       8.4,       8.4,       0.0);         ( 655129.8,
4182457.0,       8.4,       8.4,       0.0);
     ( 652679.8, 4182507.0,       5.8,       5.8,       0.0);         ( 652729.8,
4182507.0,       6.0,       6.0,       0.0);
     ( 652779.8, 4182507.0,       5.8,       5.8,       0.0);         ( 652829.8,
4182507.0,       5.8,       5.8,       0.0);
     ( 652879.8, 4182507.0,       4.8,       4.8,       0.0);         ( 652929.8,
4182507.0,       5.2,       5.2,       0.0);
     ( 652979.8, 4182507.0,       5.5,       5.5,       0.0);         ( 653029.8,
4182507.0,       5.5,       5.5,       0.0);
     ( 653079.8, 4182507.0,       5.4,       5.4,       0.0);         ( 653129.8,
4182507.0,       5.3,       5.3,       0.0);
     ( 653179.8, 4182507.0,       5.3,       5.3,       0.0);         ( 653229.8,
4182507.0,       5.4,       5.4,       0.0);
     ( 653279.8, 4182507.0,       5.5,       5.5,       0.0);         ( 653329.8,
4182507.0,       5.6,       5.6,       0.0);
     ( 653379.8, 4182507.0,       5.4,       5.4,       0.0);         ( 653429.8,
4182507.0,       5.3,       5.3,       0.0);
     ( 653479.8, 4182507.0,       5.4,       5.4,       0.0);         ( 653529.8,
4182507.0,       6.1,       6.1,       0.0);
     ( 653579.8, 4182507.0,       6.6,       6.6,       0.0);         ( 653629.8,
4182507.0,       6.8,       6.8,       0.0);
     ( 653679.8, 4182507.0,       6.9,       6.9,       0.0);         ( 653729.8,
4182507.0,       7.0,       7.0,       0.0);
     ( 653779.8, 4182507.0,       7.1,       7.1,       0.0);         ( 653829.8,
4182507.0,       7.2,       7.2,       0.0);
     ( 653879.8, 4182507.0,       7.3,       7.3,       0.0);         ( 653929.8,
4182507.0,       7.5,       7.5,       0.0);
     ( 653979.8, 4182507.0,       7.7,       7.7,       0.0);         ( 654029.8,
4182507.0,       7.9,       7.9,       0.0);
     ( 654079.8, 4182507.0,       8.1,       8.1,       0.0);         ( 654129.8,
4182507.0,       8.2,       8.2,       0.0);
     ( 654179.8, 4182507.0,       8.3,       8.3,       0.0);         ( 654229.8,
4182507.0,       8.3,       8.3,       0.0);
     ( 654279.8, 4182507.0,       8.3,       8.3,       0.0);         ( 654329.8,
4182507.0,       8.4,       8.4,       0.0);
     ( 654379.8, 4182507.0,       8.4,       8.4,       0.0);         ( 654429.8,
4182507.0,       8.4,       8.4,       0.0);
     ( 654479.8, 4182507.0,       8.4,       8.4,       0.0);         ( 654529.8,
```

4182507.0,   8.4,   8.4,   0.0);
     (654579.8, 4182507.0,   8.4,   8.4,   0.0);   (654629.8,
4182507.0,   8.4,   8.4,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (654679.8, 4182507.0,   8.4,   8.4,   0.0);   (654729.8,
4182507.0,   8.4,   8.4,   0.0);
     (654779.8, 4182507.0,   8.5,   8.5,   0.0);   (654829.8,
4182507.0,   8.4,   8.4,   0.0);
     (654879.8, 4182507.0,   8.4,   8.4,   0.0);   (654929.8,
4182507.0,   8.4,   8.4,   0.0);
     (654979.8, 4182507.0,   8.4,   8.4,   0.0);   (655029.8,
4182507.0,   8.4,   8.4,   0.0);
     (655079.8, 4182507.0,   8.4,   8.4,   0.0);   (655129.8,
4182507.0,   8.4,   8.4,   0.0);
     (652679.8, 4182557.0,   5.8,   5.8,   0.0);   (652729.8,
4182557.0,   5.8,   5.8,   0.0);
     (652779.8, 4182557.0,   5.8,   5.8,   0.0);   (652829.8,
4182557.0,   5.9,   5.9,   0.0);
     (652879.8, 4182557.0,   5.8,   5.8,   0.0);   (652929.8,
4182557.0,   5.6,   5.6,   0.0);
     (652979.8, 4182557.0,   5.5,   5.5,   0.0);   (653029.8,
4182557.0,   5.5,   5.5,   0.0);
     (653079.8, 4182557.0,   5.4,   5.4,   0.0);   (653129.8,
4182557.0,   5.3,   5.3,   0.0);
     (653179.8, 4182557.0,   5.4,   5.4,   0.0);   (653229.8,
4182557.0,   5.5,   5.5,   0.0);
     (653279.8, 4182557.0,   5.7,   5.7,   0.0);   (653329.8,
4182557.0,   5.8,   5.8,   0.0);
     (653379.8, 4182557.0,   5.7,   5.7,   0.0);   (653429.8,
4182557.0,   5.6,   5.6,   0.0);
     (653479.8, 4182557.0,   5.5,   5.5,   0.0);   (653529.8,
4182557.0,   5.8,   5.8,   0.0);
     (653579.8, 4182557.0,   6.4,   6.4,   0.0);   (653629.8,
4182557.0,   6.7,   6.7,   0.0);
     (653679.8, 4182557.0,   6.8,   6.8,   0.0);   (653729.8,
4182557.0,   6.9,   6.9,   0.0);
     (653779.8, 4182557.0,   7.0,   7.0,   0.0);   (653829.8,
4182557.0,   7.1,   7.1,   0.0);
     (653879.8, 4182557.0,   7.2,   7.2,   0.0);   (653929.8,

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4182557.0,       7.4,       7.4,       0.0);
     ( 653979.8, 4182557.0,       7.6,       7.6,       0.0);         ( 654029.8,
4182557.0,       7.8,       7.8,       0.0);
     ( 654079.8, 4182557.0,       8.0,       8.0,       0.0);         ( 654129.8,
4182557.0,       8.1,       8.1,       0.0);
     ( 654179.8, 4182557.0,       8.2,       8.2,       0.0);         ( 654229.8,
4182557.0,       8.2,       8.2,       0.0);
     ( 654279.8, 4182557.0,       8.3,       8.3,       0.0);         ( 654329.8,
4182557.0,       8.3,       8.3,       0.0);
     ( 654379.8, 4182557.0,       8.3,       8.3,       0.0);         ( 654429.8,
4182557.0,       8.3,       8.3,       0.0);
     ( 654479.8, 4182557.0,       8.3,       8.3,       0.0);         ( 654529.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 654579.8, 4182557.0,       8.4,       8.4,       0.0);         ( 654629.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 654679.8, 4182557.0,       8.4,       8.4,       0.0);         ( 654729.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 654779.8, 4182557.0,       8.4,       8.4,       0.0);         ( 654829.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 654879.8, 4182557.0,       8.4,       8.4,       0.0);         ( 654929.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 654979.8, 4182557.0,       8.4,       8.4,       0.0);         ( 655029.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 655079.8, 4182557.0,       8.3,       8.3,       0.0);         ( 655129.8,
4182557.0,       8.4,       8.4,       0.0);
     ( 652679.8, 4182607.0,       5.8,       5.8,       0.0);         ( 652729.8,
4182607.0,       5.9,       5.9,       0.0);
     ( 652779.8, 4182607.0,       5.9,       5.9,       0.0);         ( 652829.8,
4182607.0,       5.9,       5.9,       0.0);
     ( 652879.8, 4182607.0,       5.9,       5.9,       0.0);         ( 652929.8,
4182607.0,       5.8,       5.8,       0.0);
     ( 652979.8, 4182607.0,       5.6,       5.6,       0.0);         ( 653029.8,
4182607.0,       5.5,       5.5,       0.0);
     ( 653079.8, 4182607.0,       5.4,       5.4,       0.0);         ( 653129.8,
4182607.0,       5.4,       5.4,       0.0);
     ( 653179.8, 4182607.0,       5.4,       5.4,       0.0);         ( 653229.8,
4182607.0,       5.4,       5.4,       0.0);
     ( 653279.8, 4182607.0,       5.6,       5.6,       0.0);         ( 653329.8,
4182607.0,       5.9,       5.9,       0.0);
     ( 653379.8, 4182607.0,       6.0,       6.0,       0.0);         ( 653429.8,
4182607.0,       6.1,       6.1,       0.0);
     ( 653479.8, 4182607.0,       6.0,       6.0,       0.0);         ( 653529.8,
4182607.0,       6.0,       6.0,       0.0);
     ( 653579.8, 4182607.0,       6.3,       6.3,       0.0);         ( 653629.8,
4182607.0,       6.5,       6.5,       0.0);
     ( 653679.8, 4182607.0,       6.7,       6.7,       0.0);         ( 653729.8,
4182607.0,       6.9,       6.9,       0.0);
     ( 653779.8, 4182607.0,       7.0,       7.0,       0.0);         ( 653829.8,
4182607.0,       7.1,       7.1,       0.0);
     ( 653879.8, 4182607.0,       7.2,       7.2,       0.0);         ( 653929.8,
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4182607.0,   7.4,   7.4,   0.0);
     (653979.8, 4182607.0,   7.5,   7.5,   0.0);   (654029.8,
4182607.0,   7.8,   7.8,   0.0);
     (654079.8, 4182607.0,   7.9,   7.9,   0.0);   (654129.8,
4182607.0,   8.0,   8.0,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (654179.8, 4182607.0,   8.1,   8.1,   0.0);   (654229.8,
4182607.0,   8.2,   8.2,   0.0);
     (654279.8, 4182607.0,   8.2,   8.2,   0.0);   (654329.8,
4182607.0,   8.2,   8.2,   0.0);
     (654379.8, 4182607.0,   8.2,   8.2,   0.0);   (654429.8,
4182607.0,   8.2,   8.2,   0.0);
     (654479.8, 4182607.0,   8.2,   8.2,   0.0);   (654529.8,
4182607.0,   8.3,   8.3,   0.0);
     (654579.8, 4182607.0,   8.3,   8.3,   0.0);   (654629.8,
4182607.0,   8.3,   8.3,   0.0);
     (654679.8, 4182607.0,   8.3,   8.3,   0.0);   (654729.8,
4182607.0,   8.3,   8.3,   0.0);
     (654779.8, 4182607.0,   8.3,   8.3,   0.0);   (654829.8,
4182607.0,   8.3,   8.3,   0.0);
     (654879.8, 4182607.0,   8.3,   8.3,   0.0);   (654929.8,
4182607.0,   8.3,   8.3,   0.0);
     (654979.8, 4182607.0,   8.3,   8.3,   0.0);   (655029.8,
4182607.0,   8.3,   8.3,   0.0);
     (655079.8, 4182607.0,   8.3,   8.3,   0.0);   (655129.8,
4182607.0,   8.4,   8.4,   0.0);
     (652679.8, 4182657.0,   6.0,   6.0,   0.0);   (652729.8,
4182657.0,   5.9,   5.9,   0.0);
     (652779.8, 4182657.0,   6.1,   6.1,   0.0);   (652829.8,
4182657.0,   6.0,   6.0,   0.0);
     (652879.8, 4182657.0,   6.1,   6.1,   0.0);   (652929.8,
4182657.0,   5.9,   5.9,   0.0);
     (652979.8, 4182657.0,   5.7,   5.7,   0.0);   (653029.8,
4182657.0,   5.6,   5.6,   0.0);
     (653079.8, 4182657.0,   5.4,   5.4,   0.0);   (653129.8,
4182657.0,   5.4,   5.4,   0.0);
     (653179.8, 4182657.0,   5.4,   5.4,   0.0);   (653229.8,
4182657.0,   5.4,   5.4,   0.0);
     (653279.8, 4182657.0,   5.7,   5.7,   0.0);   (653329.8,

```
4182657.0,       6.1,       6.1,       0.0);
     ( 653379.8, 4182657.0,       6.4,       6.4,       0.0);         ( 653429.8,
4182657.0,       6.6,       6.6,       0.0);
     ( 653479.8, 4182657.0,       6.6,       6.6,       0.0);         ( 653529.8,
4182657.0,       6.4,       6.4,       0.0);
     ( 653579.8, 4182657.0,       6.4,       6.4,       0.0);         ( 653629.8,
4182657.0,       6.5,       6.5,       0.0);
     ( 653679.8, 4182657.0,       6.7,       6.7,       0.0);         ( 653729.8,
4182657.0,       6.8,       6.8,       0.0);
     ( 653779.8, 4182657.0,       6.9,       6.9,       0.0);         ( 653829.8,
4182657.0,       7.0,       7.0,       0.0);
     ( 653879.8, 4182657.0,       7.2,       7.2,       0.0);         ( 653929.8,
4182657.0,       7.3,       7.3,       0.0);
     ( 653979.8, 4182657.0,       7.5,       7.5,       0.0);         ( 654029.8,
4182657.0,       7.7,       7.7,       0.0);
     ( 654079.8, 4182657.0,       7.8,       7.8,       0.0);         ( 654129.8,
4182657.0,       7.9,       7.9,       0.0);
     ( 654179.8, 4182657.0,       8.0,       8.0,       0.0);         ( 654229.8,
4182657.0,       8.1,       8.1,       0.0);
     ( 654279.8, 4182657.0,       8.1,       8.1,       0.0);         ( 654329.8,
4182657.0,       8.1,       8.1,       0.0);
     ( 654379.8, 4182657.0,       8.1,       8.1,       0.0);         ( 654429.8,
4182657.0,       8.2,       8.2,       0.0);
     ( 654479.8, 4182657.0,       8.2,       8.2,       0.0);         ( 654529.8,
4182657.0,       8.2,       8.2,       0.0);
     ( 654579.8, 4182657.0,       8.2,       8.2,       0.0);         ( 654629.8,
4182657.0,       8.2,       8.2,       0.0);
     ( 654679.8, 4182657.0,       8.2,       8.2,       0.0);         ( 654729.8,
4182657.0,       8.2,       8.2,       0.0);
     ( 654779.8, 4182657.0,       8.2,       8.2,       0.0);         ( 654829.8,
4182657.0,       8.3,       8.3,       0.0);
     ( 654879.8, 4182657.0,       8.3,       8.3,       0.0);         ( 654929.8,
4182657.0,       8.3,       8.3,       0.0);
     ( 654979.8, 4182657.0,       8.4,       8.4,       0.0);         ( 655029.8,
4182657.0,       8.4,       8.4,       0.0);
     ( 655079.8, 4182657.0,       8.5,       8.5,       0.0);         ( 655129.8,
4182657.0,       8.7,       8.7,       0.0);
     ( 652679.8, 4182707.0,       5.9,       5.9,       0.0);         ( 652729.8,
4182707.0,       5.9,       5.9,       0.0);
     ( 652779.8, 4182707.0,       6.1,       6.1,       0.0);         ( 652829.8,
4182707.0,       6.0,       6.0,       0.0);
     ( 652879.8, 4182707.0,       6.1,       6.1,       0.0);         ( 652929.8,
4182707.0,       6.0,       6.0,       0.0);
     ( 652979.8, 4182707.0,       5.8,       5.8,       0.0);         ( 653029.8,
4182707.0,       5.6,       5.6,       0.0);
     ( 653079.8, 4182707.0,       5.4,       5.4,       0.0);         ( 653129.8,
4182707.0,       5.4,       5.4,       0.0);
     ( 653179.8, 4182707.0,       5.3,       5.3,       0.0);         ( 653229.8,
4182707.0,       5.4,       5.4,       0.0);
     ( 653279.8, 4182707.0,       5.8,       5.8,       0.0);         ( 653329.8,
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4182707.0, 6.2, 6.2, 0.0);
     (653379.8, 4182707.0, 6.6, 6.6, 0.0); (653429.8,
4182707.0, 6.8, 6.8, 0.0);
     (653479.8, 4182707.0, 6.8, 6.8, 0.0); (653529.8,
4182707.0, 6.7, 6.7, 0.0);
     (653579.8, 4182707.0, 6.5, 6.5, 0.0); (653629.8,
4182707.0, 6.5, 6.5, 0.0);

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

     (653679.8, 4182707.0, 6.6, 6.6, 0.0); (653729.8,
4182707.0, 6.8, 6.8, 0.0);
     (653779.8, 4182707.0, 6.9, 6.9, 0.0); (653829.8,
4182707.0, 7.0, 7.0, 0.0);
     (653879.8, 4182707.0, 7.2, 7.2, 0.0); (653929.8,
4182707.0, 7.3, 7.3, 0.0);
     (653979.8, 4182707.0, 7.5, 7.5, 0.0); (654029.8,
4182707.0, 7.6, 7.6, 0.0);
     (654079.8, 4182707.0, 7.7, 7.7, 0.0); (654129.8,
4182707.0, 7.8, 7.8, 0.0);
     (654179.8, 4182707.0, 7.9, 7.9, 0.0); (654229.8,
4182707.0, 8.0, 8.0, 0.0);
     (654279.8, 4182707.0, 8.0, 8.0, 0.0); (654329.8,
4182707.0, 8.1, 8.1, 0.0);
     (654379.8, 4182707.0, 8.1, 8.1, 0.0); (654429.8,
4182707.0, 8.1, 8.1, 0.0);
     (654479.8, 4182707.0, 8.1, 8.1, 0.0); (654529.8,
4182707.0, 8.2, 8.2, 0.0);
     (654579.8, 4182707.0, 8.2, 8.2, 0.0); (654629.8,
4182707.0, 8.2, 8.2, 0.0);
     (654679.8, 4182707.0, 8.2, 8.2, 0.0); (654729.8,
4182707.0, 8.2, 8.2, 0.0);
     (654779.8, 4182707.0, 8.3, 8.3, 0.0); (654829.8,
4182707.0, 8.3, 8.3, 0.0);
     (654879.8, 4182707.0, 8.4, 8.4, 0.0); (654929.8,
4182707.0, 8.4, 8.4, 0.0);
     (654979.8, 4182707.0, 8.5, 8.5, 0.0); (655029.8,
4182707.0, 8.6, 8.6, 0.0);
     (655079.8, 4182707.0, 8.7, 8.7, 0.0); (655129.8,
4182707.0, 8.8, 8.8, 0.0);
     (652679.8, 4182757.0, 5.8, 5.8, 0.0); (652729.8,

```
4182757.0,       5.7,       5.7,       0.0);
     ( 652779.8, 4182757.0,       6.1,       6.1,       0.0);         ( 652829.8,
4182757.0,       6.0,       6.0,       0.0);
     ( 652879.8, 4182757.0,       6.0,       6.0,       0.0);         ( 652929.8,
4182757.0,       5.9,       5.9,       0.0);
     ( 652979.8, 4182757.0,       5.8,       5.8,       0.0);         ( 653029.8,
4182757.0,       5.7,       5.7,       0.0);
     ( 653079.8, 4182757.0,       5.4,       5.4,       0.0);         ( 653129.8,
4182757.0,       5.4,       5.4,       0.0);
     ( 653179.8, 4182757.0,       5.4,       5.4,       0.0);         ( 653229.8,
4182757.0,       5.5,       5.5,       0.0);
     ( 653279.8, 4182757.0,       6.0,       6.0,       0.0);         ( 653329.8,
4182757.0,       6.4,       6.4,       0.0);
     ( 653379.8, 4182757.0,       6.8,       6.8,       0.0);         ( 653429.8,
4182757.0,       6.8,       6.8,       0.0);
     ( 653479.8, 4182757.0,       6.8,       6.8,       0.0);         ( 653529.8,
4182757.0,       6.7,       6.7,       0.0);
     ( 653579.8, 4182757.0,       6.6,       6.6,       0.0);         ( 653629.8,
4182757.0,       6.7,       6.7,       0.0);
     ( 653679.8, 4182757.0,       6.8,       6.8,       0.0);         ( 653729.8,
4182757.0,       6.8,       6.8,       0.0);
     ( 653779.8, 4182757.0,       6.8,       6.8,       0.0);         ( 653829.8,
4182757.0,       6.9,       6.9,       0.0);
     ( 653879.8, 4182757.0,       7.1,       7.1,       0.0);         ( 653929.8,
4182757.0,       7.3,       7.3,       0.0);
     ( 653979.8, 4182757.0,       7.5,       7.5,       0.0);         ( 654029.8,
4182757.0,       7.6,       7.6,       0.0);
     ( 654079.8, 4182757.0,       7.7,       7.7,       0.0);         ( 654129.8,
4182757.0,       7.8,       7.8,       0.0);
     ( 654179.8, 4182757.0,       7.8,       7.8,       0.0);         ( 654229.8,
4182757.0,       7.9,       7.9,       0.0);
     ( 654279.8, 4182757.0,       8.0,       8.0,       0.0);         ( 654329.8,
4182757.0,       8.0,       8.0,       0.0);
     ( 654379.8, 4182757.0,       8.1,       8.1,       0.0);         ( 654429.8,
4182757.0,       8.1,       8.1,       0.0);
     ( 654479.8, 4182757.0,       8.1,       8.1,       0.0);         ( 654529.8,
4182757.0,       8.2,       8.2,       0.0);
     ( 654579.8, 4182757.0,       8.2,       8.2,       0.0);         ( 654629.8,
4182757.0,       8.2,       8.2,       0.0);
     ( 654679.8, 4182757.0,       8.2,       8.2,       0.0);         ( 654729.8,
4182757.0,       8.3,       8.3,       0.0);
     ( 654779.8, 4182757.0,       8.4,       8.4,       0.0);         ( 654829.8,
4182757.0,       8.4,       8.4,       0.0);
     ( 654879.8, 4182757.0,       8.4,       8.4,       0.0);         ( 654929.8,
4182757.0,       8.5,       8.5,       0.0);
     ( 654979.8, 4182757.0,       8.6,       8.6,       0.0);         ( 655029.8,
4182757.0,       8.7,       8.7,       0.0);
     ( 655079.8, 4182757.0,       8.8,       8.8,       0.0);         ( 655129.8,
4182757.0,       9.0,       9.0,       0.0);
     ( 652679.8, 4182807.0,       5.7,       5.7,       0.0);         ( 652729.8,
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4182807.0, 5.9, 5.9, 0.0);
     (652779.8, 4182807.0, 6.0, 6.0, 0.0); (652829.8,
4182807.0, 6.2, 6.2, 0.0);
     (652879.8, 4182807.0, 6.0, 6.0, 0.0); (652929.8,
4182807.0, 5.9, 5.9, 0.0);
     (652979.8, 4182807.0, 6.0, 6.0, 0.0); (653029.8,
4182807.0, 5.8, 5.8, 0.0);
     (653079.8, 4182807.0, 5.6, 5.6, 0.0); (653129.8,
4182807.0, 5.5, 5.5, 0.0);

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

     (653179.8, 4182807.0, 5.6, 5.6, 0.0); (653229.8,
4182807.0, 5.9, 5.9, 0.0);
     (653279.8, 4182807.0, 6.3, 6.3, 0.0); (653329.8,
4182807.0, 6.6, 6.6, 0.0);
     (653379.8, 4182807.0, 6.7, 6.7, 0.0); (653429.8,
4182807.0, 6.8, 6.8, 0.0);
     (653479.8, 4182807.0, 6.8, 6.8, 0.0); (653529.8,
4182807.0, 6.8, 6.8, 0.0);
     (653579.8, 4182807.0, 6.7, 6.7, 0.0); (653629.8,
4182807.0, 6.7, 6.7, 0.0);
     (653679.8, 4182807.0, 6.9, 6.9, 0.0); (653729.8,
4182807.0, 6.9, 6.9, 0.0);
     (653929.8, 4182807.0, 7.3, 7.3, 0.0); (653979.8,
4182807.0, 7.5, 7.5, 0.0);
     (654029.8, 4182807.0, 7.6, 7.6, 0.0); (654079.8,
4182807.0, 7.7, 7.7, 0.0);
     (654129.8, 4182807.0, 7.8, 7.8, 0.0); (654179.8,
4182807.0, 7.8, 7.8, 0.0);
     (654229.8, 4182807.0, 7.9, 7.9, 0.0); (654279.8,
4182807.0, 8.0, 8.0, 0.0);
     (654329.8, 4182807.0, 8.1, 8.1, 0.0); (654379.8,
4182807.0, 8.1, 8.1, 0.0);
     (654429.8, 4182807.0, 8.2, 8.2, 0.0); (654479.8,
4182807.0, 8.2, 8.2, 0.0);
     (654529.8, 4182807.0, 8.2, 8.2, 0.0); (654579.8,
4182807.0, 8.3, 8.3, 0.0);
     (654629.8, 4182807.0, 8.3, 8.3, 0.0); (654679.8,
4182807.0, 8.3, 8.3, 0.0);
     (654729.8, 4182807.0, 8.4, 8.4, 0.0); (654779.8,

```
4182807.0,       8.4,       8.4,       0.0);
     ( 654829.8, 4182807.0,       8.4,       8.4,       0.0);         ( 654879.8,
4182807.0,       8.5,       8.5,       0.0);
     ( 654929.8, 4182807.0,       8.6,       8.6,       0.0);         ( 654979.8,
4182807.0,       8.6,       8.6,       0.0);
     ( 655029.8, 4182807.0,       8.8,       8.8,       0.0);         ( 655079.8,
4182807.0,       8.9,       8.9,       0.0);
     ( 655129.8, 4182807.0,       9.1,       9.1,       0.0);         ( 652679.8,
4182857.0,       5.7,       5.7,       0.0);
     ( 652729.8, 4182857.0,       5.8,       5.8,       0.0);         ( 652779.8,
4182857.0,       6.0,       6.0,       0.0);
     ( 652829.8, 4182857.0,       6.0,       6.0,       0.0);         ( 652879.8,
4182857.0,       6.1,       6.1,       0.0);
     ( 652929.8, 4182857.0,       6.0,       6.0,       0.0);         ( 652979.8,
4182857.0,       6.2,       6.2,       0.0);
     ( 653029.8, 4182857.0,       6.1,       6.1,       0.0);         ( 653079.8,
4182857.0,       6.1,       6.1,       0.0);
     ( 653129.8, 4182857.0,       6.2,       6.2,       0.0);         ( 653179.8,
4182857.0,       6.3,       6.3,       0.0);
     ( 653229.8, 4182857.0,       6.5,       6.5,       0.0);         ( 653279.8,
4182857.0,       6.7,       6.7,       0.0);
     ( 653329.8, 4182857.0,       6.8,       6.8,       0.0);         ( 653379.8,
4182857.0,       6.8,       6.8,       0.0);
     ( 653429.8, 4182857.0,       6.9,       6.9,       0.0);         ( 653479.8,
4182857.0,       6.9,       6.9,       0.0);
     ( 653529.8, 4182857.0,       6.8,       6.8,       0.0);         ( 653579.8,
4182857.0,       6.8,       6.8,       0.0);
     ( 653629.8, 4182857.0,       6.8,       6.8,       0.0);         ( 653679.8,
4182857.0,       6.9,       6.9,       0.0);
     ( 653929.8, 4182857.0,       7.4,       7.4,       0.0);         ( 653979.8,
4182857.0,       7.5,       7.5,       0.0);
     ( 654029.8, 4182857.0,       7.6,       7.6,       0.0);         ( 654079.8,
4182857.0,       7.7,       7.7,       0.0);
     ( 654129.8, 4182857.0,       7.8,       7.8,       0.0);         ( 654179.8,
4182857.0,       7.8,       7.8,       0.0);
     ( 654229.8, 4182857.0,       7.9,       7.9,       0.0);         ( 654279.8,
4182857.0,       8.0,       8.0,       0.0);
     ( 654329.8, 4182857.0,       8.1,       8.1,       0.0);         ( 654379.8,
4182857.0,       8.2,       8.2,       0.0);
     ( 654429.8, 4182857.0,       8.2,       8.2,       0.0);         ( 654479.8,
4182857.0,       8.3,       8.3,       0.0);
     ( 654529.8, 4182857.0,       8.3,       8.3,       0.0);         ( 654579.8,
4182857.0,       8.4,       8.4,       0.0);
     ( 654629.8, 4182857.0,       8.4,       8.4,       0.0);         ( 654679.8,
4182857.0,       8.4,       8.4,       0.0);
     ( 654729.8, 4182857.0,       8.4,       8.4,       0.0);         ( 654779.8,
4182857.0,       8.4,       8.4,       0.0);
     ( 654829.8, 4182857.0,       8.5,       8.5,       0.0);         ( 654879.8,
4182857.0,       8.5,       8.5,       0.0);
     ( 654929.8, 4182857.0,       8.6,       8.6,       0.0);         ( 654979.8,
```

4182857.0,   8.7,   8.7,   0.0);
     (655029.8, 4182857.0,   8.8,   8.8,   0.0);   (655079.8,
4182857.0,   9.0,   9.0,   0.0);
     (655129.8, 4182857.0,   9.2,   9.2,   0.0);   (652679.8,
4182907.0,   5.7,   5.7,   0.0);
     (652729.8, 4182907.0,   5.8,   5.8,   0.0);   (652779.8,
4182907.0,   6.1,   6.1,   0.0);
     (652829.8, 4182907.0,   6.2,   6.2,   0.0);   (652879.8,
4182907.0,   6.3,   6.3,   0.0);
     (652929.8, 4182907.0,   6.3,   6.3,   0.0);   (652979.8,
4182907.0,   6.3,   6.3,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (653029.8, 4182907.0,   6.5,   6.5,   0.0);   (653079.8,
4182907.0,   6.6,   6.6,   0.0);
     (653129.8, 4182907.0,   6.7,   6.7,   0.0);   (653179.8,
4182907.0,   6.8,   6.8,   0.0);
     (653229.8, 4182907.0,   6.8,   6.8,   0.0);   (653279.8,
4182907.0,   6.9,   6.9,   0.0);
     (653329.8, 4182907.0,   6.9,   6.9,   0.0);   (653379.8,
4182907.0,   7.0,   7.0,   0.0);
     (653429.8, 4182907.0,   7.0,   7.0,   0.0);   (653479.8,
4182907.0,   7.1,   7.1,   0.0);
     (653529.8, 4182907.0,   7.1,   7.1,   0.0);   (653579.8,
4182907.0,   7.0,   7.0,   0.0);
     (653629.8, 4182907.0,   7.0,   7.0,   0.0);   (653929.8,
4182907.0,   7.5,   7.5,   0.0);
     (653979.8, 4182907.0,   7.6,   7.6,   0.0);   (654029.8,
4182907.0,   7.7,   7.7,   0.0);
     (654079.8, 4182907.0,   7.7,   7.7,   0.0);   (654129.8,
4182907.0,   7.8,   7.8,   0.0);
     (654179.8, 4182907.0,   7.9,   7.9,   0.0);   (654229.8,
4182907.0,   7.9,   7.9,   0.0);
     (654279.8, 4182907.0,   8.0,   8.0,   0.0);   (654329.8,
4182907.0,   8.1,   8.1,   0.0);
     (654379.8, 4182907.0,   8.2,   8.2,   0.0);   (654429.8,
4182907.0,   8.3,   8.3,   0.0);
     (654479.8, 4182907.0,   8.3,   8.3,   0.0);   (654529.8,
4182907.0,   8.4,   8.4,   0.0);
     (654579.8, 4182907.0,   8.4,   8.4,   0.0);   (654629.8,

```
4182907.0,       8.4,       8.4,       0.0);
     ( 654679.8, 4182907.0,       8.4,       8.4,       0.0);         ( 654729.8,
4182907.0,       8.5,       8.5,       0.0);
     ( 654779.8, 4182907.0,       8.5,       8.5,       0.0);         ( 654829.8,
4182907.0,       8.5,       8.5,       0.0);
     ( 654879.8, 4182907.0,       8.6,       8.6,       0.0);         ( 654929.8,
4182907.0,       8.6,       8.6,       0.0);
     ( 654979.8, 4182907.0,       8.7,       8.7,       0.0);         ( 655029.8,
4182907.0,       8.9,       8.9,       0.0);
     ( 655079.8, 4182907.0,       9.1,       9.1,       0.0);         ( 655129.8,
4182907.0,       9.3,       9.3,       0.0);
     ( 652679.8, 4182957.0,       5.5,       5.5,       0.0);         ( 652729.8,
4182957.0,       5.7,       5.7,       0.0);
     ( 652779.8, 4182957.0,       6.0,       6.0,       0.0);         ( 652829.8,
4182957.0,       6.1,       6.1,       0.0);
     ( 652879.8, 4182957.0,       6.3,       6.3,       0.0);         ( 652929.8,
4182957.0,       6.4,       6.4,       0.0);
     ( 652979.8, 4182957.0,       6.5,       6.5,       0.0);         ( 653029.8,
4182957.0,       6.7,       6.7,       0.0);
     ( 653079.8, 4182957.0,       6.8,       6.8,       0.0);         ( 653129.8,
4182957.0,       6.8,       6.8,       0.0);
     ( 653179.8, 4182957.0,       6.8,       6.8,       0.0);         ( 653229.8,
4182957.0,       6.9,       6.9,       0.0);
     ( 653279.8, 4182957.0,       7.0,       7.0,       0.0);         ( 653329.8,
4182957.0,       7.1,       7.1,       0.0);
     ( 653379.8, 4182957.0,       7.1,       7.1,       0.0);         ( 653429.8,
4182957.0,       7.2,       7.2,       0.0);
     ( 653479.8, 4182957.0,       7.2,       7.2,       0.0);         ( 653529.8,
4182957.0,       7.2,       7.2,       0.0);
     ( 653579.8, 4182957.0,       7.2,       7.2,       0.0);         ( 653929.8,
4182957.0,       7.7,       7.7,       0.0);
     ( 653979.8, 4182957.0,       7.8,       7.8,       0.0);         ( 654029.8,
4182957.0,       7.8,       7.8,       0.0);
     ( 654079.8, 4182957.0,       7.8,       7.8,       0.0);         ( 654129.8,
4182957.0,       7.9,       7.9,       0.0);
     ( 654179.8, 4182957.0,       7.9,       7.9,       0.0);         ( 654229.8,
4182957.0,       8.0,       8.0,       0.0);
     ( 654279.8, 4182957.0,       8.0,       8.0,       0.0);         ( 654329.8,
4182957.0,       8.1,       8.1,       0.0);
     ( 654379.8, 4182957.0,       8.2,       8.2,       0.0);         ( 654429.8,
4182957.0,       8.3,       8.3,       0.0);
     ( 654479.8, 4182957.0,       8.4,       8.4,       0.0);         ( 654529.8,
4182957.0,       8.4,       8.4,       0.0);
     ( 654579.8, 4182957.0,       8.5,       8.5,       0.0);         ( 654629.8,
4182957.0,       8.5,       8.5,       0.0);
     ( 654679.8, 4182957.0,       8.5,       8.5,       0.0);         ( 654729.8,
4182957.0,       8.5,       8.5,       0.0);
     ( 654779.8, 4182957.0,       8.5,       8.5,       0.0);         ( 654829.8,
4182957.0,       8.6,       8.6,       0.0);
     ( 654879.8, 4182957.0,       8.6,       8.6,       0.0);         ( 654929.8,
```

4182957.0,   8.7,   8.7,   0.0);
     (654979.8, 4182957.0,   8.8,   8.8,   0.0);   (655029.8,
4182957.0,   8.9,   8.9,   0.0);
     (655079.8, 4182957.0,   9.1,   9.1,   0.0);   (655129.8,
4182957.0,   9.3,   9.3,   0.0);
     (652679.8, 4183007.0,   5.4,   5.4,   0.0);   (652729.8,
4183007.0,   5.4,   5.4,   0.0);
     (652779.8, 4183007.0,   5.5,   5.5,   0.0);   (652829.8,
4183007.0,   6.1,   6.1,   0.0);
     (652879.8, 4183007.0,   6.5,   6.5,   0.0);   (652929.8,
4183007.0,   6.7,   6.7,   0.0);
     (652979.8, 4183007.0,   6.7,   6.7,   0.0);   (653029.8,
4183007.0,   6.8,   6.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (653079.8, 4183007.0,   6.8,   6.8,   0.0);   (653129.8,
4183007.0,   6.8,   6.8,   0.0);
     (653179.8, 4183007.0,   6.9,   6.9,   0.0);   (653229.8,
4183007.0,   7.0,   7.0,   0.0);
     (653279.8, 4183007.0,   7.1,   7.1,   0.0);   (653329.8,
4183007.0,   7.1,   7.1,   0.0);
     (653379.8, 4183007.0,   7.2,   7.2,   0.0);   (653429.8,
4183007.0,   7.3,   7.3,   0.0);
     (653479.8, 4183007.0,   7.3,   7.3,   0.0);   (653529.8,
4183007.0,   7.3,   7.3,   0.0);
     (653579.8, 4183007.0,   7.4,   7.4,   0.0);   (653829.8,
4183007.0,   7.7,   7.7,   0.0);
     (653879.8, 4183007.0,   7.8,   7.8,   0.0);   (653929.8,
4183007.0,   7.8,   7.8,   0.0);
     (653979.8, 4183007.0,   7.9,   7.9,   0.0);   (654029.8,
4183007.0,   7.9,   7.9,   0.0);
     (654079.8, 4183007.0,   8.0,   8.0,   0.0);   (654129.8,
4183007.0,   8.0,   8.0,   0.0);
     (654179.8, 4183007.0,   8.0,   8.0,   0.0);   (654229.8,
4183007.0,   8.0,   8.0,   0.0);
     (654279.8, 4183007.0,   8.1,   8.1,   0.0);   (654329.8,
4183007.0,   8.1,   8.1,   0.0);
     (654379.8, 4183007.0,   8.2,   8.2,   0.0);   (654429.8,
4183007.0,   8.2,   8.2,   0.0);
     (654479.8, 4183007.0,   8.3,   8.3,   0.0);   (654529.8,

```
4183007.0,       8.4,       8.4,       0.0);
     ( 654579.8, 4183007.0,       8.4,       8.4,       0.0);         ( 654629.8,
4183007.0,       8.5,       8.5,       0.0);
     ( 654679.8, 4183007.0,       8.5,       8.5,       0.0);         ( 654729.8,
4183007.0,       8.6,       8.6,       0.0);
     ( 654779.8, 4183007.0,       8.6,       8.6,       0.0);         ( 654829.8,
4183007.0,       8.6,       8.6,       0.0);
     ( 654879.8, 4183007.0,       8.7,       8.7,       0.0);         ( 654929.8,
4183007.0,       8.7,       8.7,       0.0);
     ( 654979.8, 4183007.0,       8.8,       8.8,       0.0);         ( 655029.8,
4183007.0,       8.9,       8.9,       0.0);
     ( 655079.8, 4183007.0,       9.1,       9.1,       0.0);         ( 655129.8,
4183007.0,       9.3,       9.3,       0.0);
     ( 652679.8, 4183057.0,       5.4,       5.4,       0.0);         ( 652729.8,
4183057.0,       5.5,       5.5,       0.0);
     ( 652779.8, 4183057.0,       5.6,       5.6,       0.0);         ( 652829.8,
4183057.0,       6.4,       6.4,       0.0);
     ( 652879.8, 4183057.0,       6.7,       6.7,       0.0);         ( 652929.8,
4183057.0,       6.8,       6.8,       0.0);
     ( 652979.8, 4183057.0,       6.8,       6.8,       0.0);         ( 653029.8,
4183057.0,       6.8,       6.8,       0.0);
     ( 653079.8, 4183057.0,       6.8,       6.8,       0.0);         ( 653129.8,
4183057.0,       6.8,       6.8,       0.0);
     ( 653179.8, 4183057.0,       6.9,       6.9,       0.0);         ( 653229.8,
4183057.0,       7.0,       7.0,       0.0);
     ( 653279.8, 4183057.0,       7.1,       7.1,       0.0);         ( 653329.8,
4183057.0,       7.1,       7.1,       0.0);
     ( 653379.8, 4183057.0,       7.2,       7.2,       0.0);         ( 653429.8,
4183057.0,       7.3,       7.3,       0.0);
     ( 653479.8, 4183057.0,       7.3,       7.3,       0.0);         ( 653529.8,
4183057.0,       7.4,       7.4,       0.0);
     ( 653729.8, 4183057.0,       7.7,       7.7,       0.0);         ( 653779.8,
4183057.0,       7.8,       7.8,       0.0);
     ( 653829.8, 4183057.0,       7.9,       7.9,       0.0);         ( 653879.8,
4183057.0,       7.9,       7.9,       0.0);
     ( 653929.8, 4183057.0,       8.0,       8.0,       0.0);         ( 653979.8,
4183057.0,       8.0,       8.0,       0.0);
     ( 654029.8, 4183057.0,       8.1,       8.1,       0.0);         ( 654079.8,
4183057.0,       8.1,       8.1,       0.0);
     ( 654129.8, 4183057.0,       8.1,       8.1,       0.0);         ( 654179.8,
4183057.0,       8.1,       8.1,       0.0);
     ( 654229.8, 4183057.0,       8.1,       8.1,       0.0);         ( 654279.8,
4183057.0,       8.1,       8.1,       0.0);
     ( 654329.8, 4183057.0,       8.1,       8.1,       0.0);         ( 654379.8,
4183057.0,       8.2,       8.2,       0.0);
     ( 654429.8, 4183057.0,       8.2,       8.2,       0.0);         ( 654479.8,
4183057.0,       8.2,       8.2,       0.0);
     ( 654529.8, 4183057.0,       8.3,       8.3,       0.0);         ( 654579.8,
4183057.0,       8.4,       8.4,       0.0);
     ( 654629.8, 4183057.0,       8.4,       8.4,       0.0);         ( 654679.8,
```

4183057.0, 8.5, 8.5, 0.0);
     (654729.8, 4183057.0, 8.6, 8.6, 0.0); (654779.8,
4183057.0, 8.6, 8.6, 0.0);
     (654829.8, 4183057.0, 8.6, 8.6, 0.0); (654879.8,
4183057.0, 8.7, 8.7, 0.0);
     (654929.8, 4183057.0, 8.7, 8.7, 0.0); (654979.8,
4183057.0, 8.8, 8.8, 0.0);
     (655029.8, 4183057.0, 8.9, 8.9, 0.0); (655079.8,
4183057.0, 9.0, 9.0, 0.0);
     (655129.8, 4183057.0, 9.1, 9.1, 0.0); (652679.8,
4183107.0, 6.2, 6.2, 0.0);
     (652729.8, 4183107.0, 6.6, 6.6, 0.0); (652779.8,
4183107.0, 6.8, 6.8, 0.0);
     (652829.8, 4183107.0, 6.8, 6.8, 0.0); (652879.8,
4183107.0, 6.8, 6.8, 0.0);

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

     (652929.8, 4183107.0, 6.8, 6.8, 0.0); (652979.8,
4183107.0, 6.8, 6.8, 0.0);
     (653029.8, 4183107.0, 6.8, 6.8, 0.0); (653079.8,
4183107.0, 6.8, 6.8, 0.0);
     (653129.8, 4183107.0, 6.8, 6.8, 0.0); (653179.8,
4183107.0, 6.9, 6.9, 0.0);
     (653229.8, 4183107.0, 6.9, 6.9, 0.0); (653279.8,
4183107.0, 7.0, 7.0, 0.0);
     (653329.8, 4183107.0, 7.1, 7.1, 0.0); (653379.8,
4183107.0, 7.1, 7.1, 0.0);
     (653429.8, 4183107.0, 7.2, 7.2, 0.0); (653679.8,
4183107.0, 7.8, 7.8, 0.0);
     (653729.8, 4183107.0, 7.9, 7.9, 0.0); (653779.8,
4183107.0, 8.0, 8.0, 0.0);
     (653829.8, 4183107.0, 8.0, 8.0, 0.0); (653879.8,
4183107.0, 8.1, 8.1, 0.0);
     (653929.8, 4183107.0, 8.1, 8.1, 0.0); (653979.8,
4183107.0, 8.2, 8.2, 0.0);
     (654029.8, 4183107.0, 8.2, 8.2, 0.0); (654079.8,
4183107.0, 8.2, 8.2, 0.0);
     (654129.8, 4183107.0, 8.2, 8.2, 0.0); (654179.8,
4183107.0, 8.2, 8.2, 0.0);
     (654229.8, 4183107.0, 8.2, 8.2, 0.0); (654279.8,

```
4183107.0,       8.2,       8.2,       0.0);
     ( 654329.8, 4183107.0,       8.2,       8.2,       0.0);         ( 654379.8,
4183107.0,       8.2,       8.2,       0.0);
     ( 654429.8, 4183107.0,       8.2,       8.2,       0.0);         ( 654479.8,
4183107.0,       8.3,       8.3,       0.0);
     ( 654529.8, 4183107.0,       8.3,       8.3,       0.0);         ( 654579.8,
4183107.0,       8.3,       8.3,       0.0);
     ( 654629.8, 4183107.0,       8.4,       8.4,       0.0);         ( 654679.8,
4183107.0,       8.5,       8.5,       0.0);
     ( 654729.8, 4183107.0,       8.5,       8.5,       0.0);         ( 654779.8,
4183107.0,       8.6,       8.6,       0.0);
     ( 654829.8, 4183107.0,       8.6,       8.6,       0.0);         ( 654879.8,
4183107.0,       8.7,       8.7,       0.0);
     ( 654929.8, 4183107.0,       8.7,       8.7,       0.0);         ( 654979.8,
4183107.0,       8.7,       8.7,       0.0);
     ( 655029.8, 4183107.0,       8.8,       8.8,       0.0);         ( 655079.8,
4183107.0,       8.9,       8.9,       0.0);
     ( 655129.8, 4183107.0,       9.0,       9.0,       0.0);         ( 652679.8,
4183157.0,       7.1,       7.1,       0.0);
     ( 652729.8, 4183157.0,       7.1,       7.1,       0.0);         ( 652779.8,
4183157.0,       7.0,       7.0,       0.0);
     ( 652829.8, 4183157.0,       6.9,       6.9,       0.0);         ( 652879.8,
4183157.0,       6.8,       6.8,       0.0);
     ( 652929.8, 4183157.0,       6.8,       6.8,       0.0);         ( 652979.8,
4183157.0,       6.8,       6.8,       0.0);
     ( 653029.8, 4183157.0,       6.8,       6.8,       0.0);         ( 653079.8,
4183157.0,       6.8,       6.8,       0.0);
     ( 653129.8, 4183157.0,       6.8,       6.8,       0.0);         ( 653179.8,
4183157.0,       6.8,       6.8,       0.0);
     ( 653229.8, 4183157.0,       6.8,       6.8,       0.0);         ( 653279.8,
4183157.0,       6.8,       6.8,       0.0);
     ( 653329.8, 4183157.0,       6.9,       6.9,       0.0);         ( 653379.8,
4183157.0,       7.0,       7.0,       0.0);
     ( 653429.8, 4183157.0,       7.2,       7.2,       0.0);         ( 653479.8,
4183157.0,       7.4,       7.4,       0.0);
     ( 653529.8, 4183157.0,       7.6,       7.6,       0.0);         ( 653579.8,
4183157.0,       7.7,       7.7,       0.0);
     ( 653629.8, 4183157.0,       7.8,       7.8,       0.0);         ( 653679.8,
4183157.0,       7.9,       7.9,       0.0);
     ( 653729.8, 4183157.0,       8.0,       8.0,       0.0);         ( 653779.8,
4183157.0,       8.1,       8.1,       0.0);
     ( 653829.8, 4183157.0,       8.2,       8.2,       0.0);         ( 653879.8,
4183157.0,       8.2,       8.2,       0.0);
     ( 653929.8, 4183157.0,       8.2,       8.2,       0.0);         ( 653979.8,
4183157.0,       8.3,       8.3,       0.0);
     ( 654029.8, 4183157.0,       8.3,       8.3,       0.0);         ( 654079.8,
4183157.0,       8.3,       8.3,       0.0);
     ( 654129.8, 4183157.0,       8.3,       8.3,       0.0);         ( 654179.8,
4183157.0,       8.3,       8.3,       0.0);
     ( 654229.8, 4183157.0,       8.3,       8.3,       0.0);         ( 654279.8,
```

4183157.0,   8.3,   8.3,   0.0);
     (654329.8, 4183157.0,   8.3,   8.3,   0.0);   (654379.8,
4183157.0,   8.3,   8.3,   0.0);
     (654429.8, 4183157.0,   8.3,   8.3,   0.0);   (654479.8,
4183157.0,   8.3,   8.3,   0.0);
     (654529.8, 4183157.0,   8.4,   8.4,   0.0);   (654579.8,
4183157.0,   8.4,   8.4,   0.0);
     (654629.8, 4183157.0,   8.4,   8.4,   0.0);   (654679.8,
4183157.0,   8.5,   8.5,   0.0);
     (654729.8, 4183157.0,   8.5,   8.5,   0.0);   (654779.8,
4183157.0,   8.6,   8.6,   0.0);
     (654829.8, 4183157.0,   8.6,   8.6,   0.0);   (654879.8,
4183157.0,   8.6,   8.6,   0.0);
     (654929.8, 4183157.0,   8.6,   8.6,   0.0);   (654979.8,
4183157.0,   8.6,   8.6,   0.0);
     (655029.8, 4183157.0,   8.7,   8.7,   0.0);   (655079.8,
4183157.0,   8.7,   8.7,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (655129.8, 4183157.0,   8.8,   8.8,   0.0);   (652679.8,
4183207.0,   7.1,   7.1,   0.0);
     (652729.8, 4183207.0,   7.1,   7.1,   0.0);   (652779.8,
4183207.0,   7.0,   7.0,   0.0);
     (652829.8, 4183207.0,   6.9,   6.9,   0.0);   (652879.8,
4183207.0,   6.8,   6.8,   0.0);
     (652929.8, 4183207.0,   6.8,   6.8,   0.0);   (652979.8,
4183207.0,   6.8,   6.8,   0.0);
     (653029.8, 4183207.0,   6.8,   6.8,   0.0);   (653079.8,
4183207.0,   6.8,   6.8,   0.0);
     (653129.8, 4183207.0,   6.8,   6.8,   0.0);   (653179.8,
4183207.0,   6.8,   6.8,   0.0);
     (653229.8, 4183207.0,   6.8,   6.8,   0.0);   (653279.8,
4183207.0,   6.8,   6.8,   0.0);
     (653329.8, 4183207.0,   6.8,   6.8,   0.0);   (653379.8,
4183207.0,   6.9,   6.9,   0.0);
     (653429.8, 4183207.0,   7.1,   7.1,   0.0);   (653479.8,
4183207.0,   7.4,   7.4,   0.0);
     (653529.8, 4183207.0,   7.6,   7.6,   0.0);   (653579.8,
4183207.0,   7.8,   7.8,   0.0);
     (653629.8, 4183207.0,   7.9,   7.9,   0.0);   (653679.8,

```
4183207.0,       8.1,       8.1,       0.0);
     ( 653729.8, 4183207.0,       8.2,       8.2,       0.0);         ( 653779.8,
4183207.0,       8.3,       8.3,       0.0);
     ( 653829.8, 4183207.0,       8.3,       8.3,       0.0);         ( 653879.8,
4183207.0,       8.3,       8.3,       0.0);
     ( 653929.8, 4183207.0,       8.3,       8.3,       0.0);         ( 653979.8,
4183207.0,       8.3,       8.3,       0.0);
     ( 654029.8, 4183207.0,       8.3,       8.3,       0.0);         ( 654079.8,
4183207.0,       8.4,       8.4,       0.0);
     ( 654129.8, 4183207.0,       8.4,       8.4,       0.0);         ( 654179.8,
4183207.0,       8.4,       8.4,       0.0);
     ( 654229.8, 4183207.0,       8.4,       8.4,       0.0);         ( 654279.8,
4183207.0,       8.3,       8.3,       0.0);
     ( 654329.8, 4183207.0,       8.3,       8.3,       0.0);         ( 654379.8,
4183207.0,       8.3,       8.3,       0.0);
     ( 654429.8, 4183207.0,       8.3,       8.3,       0.0);         ( 654479.8,
4183207.0,       8.4,       8.4,       0.0);
     ( 654529.8, 4183207.0,       8.4,       8.4,       0.0);         ( 654579.8,
4183207.0,       8.4,       8.4,       0.0);
     ( 654629.8, 4183207.0,       8.4,       8.4,       0.0);         ( 654679.8,
4183207.0,       8.4,       8.4,       0.0);
     ( 654729.8, 4183207.0,       8.5,       8.5,       0.0);         ( 654779.8,
4183207.0,       8.5,       8.5,       0.0);
     ( 654829.8, 4183207.0,       8.5,       8.5,       0.0);         ( 654879.8,
4183207.0,       8.5,       8.5,       0.0);
     ( 654929.8, 4183207.0,       8.6,       8.6,       0.0);         ( 654979.8,
4183207.0,       8.6,       8.6,       0.0);
     ( 655029.8, 4183207.0,       8.6,       8.6,       0.0);         ( 655079.8,
4183207.0,       8.7,       8.7,       0.0);
     ( 655129.8, 4183207.0,       8.7,       8.7,       0.0);         ( 652679.8,
4183257.0,       6.5,       6.5,       0.0);
     ( 652729.8, 4183257.0,       6.8,       6.8,       0.0);         ( 652779.8,
4183257.0,       6.9,       6.9,       0.0);
     ( 652829.8, 4183257.0,       6.8,       6.8,       0.0);         ( 652879.8,
4183257.0,       6.8,       6.8,       0.0);
     ( 652929.8, 4183257.0,       6.8,       6.8,       0.0);         ( 652979.8,
4183257.0,       6.8,       6.8,       0.0);
     ( 653029.8, 4183257.0,       6.8,       6.8,       0.0);         ( 653079.8,
4183257.0,       6.8,       6.8,       0.0);
     ( 653129.8, 4183257.0,       6.8,       6.8,       0.0);         ( 653179.8,
4183257.0,       6.8,       6.8,       0.0);
     ( 653229.8, 4183257.0,       6.8,       6.8,       0.0);         ( 653279.8,
4183257.0,       6.8,       6.8,       0.0);
     ( 653329.8, 4183257.0,       6.8,       6.8,       0.0);         ( 653379.8,
4183257.0,       7.0,       7.0,       0.0);
     ( 653429.8, 4183257.0,       7.2,       7.2,       0.0);         ( 653479.8,
4183257.0,       7.4,       7.4,       0.0);
     ( 653529.8, 4183257.0,       7.7,       7.7,       0.0);         ( 653579.8,
4183257.0,       7.9,       7.9,       0.0);
     ( 653629.8, 4183257.0,       8.0,       8.0,       0.0);         ( 653679.8,
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4183257.0, 8.2, 8.2, 0.0);
     (653729.8, 4183257.0, 8.3, 8.3, 0.0); (653779.8,
4183257.0, 8.4, 8.4, 0.0);
     (653829.8, 4183257.0, 8.4, 8.4, 0.0); (653879.8,
4183257.0, 8.4, 8.4, 0.0);
     (653929.8, 4183257.0, 8.4, 8.4, 0.0); (653979.8,
4183257.0, 8.4, 8.4, 0.0);
     (654029.8, 4183257.0, 8.4, 8.4, 0.0); (654079.8,
4183257.0, 8.4, 8.4, 0.0);
     (654129.8, 4183257.0, 8.4, 8.4, 0.0); (654179.8,
4183257.0, 8.4, 8.4, 0.0);
     (654229.8, 4183257.0, 8.4, 8.4, 0.0); (654279.8,
4183257.0, 8.4, 8.4, 0.0);
     (654329.8, 4183257.0, 8.4, 8.4, 0.0); (654379.8,
4183257.0, 8.4, 8.4, 0.0);
     (654429.8, 4183257.0, 8.4, 8.4, 0.0); (654479.8,
4183257.0, 8.4, 8.4, 0.0);
     (654529.8, 4183257.0, 8.4, 8.4, 0.0); (654579.8,
4183257.0, 8.4, 8.4, 0.0);

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (654629.8, 4183257.0, 8.4, 8.4, 0.0); (654679.8,
4183257.0, 8.4, 8.4, 0.0);
     (654729.8, 4183257.0, 8.4, 8.4, 0.0); (654779.8,
4183257.0, 8.4, 8.4, 0.0);
     (654829.8, 4183257.0, 8.5, 8.5, 0.0); (654879.8,
4183257.0, 8.5, 8.5, 0.0);
     (654929.8, 4183257.0, 8.5, 8.5, 0.0); (654979.8,
4183257.0, 8.5, 8.5, 0.0);
     (655029.8, 4183257.0, 8.6, 8.6, 0.0); (655079.8,
4183257.0, 8.6, 8.6, 0.0);
     (655129.8, 4183257.0, 8.6, 8.6, 0.0); (652679.8,
4183307.0, 5.9, 5.9, 0.0);
     (652729.8, 4183307.0, 6.8, 6.8, 0.0); (652779.8,
4183307.0, 6.8, 6.8, 0.0);
     (652829.8, 4183307.0, 6.8, 6.8, 0.0); (652879.8,
4183307.0, 6.8, 6.8, 0.0);
     (652929.8, 4183307.0, 6.7, 6.7, 0.0); (652979.8,
4183307.0, 6.7, 6.7, 0.0);
     (653029.8, 4183307.0, 6.7, 6.7, 0.0); (653079.8,

```
4183307.0,       6.7,       6.7,       0.0);
     ( 653129.8, 4183307.0,       6.7,       6.7,       0.0);         ( 653179.8,
4183307.0,       6.8,       6.8,       0.0);
     ( 653229.8, 4183307.0,       6.8,       6.8,       0.0);         ( 653279.8,
4183307.0,       6.8,       6.8,       0.0);
     ( 653329.8, 4183307.0,       6.8,       6.8,       0.0);         ( 653379.8,
4183307.0,       6.9,       6.9,       0.0);
     ( 653429.8, 4183307.0,       7.0,       7.0,       0.0);         ( 653479.8,
4183307.0,       7.3,       7.3,       0.0);
     ( 653529.8, 4183307.0,       7.8,       7.8,       0.0);         ( 653579.8,
4183307.0,       8.1,       8.1,       0.0);
     ( 653629.8, 4183307.0,       8.2,       8.2,       0.0);         ( 653679.8,
4183307.0,       8.3,       8.3,       0.0);
     ( 653729.8, 4183307.0,       8.4,       8.4,       0.0);         ( 653779.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 653829.8, 4183307.0,       8.4,       8.4,       0.0);         ( 653879.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 653929.8, 4183307.0,       8.4,       8.4,       0.0);         ( 653979.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654029.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654079.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654129.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654179.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654229.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654279.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654329.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654379.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654429.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654479.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 654529.8, 4183307.0,       8.3,       8.3,       0.0);         ( 654579.8,
4183307.0,       8.3,       8.3,       0.0);
     ( 654629.8, 4183307.0,       8.3,       8.3,       0.0);         ( 654679.8,
4183307.0,       8.3,       8.3,       0.0);
     ( 654729.8, 4183307.0,       8.3,       8.3,       0.0);         ( 654779.8,
4183307.0,       8.3,       8.3,       0.0);
     ( 654829.8, 4183307.0,       8.3,       8.3,       0.0);         ( 654879.8,
4183307.0,       8.3,       8.3,       0.0);
     ( 654929.8, 4183307.0,       8.4,       8.4,       0.0);         ( 654979.8,
4183307.0,       8.4,       8.4,       0.0);
     ( 655029.8, 4183307.0,       8.4,       8.4,       0.0);         ( 655079.8,
4183307.0,       8.5,       8.5,       0.0);
     ( 655129.8, 4183307.0,       8.5,       8.5,       0.0);         ( 652679.8,
4183357.0,       5.6,       5.6,       0.0);
     ( 652729.8, 4183357.0,       6.1,       6.1,       0.0);         ( 652779.8,
4183357.0,       6.5,       6.5,       0.0);
     ( 652829.8, 4183357.0,       6.7,       6.7,       0.0);         ( 652879.8,
4183357.0,       6.7,       6.7,       0.0);
     ( 652929.8, 4183357.0,       6.7,       6.7,       0.0);         ( 652979.8,
4183357.0,       6.7,       6.7,       0.0);
     ( 653029.8, 4183357.0,       6.7,       6.7,       0.0);         ( 653079.8,
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4183357.0, 6.7, 6.7, 0.0);
     (653129.8, 4183357.0, 6.7, 6.7, 0.0); (653179.8,
4183357.0, 6.7, 6.7, 0.0);
     (653229.8, 4183357.0, 6.7, 6.7, 0.0); (653279.8,
4183357.0, 6.8, 6.8, 0.0);
     (653329.8, 4183357.0, 6.8, 6.8, 0.0); (653379.8,
4183357.0, 6.8, 6.8, 0.0);
     (653429.8, 4183357.0, 6.9, 6.9, 0.0); (653479.8,
4183357.0, 7.1, 7.1, 0.0);
     (653529.8, 4183357.0, 7.7, 7.7, 0.0); (653579.8,
4183357.0, 8.2, 8.2, 0.0);
     (653629.8, 4183357.0, 8.3, 8.3, 0.0); (653679.8,
4183357.0, 8.4, 8.4, 0.0);
     (653729.8, 4183357.0, 8.4, 8.4, 0.0); (653779.8,
4183357.0, 8.5, 8.5, 0.0);
     (653829.8, 4183357.0, 8.4, 8.4, 0.0); (653879.8,
4183357.0, 8.3, 8.3, 0.0);
     (653929.8, 4183357.0, 8.3, 8.3, 0.0); (653979.8,
4183357.0, 8.4, 8.4, 0.0);
     (654029.8, 4183357.0, 8.4, 8.4, 0.0); (654079.8,
4183357.0, 8.4, 8.4, 0.0);

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                    (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (654129.8, 4183357.0, 8.4, 8.4, 0.0); (654179.8,
4183357.0, 8.4, 8.4, 0.0);
     (654229.8, 4183357.0, 8.4, 8.4, 0.0); (654279.8,
4183357.0, 8.4, 8.4, 0.0);
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     ( 654929.8, 4183407.0,       8.3,       8.3,       0.0);         ( 654979.8,
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     ( 653129.8, 4183457.0,       6.7,       6.7,       0.0);         ( 653179.8,
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     ( 653529.8, 4183457.0,       6.9,       6.9,       0.0);         ( 653579.8,
4183457.0,       7.2,       7.2,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

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     ( 654329.8, 4183457.0,       8.2,       8.2,       0.0);         ( 654379.8,
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     ( 654729.8, 4183457.0,       8.8,       8.8,       0.0);         ( 654779.8,
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     ( 654329.8, 4183507.0,       8.3,       8.3,       0.0);         ( 654379.8,
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4183557.0, 6.8, 6.8, 0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

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     (653329.8, 4183557.0, 6.8, 6.8, 0.0); (653379.8,
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     (653529.8, 4183557.0, 6.8, 6.8, 0.0); (653579.8,
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     (653629.8, 4183557.0, 6.8, 6.8, 0.0); (653679.8,
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     (653729.8, 4183557.0, 6.8, 6.8, 0.0); (653779.8,

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     ( 653729.8, 4183607.0,       7.1,       7.1,       0.0);         ( 653779.8,
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     (654729.8, 4183607.0,   9.8,   9.8,   0.0);   (654779.8,
4183607.0,   9.8,   9.8,   0.0);
     (654829.8, 4183607.0,   9.8,   9.8,   0.0);   (654879.8,
4183607.0,   9.8,   9.8,   0.0);
     (654929.8, 4183607.0,   9.8,   9.8,   0.0);   (654979.8,
4183607.0,   9.9,   9.9,   0.0);
     (655029.8, 4183607.0,   10.0,   10.0,   0.0);   (655079.8,
4183607.0,   10.2,   10.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (655129.8, 4183607.0,   10.3,   10.3,   0.0);   (652679.8,
4183657.0,   6.8,   6.8,   0.0);
     (652729.8, 4183657.0,   6.8,   6.8,   0.0);   (652779.8,
4183657.0,   6.8,   6.8,   0.0);
     (652829.8, 4183657.0,   6.9,   6.9,   0.0);   (652879.8,
4183657.0,   7.1,   7.1,   0.0);
     (652929.8, 4183657.0,   7.1,   7.1,   0.0);   (652979.8,
4183657.0,   7.1,   7.1,   0.0);
     (653029.8, 4183657.0,   7.1,   7.1,   0.0);   (653079.8,
4183657.0,   7.1,   7.1,   0.0);
     (653129.8, 4183657.0,   7.2,   7.2,   0.0);   (653179.8,

```
4183657.0,       7.2,       7.2,       0.0);
     ( 653229.8, 4183657.0,       7.3,       7.3,       0.0);         ( 653279.8,
4183657.0,       7.3,       7.3,       0.0);
     ( 653329.8, 4183657.0,       7.3,       7.3,       0.0);         ( 653379.8,
4183657.0,       7.3,       7.3,       0.0);
     ( 653429.8, 4183657.0,       7.0,       7.0,       0.0);         ( 653479.8,
4183657.0,       6.8,       6.8,       0.0);
     ( 653529.8, 4183657.0,       6.8,       6.8,       0.0);         ( 653579.8,
4183657.0,       6.8,       6.8,       0.0);
     ( 653629.8, 4183657.0,       7.0,       7.0,       0.0);         ( 653679.8,
4183657.0,       7.2,       7.2,       0.0);
     ( 653729.8, 4183657.0,       7.4,       7.4,       0.0);         ( 653779.8,
4183657.0,       7.5,       7.5,       0.0);
     ( 653829.8, 4183657.0,       7.6,       7.6,       0.0);         ( 653879.8,
4183657.0,       7.6,       7.6,       0.0);
     ( 653929.8, 4183657.0,       7.8,       7.8,       0.0);         ( 653979.8,
4183657.0,       8.0,       8.0,       0.0);
     ( 654029.8, 4183657.0,       8.2,       8.2,       0.0);         ( 654079.8,
4183657.0,       8.3,       8.3,       0.0);
     ( 654129.8, 4183657.0,       8.5,       8.5,       0.0);         ( 654179.8,
4183657.0,       9.7,       9.7,       0.0);
     ( 654229.8, 4183657.0,       9.9,       9.9,       0.0);         ( 654279.8,
4183657.0,       9.9,       9.9,       0.0);
     ( 654329.8, 4183657.0,       9.9,       9.9,       0.0);         ( 654379.8,
4183657.0,       9.7,       9.7,       0.0);
     ( 654429.8, 4183657.0,       9.7,       9.7,       0.0);         ( 654479.8,
4183657.0,       9.7,       9.7,       0.0);
     ( 654529.8, 4183657.0,       9.7,       9.7,       0.0);         ( 654579.8,
4183657.0,       9.7,       9.7,       0.0);
     ( 654629.8, 4183657.0,       9.8,       9.8,       0.0);         ( 654679.8,
4183657.0,       9.8,       9.8,       0.0);
     ( 654729.8, 4183657.0,       9.9,       9.9,       0.0);         ( 654779.8,
4183657.0,       9.9,       9.9,       0.0);
     ( 654829.8, 4183657.0,       9.9,       9.9,       0.0);         ( 654879.8,
4183657.0,       9.9,       9.9,       0.0);
     ( 654929.8, 4183657.0,      10.0,      10.0,       0.0);         ( 654979.8,
4183657.0,      10.1,      10.1,       0.0);
     ( 655029.8, 4183657.0,      10.3,      10.3,       0.0);         ( 655079.8,
4183657.0,      10.5,      10.5,       0.0);
     ( 655129.8, 4183657.0,      10.6,      10.6,       0.0);         ( 652679.8,
4183707.0,       6.8,       6.8,       0.0);
     ( 652729.8, 4183707.0,       6.8,       6.8,       0.0);         ( 652779.8,
4183707.0,       6.9,       6.9,       0.0);
     ( 652829.8, 4183707.0,       7.1,       7.1,       0.0);         ( 652879.8,
4183707.0,       7.2,       7.2,       0.0);
     ( 652929.8, 4183707.0,       7.3,       7.3,       0.0);         ( 652979.8,
4183707.0,       7.3,       7.3,       0.0);
     ( 653029.8, 4183707.0,       7.3,       7.3,       0.0);         ( 653079.8,
4183707.0,       7.3,       7.3,       0.0);
     ( 653129.8, 4183707.0,       7.4,       7.4,       0.0);         ( 653179.8,
```

4183707.0,   7.5,   7.5,   0.0);
     (653229.8, 4183707.0,   7.6,   7.6,   0.0);   (653279.8,
4183707.0,   7.6,   7.6,   0.0);
     (653329.8, 4183707.0,   7.6,   7.6,   0.0);   (653379.8,
4183707.0,   7.5,   7.5,   0.0);
     (653429.8, 4183707.0,   7.0,   7.0,   0.0);   (653479.8,
4183707.0,   6.8,   6.8,   0.0);
     (653529.8, 4183707.0,   6.8,   6.8,   0.0);   (653579.8,
4183707.0,   6.8,   6.8,   0.0);
     (653629.8, 4183707.0,   7.0,   7.0,   0.0);   (653679.8,
4183707.0,   7.3,   7.3,   0.0);
     (653729.8, 4183707.0,   7.6,   7.6,   0.0);   (653779.8,
4183707.0,   7.8,   7.8,   0.0);
     (653829.8, 4183707.0,   7.8,   7.8,   0.0);   (653879.8,
4183707.0,   7.8,   7.8,   0.0);
     (653929.8, 4183707.0,   8.0,   8.0,   0.0);   (653979.8,
4183707.0,   8.1,   8.1,   0.0);
     (654029.8, 4183707.0,   8.3,   8.3,   0.0);   (654079.8,
4183707.0,   8.5,   8.5,   0.0);
     (654129.8, 4183707.0,   9.0,   9.0,   0.0);   (654179.8,
4183707.0,   9.6,   9.6,   0.0);
     (654229.8, 4183707.0,   9.7,   9.7,   0.0);   (654279.8,
4183707.0,   9.7,   9.7,   0.0);
     (654329.8, 4183707.0,   9.6,   9.6,   0.0);   (654379.8,
4183707.0,   9.4,   9.4,   0.0);
     (654429.8, 4183707.0,   9.4,   9.4,   0.0);   (654479.8,
4183707.0,   9.4,   9.4,   0.0);
     (654529.8, 4183707.0,   9.4,   9.4,   0.0);   (654579.8,
4183707.0,   9.4,   9.4,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (654629.8, 4183707.0,   9.5,   9.5,   0.0);   (654679.8,
4183707.0,   9.5,   9.5,   0.0);
     (654729.8, 4183707.0,   9.6,   9.6,   0.0);   (654779.8,
4183707.0,   9.6,   9.6,   0.0);
     (654829.8, 4183707.0,   9.7,   9.7,   0.0);   (654879.8,
4183707.0,   9.7,   9.7,   0.0);
     (654929.8, 4183707.0,   9.8,   9.8,   0.0);   (654979.8,
4183707.0,   10.0,   10.0,   0.0);
     (655029.8, 4183707.0,   10.4,   10.4,   0.0);   (655079.8,

```
4183707.0,      10.7,      10.7,       0.0);
     ( 655129.8, 4183707.0,      10.9,      10.9,       0.0);         ( 652679.8,
4183757.0,       6.8,       6.8,       0.0);
     ( 652729.8, 4183757.0,       7.0,       7.0,       0.0);         ( 652779.8,
4183757.0,       7.1,       7.1,       0.0);
     ( 652829.8, 4183757.0,       7.2,       7.2,       0.0);         ( 652879.8,
4183757.0,       7.4,       7.4,       0.0);
     ( 652929.8, 4183757.0,       7.5,       7.5,       0.0);         ( 652979.8,
4183757.0,       7.5,       7.5,       0.0);
     ( 653029.8, 4183757.0,       7.5,       7.5,       0.0);         ( 653079.8,
4183757.0,       7.6,       7.6,       0.0);
     ( 653129.8, 4183757.0,       7.7,       7.7,       0.0);         ( 653179.8,
4183757.0,       7.8,       7.8,       0.0);
     ( 653229.8, 4183757.0,       7.9,       7.9,       0.0);         ( 653279.8,
4183757.0,       7.9,       7.9,       0.0);
     ( 653329.8, 4183757.0,       7.9,       7.9,       0.0);         ( 653379.8,
4183757.0,       7.8,       7.8,       0.0);
     ( 653429.8, 4183757.0,       7.3,       7.3,       0.0);         ( 653479.8,
4183757.0,       6.9,       6.9,       0.0);
     ( 653529.8, 4183757.0,       6.8,       6.8,       0.0);         ( 653579.8,
4183757.0,       6.8,       6.8,       0.0);
     ( 653629.8, 4183757.0,       7.1,       7.1,       0.0);         ( 653679.8,
4183757.0,       7.6,       7.6,       0.0);
     ( 653729.8, 4183757.0,       7.9,       7.9,       0.0);         ( 653779.8,
4183757.0,       8.1,       8.1,       0.0);
     ( 653829.8, 4183757.0,       8.2,       8.2,       0.0);         ( 653879.8,
4183757.0,       8.2,       8.2,       0.0);
     ( 653929.8, 4183757.0,       8.2,       8.2,       0.0);         ( 653979.8,
4183757.0,       8.3,       8.3,       0.0);
     ( 654029.8, 4183757.0,       8.5,       8.5,       0.0);         ( 654079.8,
4183757.0,       8.7,       8.7,       0.0);
     ( 654129.8, 4183757.0,       8.9,       8.9,       0.0);         ( 654179.8,
4183757.0,       9.1,       9.1,       0.0);
     ( 654229.8, 4183757.0,       9.3,       9.3,       0.0);         ( 654279.8,
4183757.0,       9.2,       9.2,       0.0);
     ( 654329.8, 4183757.0,       9.2,       9.2,       0.0);         ( 654379.8,
4183757.0,       9.1,       9.1,       0.0);
     ( 654429.8, 4183757.0,       9.1,       9.1,       0.0);         ( 654479.8,
4183757.0,       9.1,       9.1,       0.0);
     ( 654529.8, 4183757.0,       9.1,       9.1,       0.0);         ( 654579.8,
4183757.0,       9.1,       9.1,       0.0);
     ( 654629.8, 4183757.0,       9.2,       9.2,       0.0);         ( 654679.8,
4183757.0,       9.3,       9.3,       0.0);
     ( 654729.8, 4183757.0,       9.5,       9.5,       0.0);         ( 654779.8,
4183757.0,       9.6,       9.6,       0.0);
     ( 654829.8, 4183757.0,       9.7,       9.7,       0.0);         ( 654879.8,
4183757.0,       9.7,       9.7,       0.0);
     ( 654929.8, 4183757.0,       9.8,       9.8,       0.0);         ( 654979.8,
4183757.0,      10.1,      10.1,       0.0);
     ( 655029.8, 4183757.0,      10.4,      10.4,       0.0);         ( 655079.8,
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4183757.0,   10.8,   10.8,   0.0);
     (655129.8, 4183757.0,   11.1,   11.1,   0.0);   (652679.8,
4183807.0,   7.0,   7.0,   0.0);
     (652729.8, 4183807.0,   7.1,   7.1,   0.0);   (652779.8,
4183807.0,   7.3,   7.3,   0.0);
     (652829.8, 4183807.0,   7.4,   7.4,   0.0);   (652879.8,
4183807.0,   7.6,   7.6,   0.0);
     (652929.8, 4183807.0,   7.6,   7.6,   0.0);   (652979.8,
4183807.0,   7.7,   7.7,   0.0);
     (653029.8, 4183807.0,   7.7,   7.7,   0.0);   (653079.8,
4183807.0,   7.8,   7.8,   0.0);
     (653129.8, 4183807.0,   7.9,   7.9,   0.0);   (653179.8,
4183807.0,   8.0,   8.0,   0.0);
     (653229.8, 4183807.0,   8.2,   8.2,   0.0);   (653279.8,
4183807.0,   8.3,   8.3,   0.0);
     (653329.8, 4183807.0,   8.3,   8.3,   0.0);   (653379.8,
4183807.0,   8.2,   8.2,   0.0);
     (653429.8, 4183807.0,   8.0,   8.0,   0.0);   (653479.8,
4183807.0,   7.6,   7.6,   0.0);
     (653529.8, 4183807.0,   7.3,   7.3,   0.0);   (653579.8,
4183807.0,   7.4,   7.4,   0.0);
     (653629.8, 4183807.0,   7.7,   7.7,   0.0);   (653679.8,
4183807.0,   8.0,   8.0,   0.0);
     (653729.8, 4183807.0,   8.2,   8.2,   0.0);   (653779.8,
4183807.0,   8.4,   8.4,   0.0);
     (653829.8, 4183807.0,   8.5,   8.5,   0.0);   (653879.8,
4183807.0,   8.6,   8.6,   0.0);
     (653929.8, 4183807.0,   8.6,   8.6,   0.0);   (653979.8,
4183807.0,   8.7,   8.7,   0.0);
     (654029.8, 4183807.0,   8.7,   8.7,   0.0);   (654079.8,
4183807.0,   8.8,   8.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (654129.8, 4183807.0,   8.9,   8.9,   0.0);   (654179.8,
4183807.0,   8.9,   8.9,   0.0);
     (654229.8, 4183807.0,   8.9,   8.9,   0.0);   (654279.8,
4183807.0,   8.8,   8.8,   0.0);
     (654329.8, 4183807.0,   8.8,   8.8,   0.0);   (654379.8,
4183807.0,   8.9,   8.9,   0.0);
     (654429.8, 4183807.0,   8.9,   8.9,   0.0);   (654479.8,

```
4183807.0,       8.9,       8.9,       0.0);
     ( 654529.8, 4183807.0,       8.8,       8.8,       0.0);         ( 654579.8,
4183807.0,       8.9,       8.9,       0.0);
     ( 654629.8, 4183807.0,       9.0,       9.0,       0.0);         ( 654679.8,
4183807.0,       9.2,       9.2,       0.0);
     ( 654729.8, 4183807.0,       9.4,       9.4,       0.0);         ( 654779.8,
4183807.0,       9.6,       9.6,       0.0);
     ( 654829.8, 4183807.0,       9.7,       9.7,       0.0);         ( 654879.8,
4183807.0,       9.8,       9.8,       0.0);
     ( 654929.8, 4183807.0,      10.0,      10.0,       0.0);         ( 654979.8,
4183807.0,      10.2,      10.2,       0.0);
     ( 655029.8, 4183807.0,      10.5,      10.5,       0.0);         ( 655079.8,
4183807.0,      10.9,      10.9,       0.0);
     ( 655129.8, 4183807.0,      11.2,      11.2,       0.0);         ( 652679.8,
4183857.0,       7.1,       7.1,       0.0);
     ( 652729.8, 4183857.0,       7.3,       7.3,       0.0);         ( 652779.8,
4183857.0,       7.5,       7.5,       0.0);
     ( 652829.8, 4183857.0,       7.7,       7.7,       0.0);         ( 652879.8,
4183857.0,       7.8,       7.8,       0.0);
     ( 652929.8, 4183857.0,       7.9,       7.9,       0.0);         ( 652979.8,
4183857.0,       7.9,       7.9,       0.0);
     ( 653029.8, 4183857.0,       7.9,       7.9,       0.0);         ( 653079.8,
4183857.0,       8.0,       8.0,       0.0);
     ( 653129.8, 4183857.0,       8.1,       8.1,       0.0);         ( 653179.8,
4183857.0,       8.2,       8.2,       0.0);
     ( 653229.8, 4183857.0,       8.6,       8.6,       0.0);         ( 653279.8,
4183857.0,       8.5,       8.5,       0.0);
     ( 653329.8, 4183857.0,       8.6,       8.6,       0.0);         ( 653379.8,
4183857.0,       8.6,       8.6,       0.0);
     ( 653429.8, 4183857.0,       8.5,       8.5,       0.0);         ( 653479.8,
4183857.0,       8.4,       8.4,       0.0);
     ( 653529.8, 4183857.0,       8.3,       8.3,       0.0);         ( 653579.8,
4183857.0,       8.2,       8.2,       0.0);
     ( 653629.8, 4183857.0,       8.3,       8.3,       0.0);         ( 653679.8,
4183857.0,       8.4,       8.4,       0.0);
     ( 653729.8, 4183857.0,       8.6,       8.6,       0.0);         ( 653779.8,
4183857.0,       8.8,       8.8,       0.0);
     ( 653829.8, 4183857.0,       9.0,       9.0,       0.0);         ( 653879.8,
4183857.0,       9.1,       9.1,       0.0);
     ( 653929.8, 4183857.0,       9.1,       9.1,       0.0);         ( 653979.8,
4183857.0,       9.1,       9.1,       0.0);
     ( 654029.8, 4183857.0,       9.1,       9.1,       0.0);         ( 654079.8,
4183857.0,       9.1,       9.1,       0.0);
     ( 654129.8, 4183857.0,       9.0,       9.0,       0.0);         ( 654179.8,
4183857.0,       8.8,       8.8,       0.0);
     ( 654229.8, 4183857.0,       8.6,       8.6,       0.0);         ( 654279.8,
4183857.0,       8.5,       8.5,       0.0);
     ( 654329.8, 4183857.0,       8.6,       8.6,       0.0);         ( 654379.8,
4183857.0,       8.6,       8.6,       0.0);
     ( 654429.8, 4183857.0,       8.6,       8.6,       0.0);         ( 654479.8,
```

4183857.0,   8.5,   8.5,   0.0);
     (654529.8, 4183857.0,   8.6,   8.6,   0.0);   (654579.8,
4183857.0,   8.7,   8.7,   0.0);
     (654629.8, 4183857.0,   8.9,   8.9,   0.0);   (654679.8,
4183857.0,   9.2,   9.2,   0.0);
     (654729.8, 4183857.0,   9.4,   9.4,   0.0);   (654779.8,
4183857.0,   9.6,   9.6,   0.0);
     (654829.8, 4183857.0,   9.8,   9.8,   0.0);   (654879.8,
4183857.0,   10.0,   10.0,   0.0);
     (654929.8, 4183857.0,   10.2,   10.2,   0.0);   (654979.8,
4183857.0,   10.3,   10.3,   0.0);
     (655029.8, 4183857.0,   10.6,   10.6,   0.0);   (655079.8,
4183857.0,   10.9,   10.9,   0.0);
     (655129.8, 4183857.0,   11.2,   11.2,   0.0);   (652679.8,
4183907.0,   7.3,   7.3,   0.0);
     (652729.8, 4183907.0,   7.5,   7.5,   0.0);   (652779.8,
4183907.0,   7.8,   7.8,   0.0);
     (652829.8, 4183907.0,   7.9,   7.9,   0.0);   (652879.8,
4183907.0,   8.0,   8.0,   0.0);
     (652929.8, 4183907.0,   8.1,   8.1,   0.0);   (652979.8,
4183907.0,   8.1,   8.1,   0.0);
     (653029.8, 4183907.0,   8.2,   8.2,   0.0);   (653079.8,
4183907.0,   8.2,   8.2,   0.0);
     (653129.8, 4183907.0,   8.6,   8.6,   0.0);   (653179.8,
4183907.0,   9.4,   9.4,   0.0);
     (653229.8, 4183907.0,   9.6,   9.6,   0.0);   (653279.8,
4183907.0,   9.1,   9.1,   0.0);
     (653329.8, 4183907.0,   8.9,   8.9,   0.0);   (653379.8,
4183907.0,   8.8,   8.8,   0.0);
     (653429.8, 4183907.0,   8.7,   8.7,   0.0);   (653479.8,
4183907.0,   8.6,   8.6,   0.0);
     (653529.8, 4183907.0,   8.6,   8.6,   0.0);   (653579.8,
4183907.0,   8.7,   8.7,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (653629.8, 4183907.0,   8.8,   8.8,   0.0);   (653679.8,
4183907.0,   8.9,   8.9,   0.0);
     (653729.8, 4183907.0,   9.1,   9.1,   0.0);   (653779.8,
4183907.0,   9.3,   9.3,   0.0);
     (653829.8, 4183907.0,   9.4,   9.4,   0.0);   (653879.8,

```
4183907.0,       9.4,       9.4,       0.0);
     ( 653929.8, 4183907.0,       9.5,       9.5,       0.0);         ( 653979.8,
4183907.0,       9.6,       9.6,       0.0);
     ( 654029.8, 4183907.0,       9.5,       9.5,       0.0);         ( 654079.8,
4183907.0,       9.4,       9.4,       0.0);
     ( 654129.8, 4183907.0,       9.2,       9.2,       0.0);         ( 654179.8,
4183907.0,       8.8,       8.8,       0.0);
     ( 654229.8, 4183907.0,       8.4,       8.4,       0.0);         ( 654279.8,
4183907.0,       8.3,       8.3,       0.0);
     ( 654329.8, 4183907.0,       8.3,       8.3,       0.0);         ( 654379.8,
4183907.0,       8.4,       8.4,       0.0);
     ( 654429.8, 4183907.0,       8.4,       8.4,       0.0);         ( 654479.8,
4183907.0,       8.4,       8.4,       0.0);
     ( 654529.8, 4183907.0,       8.5,       8.5,       0.0);         ( 654579.8,
4183907.0,       8.8,       8.8,       0.0);
     ( 654629.8, 4183907.0,       9.0,       9.0,       0.0);         ( 654679.8,
4183907.0,       9.3,       9.3,       0.0);
     ( 654729.8, 4183907.0,       9.5,       9.5,       0.0);         ( 654779.8,
4183907.0,       9.7,       9.7,       0.0);
     ( 654829.8, 4183907.0,       9.9,       9.9,       0.0);         ( 654879.8,
4183907.0,      10.1,      10.1,       0.0);
     ( 654929.8, 4183907.0,      10.1,      10.1,       0.0);         ( 654979.8,
4183907.0,      10.1,      10.1,       0.0);
     ( 655029.8, 4183907.0,      10.2,      10.2,       0.0);         ( 655079.8,
4183907.0,      10.6,      10.6,       0.0);
     ( 655129.8, 4183907.0,      11.2,      11.2,       0.0);         ( 652679.8,
4183957.0,       7.4,       7.4,       0.0);
     ( 652729.8, 4183957.0,       7.7,       7.7,       0.0);         ( 652779.8,
4183957.0,       8.0,       8.0,       0.0);
     ( 652829.8, 4183957.0,       8.2,       8.2,       0.0);         ( 652879.8,
4183957.0,       8.2,       8.2,       0.0);
     ( 652929.8, 4183957.0,       8.3,       8.3,       0.0);         ( 652979.8,
4183957.0,       8.4,       8.4,       0.0);
     ( 653029.8, 4183957.0,       8.4,       8.4,       0.0);         ( 653079.8,
4183957.0,       8.9,       8.9,       0.0);
     ( 653129.8, 4183957.0,       9.8,       9.8,       0.0);         ( 653179.8,
4183957.0,       9.9,       9.9,       0.0);
     ( 653229.8, 4183957.0,       9.5,       9.5,       0.0);         ( 653279.8,
4183957.0,       9.0,       9.0,       0.0);
     ( 653329.8, 4183957.0,       9.0,       9.0,       0.0);         ( 653379.8,
4183957.0,       8.8,       8.8,       0.0);
     ( 653429.8, 4183957.0,       8.6,       8.6,       0.0);         ( 653479.8,
4183957.0,       8.5,       8.5,       0.0);
     ( 653529.8, 4183957.0,       8.6,       8.6,       0.0);         ( 653579.8,
4183957.0,       8.7,       8.7,       0.0);
     ( 653629.8, 4183957.0,       8.9,       8.9,       0.0);         ( 653679.8,
4183957.0,       9.3,       9.3,       0.0);
     ( 653729.8, 4183957.0,       9.6,       9.6,       0.0);         ( 653779.8,
4183957.0,       9.8,       9.8,       0.0);
     ( 653829.8, 4183957.0,       9.7,       9.7,       0.0);         ( 653879.8,
```

4183957.0,   9.8,   9.8,   0.0);
     (653929.8, 4183957.0,   9.8,   9.8,   0.0);   (653979.8,
4183957.0,   9.9,   9.9,   0.0);
     (654029.8, 4183957.0,   9.8,   9.8,   0.0);   (654079.8,
4183957.0,   9.8,   9.8,   0.0);
     (654129.8, 4183957.0,   9.5,   9.5,   0.0);   (654179.8,
4183957.0,   9.1,   9.1,   0.0);
     (654229.8, 4183957.0,   8.8,   8.8,   0.0);   (654279.8,
4183957.0,   8.7,   8.7,   0.0);
     (654329.8, 4183957.0,   8.6,   8.6,   0.0);   (654379.8,
4183957.0,   8.6,   8.6,   0.0);
     (654429.8, 4183957.0,   8.6,   8.6,   0.0);   (654479.8,
4183957.0,   8.8,   8.8,   0.0);
     (654529.8, 4183957.0,   8.9,   8.9,   0.0);   (654579.8,
4183957.0,   9.1,   9.1,   0.0);
     (654629.8, 4183957.0,   9.3,   9.3,   0.0);   (654679.8,
4183957.0,   9.5,   9.5,   0.0);
     (654729.8, 4183957.0,   9.8,   9.8,   0.0);   (654779.8,
4183957.0,   9.9,   9.9,   0.0);
     (654829.8, 4183957.0,   10.0,   10.0,   0.0);   (654879.8,
4183957.0,   10.0,   10.0,   0.0);
     (654929.8, 4183957.0,   9.9,   9.9,   0.0);   (654979.8,
4183957.0,   9.9,   9.9,   0.0);
     (655029.8, 4183957.0,   9.9,   9.9,   0.0);   (655079.8,
4183957.0,   10.0,   10.0,   0.0);
     (655129.8, 4183957.0,   10.7,   10.7,   0.0);   (652679.8,
4184007.0,   7.4,   7.4,   0.0);
     (652729.8, 4184007.0,   7.8,   7.8,   0.0);   (652779.8,
4184007.0,   8.2,   8.2,   0.0);
     (652829.8, 4184007.0,   8.3,   8.3,   0.0);   (652879.8,
4184007.0,   8.4,   8.4,   0.0);
     (652929.8, 4184007.0,   8.4,   8.4,   0.0);   (652979.8,
4184007.0,   8.4,   8.4,   0.0);
     (653029.8, 4184007.0,   8.5,   8.5,   0.0);   (653079.8,
4184007.0,   8.7,   8.7,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (653129.8, 4184007.0,   8.7,   8.7,   0.0);   (653179.8,
4184007.0,   8.2,   8.2,   0.0);
     (653229.8, 4184007.0,   7.8,   7.8,   0.0);   (653279.8,

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4184007.0,       7.9,       7.9,       0.0);
     ( 653329.8, 4184007.0,       8.2,       8.2,       0.0);         ( 653379.8,
4184007.0,       8.4,       8.4,       0.0);
     ( 653429.8, 4184007.0,       8.3,       8.3,       0.0);         ( 653479.8,
4184007.0,       8.3,       8.3,       0.0);
     ( 653529.8, 4184007.0,       8.4,       8.4,       0.0);         ( 653579.8,
4184007.0,       8.5,       8.5,       0.0);
     ( 653629.8, 4184007.0,       8.6,       8.6,       0.0);         ( 653679.8,
4184007.0,       9.0,       9.0,       0.0);
     ( 653729.8, 4184007.0,       9.5,       9.5,       0.0);         ( 653779.8,
4184007.0,       9.9,       9.9,       0.0);
     ( 653829.8, 4184007.0,      10.0,      10.0,       0.0);         ( 653879.8,
4184007.0,      10.0,      10.0,       0.0);
     ( 653929.8, 4184007.0,      10.0,      10.0,       0.0);         ( 653979.8,
4184007.0,      10.1,      10.1,       0.0);
     ( 654029.8, 4184007.0,      10.0,      10.0,       0.0);         ( 654079.8,
4184007.0,      10.0,      10.0,       0.0);
     ( 654129.8, 4184007.0,       9.8,       9.8,       0.0);         ( 654179.8,
4184007.0,       9.5,       9.5,       0.0);
     ( 654229.8, 4184007.0,       9.4,       9.4,       0.0);         ( 654279.8,
4184007.0,       9.2,       9.2,       0.0);
     ( 654329.8, 4184007.0,       9.1,       9.1,       0.0);         ( 654379.8,
4184007.0,       9.1,       9.1,       0.0);
     ( 654429.8, 4184007.0,       9.2,       9.2,       0.0);         ( 654479.8,
4184007.0,       9.3,       9.3,       0.0);
     ( 654529.8, 4184007.0,       9.4,       9.4,       0.0);         ( 654579.8,
4184007.0,       9.6,       9.6,       0.0);
     ( 654629.8, 4184007.0,       9.7,       9.7,       0.0);         ( 654679.8,
4184007.0,       9.8,       9.8,       0.0);
     ( 654729.8, 4184007.0,       9.9,       9.9,       0.0);         ( 654779.8,
4184007.0,       9.9,       9.9,       0.0);
     ( 654829.8, 4184007.0,       9.9,       9.9,       0.0);         ( 654879.8,
4184007.0,       9.9,       9.9,       0.0);
     ( 654929.8, 4184007.0,       9.8,       9.8,       0.0);         ( 654979.8,
4184007.0,       9.8,       9.8,       0.0);
     ( 655029.8, 4184007.0,       9.8,       9.8,       0.0);         ( 655079.8,
4184007.0,       9.8,       9.8,       0.0);
     ( 655129.8, 4184007.0,       9.9,       9.9,       0.0);

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***       11:24:15

                                PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)
```

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\2017_Stockton.SFC
Met Version: 18081
Profile file: AERMET\2017_Stockton.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23237 Upper air station no.: 23230
Name: STOCKTON,_CA Name: OAKLAND/WSO_AP

Year: 2017 Year: 2017

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
17	01	01	1	01	-21.5	0.209	-9.000	-9.000	-999.	230.	48.2	0.02	0.81	1.00	3.36	111.	10.0	275.9	2.0
17	01	01	1	02	-20.7	0.201	-9.000	-9.000	-999.	216.	44.3	0.05	0.81	1.00	2.86	158.	10.0	274.9	2.0
17	01	01	1	03	-31.3	0.306	-9.000	-9.000	-999.	406.	103.0	0.05	0.81	1.00	4.28	154.	10.0	277.0	2.0
17	01	01	1	04	-36.5	0.356	-9.000	-9.000	-999.	511.	139.7	0.06	0.81	1.00	4.76	142.	10.0	277.0	2.0
17	01	01	1	05	-39.1	0.382	-9.000	-9.000	-999.	567.	160.7	0.06	0.81	1.00	5.09	137.	10.0	277.0	2.0
17	01	01	1	06	-38.5	0.374	-9.000	-9.000	-999.	550.	154.2	0.06	0.81	1.00	4.99	136.	10.0	275.9	2.0
17	01	01	1	07	-33.0	0.321	-9.000	-9.000	-999.	439.	113.6	0.06	0.81	1.00	4.31	146.	10.0	275.9	2.0
17	01	01	1	08	-16.7	0.174	-9.000	-9.000	-999.	189.	33.2	0.06	0.81	0.73	2.40	138.	10.0	275.9	2.0
17	01	01	1	09	-15.0	0.341	-9.000	-9.000	-999.	479.	239.5	0.06	0.81	0.39	4.49	129.	10.0	277.5	2.0
17	01	01	1	10	45.9	0.512	1.006	0.018	803.	879.	-264.5	0.06	0.81	0.27	6.41	148.	10.0	280.4	2.0
17	01	01	1	11	72.4	0.480	1.271	0.020	1025.	800.	-138.1	0.06	0.81	0.23	5.90	143.	10.0	282.5	2.0
17	01	01	1	12	92.0	0.348	1.403	0.019	1086.	506.	-41.4	0.05	0.81	0.22	4.20	164.	10.0	283.1	2.0
17	01	01	1	13	94.2	0.263	1.417	0.019	1090.	328.	-17.4	0.05	0.81	0.21	2.96	173.	10.0	284.2	2.0
17	01	01	1	14	81.9	0.276	1.354	0.018	1094.	348.	-23.2	0.05	0.81	0.22	3.19	178.	10.0	284.2	2.0
17	01	01	1	15	56.9	0.380	1.200	0.018	1097.	561.	-86.6	0.04	0.81	0.26	4.92	207.	10.0	285.4	2.0
17	01	01	1	16	13.3	0.373	0.740	0.018	1097.	548.	-352.6	0.04	0.81	0.35	5.04	214.	10.0	284.2	2.0
17	01	01	1	17	-23.7	0.255	-9.000	-9.000	-999.	317.	71.4	0.04	0.81	0.60	3.69	195.	10.0	283.1	2.0
17	01	01	1	18	-21.4	0.212	-9.000	-9.000	-999.	235.	49.5	0.04	0.81	1.00	3.10	230.	10.0	280.9	2.0
17	01	01	1	19	-26.8	0.266	-9.000	-9.000	-999.	329.	77.8	0.04	0.81	1.00	3.85	221.	10.0	280.9	2.0
17	01	01	1	20	-25.5	0.252	-9.000	-9.000	-999.	304.	70.0	0.04	0.81	1.00	3.66	211.	10.0	279.9	2.0
17	01	01	1	21	-24.3	0.239	-9.000	-9.000	-999.	280.	62.6	0.04	0.81	1.00	3.47	228.	10.0	278.1	2.0
17	01	01	1	22	-22.6	0.222	-9.000	-9.000	-999.	251.	54.2	0.04	0.81						

```
1.00    3.24  200.   10.0  279.2    2.0
 17 01 01   1 23  -21.7  0.214 -9.000 -9.000 -999.  238.     50.5  0.04   0.81
1.00    3.13  211.   10.0  280.4    2.0
 17 01 01   1 24  -18.5  0.181 -9.000 -9.000 -999.  185.     36.0  0.04   0.81
1.00    2.67  190.   10.0  278.1    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 17 01 01 01   10.0 1  111.    3.36   276.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         652679.81    4181556.98       0.00010                      652729.81
4181556.98        0.00010
         652779.81    4181556.98       0.00011                      652829.81
4181556.98        0.00011
         652879.81    4181556.98       0.00012                      652929.81
4181556.98        0.00012
         652979.81    4181556.98       0.00012                      653029.81
4181556.98        0.00013
         653079.81    4181556.98       0.00013                      653129.81
4181556.98        0.00014
         653179.81    4181556.98       0.00014                      653229.81
4181556.98        0.00014
         653279.81    4181556.98       0.00015                      653329.81
4181556.98        0.00015
         653379.81    4181556.98       0.00015                      653429.81
4181556.98        0.00015
```

653479.81	4181556.98	0.00015	653529.81	4181556.98	0.00015
653579.81	4181556.98	0.00015	653629.81	4181556.98	0.00015
653679.81	4181556.98	0.00014	653729.81	4181556.98	0.00014
653779.81	4181556.98	0.00014	653829.81	4181556.98	0.00014
653879.81	4181556.98	0.00014	653929.81	4181556.98	0.00014
653979.81	4181556.98	0.00015	654029.81	4181556.98	0.00016
654079.81	4181556.98	0.00017	654129.81	4181556.98	0.00019
654179.81	4181556.98	0.00021	654229.81	4181556.98	0.00023
654279.81	4181556.98	0.00025	654329.81	4181556.98	0.00027
654379.81	4181556.98	0.00029	654429.81	4181556.98	0.00031
654479.81	4181556.98	0.00033	654529.81	4181556.98	0.00034
654579.81	4181556.98	0.00036	654629.81	4181556.98	0.00037
654679.81	4181556.98	0.00038	654729.81	4181556.98	0.00039
654779.81	4181556.98	0.00040	654829.81	4181556.98	0.00040
654879.81	4181556.98	0.00041	654929.81	4181556.98	0.00041
654979.81	4181556.98	0.00041	655029.81	4181556.98	0.00041
655079.81	4181556.98	0.00041	655129.81	4181556.98	0.00041
652679.81	4181606.98	0.00010	652729.81	4181606.98	0.00010
652779.81	4181606.98	0.00011	652829.81	4181606.98	0.00011
652879.81	4181606.98	0.00012	652929.81	4181606.98	0.00012
652979.81	4181606.98	0.00013	653029.81	4181606.98	0.00013
653079.81	4181606.98	0.00014	653129.81	4181606.98	0.00014
653179.81	4181606.98	0.00015	653229.81	4181606.98	0.00015
653279.81	4181606.98	0.00015	653329.81	4181606.98	0.00016
653379.81	4181606.98	0.00016	653429.81	4181606.98	0.00016

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         653479.81    4181606.98        0.00016                       653529.81
4181606.98        0.00016
         653579.81    4181606.98        0.00016                       653629.81
4181606.98        0.00016
         653679.81    4181606.98        0.00015                       653729.81
4181606.98        0.00015
         653779.81    4181606.98        0.00015                       653829.81
4181606.98        0.00015
         653879.81    4181606.98        0.00015                       653929.81
4181606.98        0.00015
         653979.81    4181606.98        0.00016                       654029.81
4181606.98        0.00018
         654079.81    4181606.98        0.00019                       654129.81
4181606.98        0.00021
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         654179.81    4181606.98        0.00023                       654229.81
4181606.98        0.00026
         654279.81    4181606.98        0.00028                       654329.81
4181606.98        0.00030
         654379.81    4181606.98        0.00032                       654429.81
4181606.98        0.00034
         654479.81    4181606.98        0.00036                       654529.81
4181606.98        0.00038
         654579.81    4181606.98        0.00039                       654629.81
4181606.98        0.00040
         654679.81    4181606.98        0.00041                       654729.81
4181606.98        0.00042
         654779.81    4181606.98        0.00043                       654829.81
4181606.98        0.00043
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654879.81 4181606.98 0.00044 654929.81
4181606.98 0.00044
654979.81 4181606.98 0.00044 655029.81
4181606.98 0.00044
655079.81 4181606.98 0.00043 655129.81
4181606.98 0.00043
652679.81 4181656.98 0.00010 652729.81
4181656.98 0.00011
652779.81 4181656.98 0.00011 652829.81
4181656.98 0.00012
652879.81 4181656.98 0.00012 652929.81
4181656.98 0.00013
652979.81 4181656.98 0.00013 653029.81
4181656.98 0.00014
653079.81 4181656.98 0.00014 653129.81
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4181656.98 0.00016
653279.81 4181656.98 0.00016 653329.81
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653579.81 4181656.98 0.00017 653629.81
4181656.98 0.00017
653679.81 4181656.98 0.00016 653729.81
4181656.98 0.00016
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654079.81 4181656.98 0.00021 654129.81
4181656.98 0.00023
654179.81 4181656.98 0.00026 654229.81
4181656.98 0.00028
654279.81 4181656.98 0.00031 654329.81
4181656.98 0.00033
654379.81 4181656.98 0.00036 654429.81
4181656.98 0.00038
654479.81 4181656.98 0.00040 654529.81
4181656.98 0.00041
654579.81 4181656.98 0.00043 654629.81
4181656.98 0.00044
654679.81 4181656.98 0.00045 654729.81
4181656.98 0.00046
654779.81 4181656.98 0.00046 654829.81
4181656.98 0.00047

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         654879.81    4181656.98        0.00047                       654929.81
4181656.98        0.00047
         654979.81    4181656.98        0.00047                       655029.81
4181656.98        0.00046
         655079.81    4181656.98        0.00046                       655129.81
4181656.98        0.00045
         652679.81    4181706.98        0.00010                       652729.81
4181706.98        0.00011
         652779.81    4181706.98        0.00011                       652829.81
4181706.98        0.00012
         652879.81    4181706.98        0.00013                       652929.81
4181706.98        0.00013
         652979.81    4181706.98        0.00014                       653029.81
4181706.98        0.00014
         653079.81    4181706.98        0.00015                       653129.81
4181706.98        0.00015
```

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                                *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         653179.81    4181706.98        0.00016                       653229.81
4181706.98        0.00016
         653279.81    4181706.98        0.00017                       653329.81
4181706.98        0.00017
         653379.81    4181706.98        0.00018                       653429.81
4181706.98        0.00018
         653479.81    4181706.98        0.00018                       653529.81
4181706.98        0.00018
         653579.81    4181706.98        0.00018                       653629.81
4181706.98        0.00018
         653679.81    4181706.98        0.00017                       653729.81
4181706.98        0.00017
```

653779.81	4181706.98	0.00017	653829.81	4181706.98	0.00017
653879.81	4181706.98	0.00017	653929.81	4181706.98	0.00018
653979.81	4181706.98	0.00019	654029.81	4181706.98	0.00021
654079.81	4181706.98	0.00023	654129.81	4181706.98	0.00026
654179.81	4181706.98	0.00029	654229.81	4181706.98	0.00032
654279.81	4181706.98	0.00035	654329.81	4181706.98	0.00037
654379.81	4181706.98	0.00040	654429.81	4181706.98	0.00042
654479.81	4181706.98	0.00044	654529.81	4181706.98	0.00045
654579.81	4181706.98	0.00047	654629.81	4181706.98	0.00048
654679.81	4181706.98	0.00049	654729.81	4181706.98	0.00050
654779.81	4181706.98	0.00050	654829.81	4181706.98	0.00050
654879.81	4181706.98	0.00050	654929.81	4181706.98	0.00050
654979.81	4181706.98	0.00049	655029.81	4181706.98	0.00049
655079.81	4181706.98	0.00048	655129.81	4181706.98	0.00047
652679.81	4181756.98	0.00010	652729.81	4181756.98	0.00011
652779.81	4181756.98	0.00011	652829.81	4181756.98	0.00012
652879.81	4181756.98	0.00013	652929.81	4181756.98	0.00013
652979.81	4181756.98	0.00014	653029.81	4181756.98	0.00015
653079.81	4181756.98	0.00015	653129.81	4181756.98	0.00016
653179.81	4181756.98	0.00017	653229.81	4181756.98	0.00017
653279.81	4181756.98	0.00018	653329.81	4181756.98	0.00018
653379.81	4181756.98	0.00019	653429.81	4181756.98	0.00019
653479.81	4181756.98	0.00019	653529.81	4181756.98	0.00019
653579.81	4181756.98	0.00019	653629.81	4181756.98	0.00019
653679.81	4181756.98	0.00019	653729.81	4181756.98	0.00018

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654679.81	4181756.98	0.00053	654729.81	4181756.98	0.00054
654779.81	4181756.98	0.00054	654829.81	4181756.98	0.00054
654879.81	4181756.98	0.00054	654929.81	4181756.98	0.00053
654979.81	4181756.98	0.00052	655029.81	4181756.98	0.00051
655079.81	4181756.98	0.00050	655129.81	4181756.98	0.00049

652679.81 4181806.98 0.00010 652729.81 4181806.98 0.00011
652779.81 4181806.98 0.00012 652829.81 4181806.98 0.00012
652879.81 4181806.98 0.00013 652929.81 4181806.98 0.00014
652979.81 4181806.98 0.00015 653029.81 4181806.98 0.00015
653079.81 4181806.98 0.00016 653129.81 4181806.98 0.00017
653179.81 4181806.98 0.00017 653229.81 4181806.98 0.00018
653279.81 4181806.98 0.00019 653329.81 4181806.98 0.00019
653379.81 4181806.98 0.00020 653429.81 4181806.98 0.00020
653479.81 4181806.98 0.00021 653529.81 4181806.98 0.00021
653579.81 4181806.98 0.00021 653629.81 4181806.98 0.00020
653679.81 4181806.98 0.00020 653729.81 4181806.98 0.00020
653779.81 4181806.98 0.00020 653829.81 4181806.98 0.00020
653879.81 4181806.98 0.00021 653929.81 4181806.98 0.00022
653979.81 4181806.98 0.00024 654029.81 4181806.98 0.00026
654079.81 4181806.98 0.00029 654129.81 4181806.98 0.00033
654179.81 4181806.98 0.00036 654229.81 4181806.98 0.00040
654279.81 4181806.98 0.00043 654329.81 4181806.98 0.00046
654379.81 4181806.98 0.00049 654429.81 4181806.98 0.00051
654479.81 4181806.98 0.00053 654529.81 4181806.98 0.00055
654579.81 4181806.98 0.00056 654629.81 4181806.98 0.00057
654679.81 4181806.98 0.00058 654729.81 4181806.98 0.00058
654779.81 4181806.98 0.00058 654829.81 4181806.98 0.00058
654879.81 4181806.98 0.00057 654929.81 4181806.98 0.00056
654979.81 4181806.98 0.00055 655029.81 4181806.98 0.00054
655079.81 4181806.98 0.00053 655129.81 4181806.98 0.00051

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         652679.81    4181856.98        0.00010                       652729.81
4181856.98        0.00011
         652779.81    4181856.98        0.00012                       652829.81
4181856.98        0.00012
         652879.81    4181856.98        0.00013                       652929.81
4181856.98        0.00014
         652979.81    4181856.98        0.00015                       653029.81
4181856.98        0.00016
         653079.81    4181856.98        0.00017                       653129.81
4181856.98        0.00017
         653179.81    4181856.98        0.00018                       653229.81
4181856.98        0.00019
         653279.81    4181856.98        0.00020                       653329.81
4181856.98        0.00020
         653379.81    4181856.98        0.00021                       653429.81
4181856.98        0.00022
         653479.81    4181856.98        0.00022                       653529.81
4181856.98        0.00022
         653579.81    4181856.98        0.00022                       653629.81
4181856.98        0.00022
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         653679.81    4181856.98        0.00022                       653729.81
4181856.98        0.00022
         653779.81    4181856.98        0.00022                       653829.81
4181856.98        0.00022
         653879.81    4181856.98        0.00023                       653929.81
4181856.98        0.00024
         653979.81    4181856.98        0.00027                       654029.81
4181856.98        0.00030
```

654079.81 4181856.98 0.00033 654129.81 4181856.98 0.00037
654179.81 4181856.98 0.00041 654229.81 4181856.98 0.00045
654279.81 4181856.98 0.00049 654329.81 4181856.98 0.00052
654379.81 4181856.98 0.00055 654429.81 4181856.98 0.00057
654479.81 4181856.98 0.00059 654529.81 4181856.98 0.00061
654579.81 4181856.98 0.00062 654629.81 4181856.98 0.00063
654679.81 4181856.98 0.00063 654729.81 4181856.98 0.00063
654779.81 4181856.98 0.00063 654829.81 4181856.98 0.00062
654879.81 4181856.98 0.00061 654929.81 4181856.98 0.00060
654979.81 4181856.98 0.00058 655029.81 4181856.98 0.00057
655079.81 4181856.98 0.00055 655129.81 4181856.98 0.00053
652679.81 4181906.98 0.00010 652729.81 4181906.98 0.00011
652779.81 4181906.98 0.00012 652829.81 4181906.98 0.00013
652879.81 4181906.98 0.00013 652929.81 4181906.98 0.00014
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653079.81 4181906.98 0.00017 653129.81 4181906.98 0.00018
653179.81 4181906.98 0.00019 653229.81 4181906.98 0.00020
653279.81 4181906.98 0.00021 653329.81 4181906.98 0.00022
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653579.81 4181906.98 0.00024 653629.81 4181906.98 0.00024
653679.81 4181906.98 0.00024 653729.81 4181906.98 0.00024
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653879.81 4181906.98 0.00025 653929.81 4181906.98 0.00027
653979.81 4181906.98 0.00030 654029.81 4181906.98 0.00034

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
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652779.81	4181956.98	0.00012	652829.81	4181956.98	0.00013
652879.81	4181956.98	0.00014	652929.81	4181956.98	0.00015

652979.81 4181956.98 0.00016 653029.81 4181956.98 0.00017
653079.81 4181956.98 0.00018 653129.81 4181956.98 0.00019
653179.81 4181956.98 0.00020 653229.81 4181956.98 0.00021
653279.81 4181956.98 0.00022 653329.81 4181956.98 0.00023
653379.81 4181956.98 0.00024 653429.81 4181956.98 0.00025
653479.81 4181956.98 0.00025 653529.81 4181956.98 0.00026
653579.81 4181956.98 0.00026 653629.81 4181956.98 0.00026
653679.81 4181956.98 0.00026 653729.81 4181956.98 0.00026
653779.81 4181956.98 0.00026 653829.81 4181956.98 0.00027
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654079.81 4181956.98 0.00043 654129.81 4181956.98 0.00049
654179.81 4181956.98 0.00054 654229.81 4181956.98 0.00059
654279.81 4181956.98 0.00063 654329.81 4181956.98 0.00066
654379.81 4181956.98 0.00070 654429.81 4181956.98 0.00072
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654679.81 4181956.98 0.00075 654729.81 4181956.98 0.00074
654779.81 4181956.98 0.00072 654829.81 4181956.98 0.00070
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655079.81 4181956.98 0.00059 655129.81 4181956.98 0.00057
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652879.81 4182006.98 0.00014 652929.81 4182006.98 0.00015

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         652979.81    4182006.98        0.00016                       653029.81
4182006.98        0.00017
         653079.81    4182006.98        0.00019                       653129.81
4182006.98        0.00020
         653179.81    4182006.98        0.00021                       653229.81
4182006.98        0.00022
         653279.81    4182006.98        0.00023                       653329.81
4182006.98        0.00025
         653379.81    4182006.98        0.00026                       653429.81
4182006.98        0.00027
         653479.81    4182006.98        0.00027                       653529.81
4182006.98        0.00028
         653579.81    4182006.98        0.00028                       653629.81
4182006.98        0.00028
         653679.81    4182006.98        0.00028                       653729.81
4182006.98        0.00028
         653779.81    4182006.98        0.00029                       653829.81
4182006.98        0.00030
         653879.81    4182006.98        0.00032                       653929.81
4182006.98        0.00035
         653979.81    4182006.98        0.00039                       654029.81
4182006.98        0.00044
         654079.81    4182006.98        0.00050                       654129.81
4182006.98        0.00056
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         654179.81    4182006.98        0.00062                       654229.81
4182006.98        0.00067
         654279.81    4182006.98        0.00072                       654329.81
4182006.98        0.00076
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654379.81 4182006.98 0.00079 654429.81 4182006.98 0.00081
654479.81 4182006.98 0.00083 654529.81 4182006.98 0.00083
654579.81 4182006.98 0.00083 654629.81 4182006.98 0.00083
654679.81 4182006.98 0.00081 654729.81 4182006.98 0.00079
654779.81 4182006.98 0.00077 654829.81 4182006.98 0.00075
654879.81 4182006.98 0.00072 654929.81 4182006.98 0.00069
654979.81 4182006.98 0.00067 655029.81 4182006.98 0.00064
655079.81 4182006.98 0.00061 655129.81 4182006.98 0.00058
652679.81 4182056.98 0.00011 652729.81 4182056.98 0.00012
652779.81 4182056.98 0.00013 652829.81 4182056.98 0.00013
652879.81 4182056.98 0.00014 652929.81 4182056.98 0.00015
652979.81 4182056.98 0.00017 653029.81 4182056.98 0.00018
653079.81 4182056.98 0.00019 653129.81 4182056.98 0.00021
653179.81 4182056.98 0.00022 653229.81 4182056.98 0.00024
653279.81 4182056.98 0.00025 653329.81 4182056.98 0.00026
653379.81 4182056.98 0.00028 653429.81 4182056.98 0.00029
653479.81 4182056.98 0.00030 653529.81 4182056.98 0.00030
653579.81 4182056.98 0.00031 653629.81 4182056.98 0.00031
653679.81 4182056.98 0.00031 653729.81 4182056.98 0.00032
653779.81 4182056.98 0.00032 653829.81 4182056.98 0.00034
653879.81 4182056.98 0.00036 653929.81 4182056.98 0.00040
653979.81 4182056.98 0.00046 654029.81 4182056.98 0.00052
654079.81 4182056.98 0.00059 654129.81 4182056.98 0.00066
654179.81 4182056.98 0.00072 654229.81 4182056.98 0.00078
654279.81 4182056.98 0.00083 654329.81 4182056.98 0.00087

```
         654379.81    4182056.98        0.00090                       654429.81
4182056.98        0.00092
         654479.81    4182056.98        0.00093                       654529.81
4182056.98        0.00093
         654579.81    4182056.98        0.00092                       654629.81
4182056.98        0.00090
         654679.81    4182056.98        0.00088                       654729.81
4182056.98        0.00085
         654779.81    4182056.98        0.00082                       654829.81
4182056.98        0.00079
         654879.81    4182056.98        0.00076                       654929.81
4182056.98        0.00072
         654979.81    4182056.98        0.00069                       655029.81
4182056.98        0.00066
         655079.81    4182056.98        0.00063                       655129.81
4182056.98        0.00060
         652679.81    4182106.98        0.00012                       652729.81
4182106.98        0.00012
         652779.81    4182106.98        0.00013                       652829.81
4182106.98        0.00014
         652879.81    4182106.98        0.00015                       652929.81
4182106.98        0.00016
         652979.81    4182106.98        0.00017                       653029.81
4182106.98        0.00018
         653079.81    4182106.98        0.00020                       653129.81
4182106.98        0.00021
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         653179.81    4182106.98        0.00023                       653229.81
4182106.98        0.00025
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653279.81 4182106.98 0.00026 653329.81 4182106.98 0.00028
653379.81 4182106.98 0.00030 653429.81 4182106.98 0.00031
653479.81 4182106.98 0.00032 653529.81 4182106.98 0.00033
653579.81 4182106.98 0.00034 653629.81 4182106.98 0.00035
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653879.81 4182106.98 0.00042 653929.81 4182106.98 0.00047
653979.81 4182106.98 0.00053 654029.81 4182106.98 0.00061
654079.81 4182106.98 0.00069 654129.81 4182106.98 0.00077
654179.81 4182106.98 0.00085 654229.81 4182106.98 0.00091
654279.81 4182106.98 0.00096 654329.81 4182106.98 0.00100
654379.81 4182106.98 0.00102 654429.81 4182106.98 0.00103
654479.81 4182106.98 0.00104 654529.81 4182106.98 0.00103
654579.81 4182106.98 0.00101 654629.81 4182106.98 0.00098
654679.81 4182106.98 0.00095 654729.81 4182106.98 0.00091
654779.81 4182106.98 0.00087 654829.81 4182106.98 0.00083
654879.81 4182106.98 0.00079 654929.81 4182106.98 0.00075
654979.81 4182106.98 0.00072 655029.81 4182106.98 0.00068
655079.81 4182106.98 0.00065 655129.81 4182106.98 0.00061
652679.81 4182156.98 0.00013 652729.81 4182156.98 0.00013
652779.81 4182156.98 0.00014 652829.81 4182156.98 0.00014
652879.81 4182156.98 0.00015 652929.81 4182156.98 0.00016
652979.81 4182156.98 0.00018 653029.81 4182156.98 0.00019
653079.81 4182156.98 0.00020 653129.81 4182156.98 0.00022
653179.81 4182156.98 0.00024 653229.81 4182156.98 0.00026

```
         653279.81    4182156.98        0.00028                      653329.81
4182156.98        0.00030
         653379.81    4182156.98        0.00032                      653429.81
4182156.98        0.00034
         653479.81    4182156.98        0.00035                      653529.81
4182156.98        0.00037
         653579.81    4182156.98        0.00038                      653629.81
4182156.98        0.00038
         653679.81    4182156.98        0.00039                      653729.81
4182156.98        0.00040
         653779.81    4182156.98        0.00042                      653829.81
4182156.98        0.00044
         653879.81    4182156.98        0.00049                      653929.81
4182156.98        0.00055
         653979.81    4182156.98        0.00064                      654029.81
4182156.98        0.00073
         654079.81    4182156.98        0.00083                      654129.81
4182156.98        0.00092
         654179.81    4182156.98        0.00100                      654229.81
4182156.98        0.00107
         654279.81    4182156.98        0.00112                      654329.81
4182156.98        0.00115
         654379.81    4182156.98        0.00117                      654429.81
4182156.98        0.00117
         654479.81    4182156.98        0.00116                      654529.81
4182156.98        0.00113
         654579.81    4182156.98        0.00110                      654629.81
4182156.98        0.00106
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       11:24:15

                                PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL     ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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654679.81 4182156.98 0.00101 654729.81 4182156.98 0.00097
654779.81 4182156.98 0.00092 654829.81 4182156.98 0.00087
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654979.81 4182156.98 0.00074 655029.81 4182156.98 0.00070
655079.81 4182156.98 0.00066 655129.81 4182156.98 0.00062
652679.81 4182206.98 0.00013 652729.81 4182206.98 0.00014
652779.81 4182206.98 0.00014 652829.81 4182206.98 0.00015
652879.81 4182206.98 0.00016 652929.81 4182206.98 0.00017
652979.81 4182206.98 0.00018 653029.81 4182206.98 0.00020
653079.81 4182206.98 0.00021 653129.81 4182206.98 0.00023
653179.81 4182206.98 0.00025 653229.81 4182206.98 0.00027
653279.81 4182206.98 0.00030 653329.81 4182206.98 0.00032
653379.81 4182206.98 0.00035 653429.81 4182206.98 0.00037
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653579.81 4182206.98 0.00042 653629.81 4182206.98 0.00043
653679.81 4182206.98 0.00044 653729.81 4182206.98 0.00046
653779.81 4182206.98 0.00048 653829.81 4182206.98 0.00052
653879.81 4182206.98 0.00058 653929.81 4182206.98 0.00066
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654079.81 4182206.98 0.00100 654129.81 4182206.98 0.00110
654179.81 4182206.98 0.00119 654229.81 4182206.98 0.00126
654279.81 4182206.98 0.00130 654329.81 4182206.98 0.00133
654379.81 4182206.98 0.00133 654429.81 4182206.98 0.00132
654479.81 4182206.98 0.00129 654529.81 4182206.98 0.00124
654579.81 4182206.98 0.00119 654629.81 4182206.98 0.00114

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         654679.81    4182206.98        0.00108                       654729.81
4182206.98        0.00102
         654779.81    4182206.98        0.00096                       654829.81
4182206.98        0.00091
         654879.81    4182206.98        0.00085                       654929.81
4182206.98        0.00080
         654979.81    4182206.98        0.00076                       655029.81
4182206.98        0.00071
         655079.81    4182206.98        0.00067                       655129.81
4182206.98        0.00063
         652679.81    4182256.98        0.00014                       652729.81
4182256.98        0.00015
         652779.81    4182256.98        0.00016                       652829.81
4182256.98        0.00016
         652879.81    4182256.98        0.00017                       652929.81
4182256.98        0.00018
         652979.81    4182256.98        0.00019                       653029.81
4182256.98        0.00021
         653079.81    4182256.98        0.00022                       653129.81
4182256.98        0.00024
         653179.81    4182256.98        0.00026                       653229.81
4182256.98        0.00029
         653279.81    4182256.98        0.00032                       653329.81
4182256.98        0.00034
         653379.81    4182256.98        0.00037                       653429.81
4182256.98        0.00040
         653479.81    4182256.98        0.00043                       653529.81
4182256.98        0.00045
         653579.81    4182256.98        0.00047                       653629.81
4182256.98        0.00049
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
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         653579.81    4182306.98        0.00054                       653629.81
4182306.98        0.00056
         653679.81    4182306.98        0.00059                       653729.81
4182306.98        0.00062
         653779.81    4182306.98        0.00067                       653829.81
4182306.98        0.00074
         653879.81    4182306.98        0.00085                       653929.81
4182306.98        0.00100
         653979.81    4182306.98        0.00117                       654029.81
4182306.98        0.00135
         654079.81    4182306.98        0.00151                       654129.81
4182306.98        0.00164
         654179.81    4182306.98        0.00173                       654229.81
4182306.98        0.00178
         654279.81    4182306.98        0.00179                       654329.81
4182306.98        0.00177
         654379.81    4182306.98        0.00172                       654429.81
4182306.98        0.00165
         654479.81    4182306.98        0.00157                       654529.81
4182306.98        0.00148
         654579.81    4182306.98        0.00138                       654629.81
4182306.98        0.00129
         654679.81    4182306.98        0.00120                       654729.81
4182306.98        0.00112
         654779.81    4182306.98        0.00104                       654829.81
4182306.98        0.00096
         654879.81    4182306.98        0.00090                       654929.81
4182306.98        0.00084
         654979.81    4182306.98        0.00078                       655029.81
4182306.98        0.00073
         655079.81    4182306.98        0.00068                       655129.81
4182306.98        0.00064
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
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652779.81	4182356.98	0.00018	652829.81	4182356.98	0.00019
652879.81	4182356.98	0.00020	652929.81	4182356.98	0.00021
652979.81	4182356.98	0.00022	653029.81	4182356.98	0.00023
653079.81	4182356.98	0.00025	653129.81	4182356.98	0.00027
653179.81	4182356.98	0.00030	653229.81	4182356.98	0.00033
653279.81	4182356.98	0.00036	653329.81	4182356.98	0.00040
653379.81	4182356.98	0.00044	653429.81	4182356.98	0.00048
653479.81	4182356.98	0.00053	653529.81	4182356.98	0.00057
653579.81	4182356.98	0.00061	653629.81	4182356.98	0.00065
653679.81	4182356.98	0.00069	653729.81	4182356.98	0.00074
653779.81	4182356.98	0.00081	653829.81	4182356.98	0.00091
653879.81	4182356.98	0.00107	653929.81	4182356.98	0.00126
653979.81	4182356.98	0.00149	654029.81	4182356.98	0.00171
654079.81	4182356.98	0.00189	654129.81	4182356.98	0.00203
654179.81	4182356.98	0.00211	654229.81	4182356.98	0.00213
654279.81	4182356.98	0.00210	654329.81	4182356.98	0.00204
654379.81	4182356.98	0.00194	654429.81	4182356.98	0.00183
654479.81	4182356.98	0.00171	654529.81	4182356.98	0.00159
654579.81	4182356.98	0.00147	654629.81	4182356.98	0.00136
654679.81	4182356.98	0.00125	654729.81	4182356.98	0.00115
654779.81	4182356.98	0.00106	654829.81	4182356.98	0.00098
654879.81	4182356.98	0.00091	654929.81	4182356.98	0.00084

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         654979.81    4182356.98        0.00078                       655029.81
4182356.98        0.00073
         655079.81    4182356.98        0.00068                       655129.81
4182356.98        0.00063
         652679.81    4182406.98        0.00018                       652729.81
4182406.98        0.00019
         652779.81    4182406.98        0.00020                       652829.81
4182406.98        0.00021
         652879.81    4182406.98        0.00022                       652929.81
4182406.98        0.00023
         652979.81    4182406.98        0.00024                       653029.81
4182406.98        0.00025
         653079.81    4182406.98        0.00027                       653129.81
4182406.98        0.00029
         653179.81    4182406.98        0.00032                       653229.81
4182406.98        0.00035
         653279.81    4182406.98        0.00039                       653329.81
4182406.98        0.00043
         653379.81    4182406.98        0.00048                       653429.81
4182406.98        0.00054
         653479.81    4182406.98        0.00059                       653529.81
4182406.98        0.00065
         653579.81    4182406.98        0.00071                       653629.81
4182406.98        0.00077
         653679.81    4182406.98        0.00083                       653729.81
4182406.98        0.00090
         653779.81    4182406.98        0.00100                       653829.81
4182406.98        0.00116
         653879.81    4182406.98        0.00137                       653929.81
4182406.98        0.00164
         653979.81    4182406.98        0.00193                       654029.81
4182406.98        0.00220
         654079.81    4182406.98        0.00241                       654129.81
4182406.98        0.00253
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       11:24:15

                                  PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654179.81	4182406.98	0.00258	654229.81	4182406.98	0.00254
654279.81	4182406.98	0.00245	654329.81	4182406.98	0.00232
654379.81	4182406.98	0.00217	654429.81	4182406.98	0.00201
654479.81	4182406.98	0.00184	654529.81	4182406.98	0.00169
654579.81	4182406.98	0.00154	654629.81	4182406.98	0.00141
654679.81	4182406.98	0.00129	654729.81	4182406.98	0.00118
654779.81	4182406.98	0.00108	654829.81	4182406.98	0.00099
654879.81	4182406.98	0.00092	654929.81	4182406.98	0.00084
654979.81	4182406.98	0.00078	655029.81	4182406.98	0.00072
655079.81	4182406.98	0.00067	655129.81	4182406.98	0.00063
652679.81	4182456.98	0.00020	652729.81	4182456.98	0.00021
652779.81	4182456.98	0.00022	652829.81	4182456.98	0.00023
652879.81	4182456.98	0.00024	652929.81	4182456.98	0.00025
652979.81	4182456.98	0.00026	653029.81	4182456.98	0.00028
653079.81	4182456.98	0.00030	653129.81	4182456.98	0.00032
653179.81	4182456.98	0.00035	653229.81	4182456.98	0.00038
653279.81	4182456.98	0.00043	653329.81	4182456.98	0.00047
653379.81	4182456.98	0.00053	653429.81	4182456.98	0.00060
653479.81	4182456.98	0.00067	653529.81	4182456.98	0.00075
653579.81	4182456.98	0.00083	653629.81	4182456.98	0.00091
653679.81	4182456.98	0.00101	653729.81	4182456.98	0.00112
653779.81	4182456.98	0.00128	653829.81	4182456.98	0.00150

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         653879.81    4182456.98        0.00181                       653929.81
4182456.98        0.00219
         653979.81    4182456.98        0.00259                       654029.81
4182456.98        0.00291
         654079.81    4182456.98        0.00311                       654129.81
4182456.98        0.00319
         654179.81    4182456.98        0.00314                       654229.81
4182456.98        0.00302
         654279.81    4182456.98        0.00283                       654329.81
4182456.98        0.00262
         654379.81    4182456.98        0.00239                       654429.81
4182456.98        0.00217
         654479.81    4182456.98        0.00196                       654529.81
4182456.98        0.00178
         654579.81    4182456.98        0.00160                       654629.81
4182456.98        0.00145
         654679.81    4182456.98        0.00132                       654729.81
4182456.98        0.00120
         654779.81    4182456.98        0.00109                       654829.81
4182456.98        0.00099
         654879.81    4182456.98        0.00091                       654929.81
4182456.98        0.00084
         654979.81    4182456.98        0.00077                       655029.81
4182456.98        0.00071
         655079.81    4182456.98        0.00066                       655129.81
4182456.98        0.00061
         652679.81    4182506.98        0.00021                       652729.81
4182506.98        0.00022
         652779.81    4182506.98        0.00023                       652829.81
4182506.98        0.00024
         652879.81    4182506.98        0.00026                       652929.81
4182506.98        0.00027
         652979.81    4182506.98        0.00029                       653029.81
4182506.98        0.00031
         653079.81    4182506.98        0.00033                       653129.81
4182506.98        0.00036
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653179.81	4182506.98	0.00039	653229.81	4182506.98	0.00043
653279.81	4182506.98	0.00047	653329.81	4182506.98	0.00053
653379.81	4182506.98	0.00059	653429.81	4182506.98	0.00067
653479.81	4182506.98	0.00076	653529.81	4182506.98	0.00086
653579.81	4182506.98	0.00098	653629.81	4182506.98	0.00111
653679.81	4182506.98	0.00125	653729.81	4182506.98	0.00143
653779.81	4182506.98	0.00168	653829.81	4182506.98	0.00203
653879.81	4182506.98	0.00249	653929.81	4182506.98	0.00304
653979.81	4182506.98	0.00356	654029.81	4182506.98	0.00391
654079.81	4182506.98	0.00406	654129.81	4182506.98	0.00401
654179.81	4182506.98	0.00382	654229.81	4182506.98	0.00354
654279.81	4182506.98	0.00323	654329.81	4182506.98	0.00290
654379.81	4182506.98	0.00260	654429.81	4182506.98	0.00231
654479.81	4182506.98	0.00206	654529.81	4182506.98	0.00184
654579.81	4182506.98	0.00164	654629.81	4182506.98	0.00147
654679.81	4182506.98	0.00132	654729.81	4182506.98	0.00119
654779.81	4182506.98	0.00108	654829.81	4182506.98	0.00098
654879.81	4182506.98	0.00090	654929.81	4182506.98	0.00082
654979.81	4182506.98	0.00075	655029.81	4182506.98	0.00069
655079.81	4182506.98	0.00064	655129.81	4182506.98	0.00059
652679.81	4182556.98	0.00023	652729.81	4182556.98	0.00024

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         652779.81    4182556.98        0.00025                        652829.81
4182556.98        0.00026
         652879.81    4182556.98        0.00028                        652929.81
4182556.98        0.00030
         652979.81    4182556.98        0.00032                        653029.81
4182556.98        0.00034
         653079.81    4182556.98        0.00037                        653129.81
4182556.98        0.00040
         653179.81    4182556.98        0.00043                        653229.81
4182556.98        0.00048
         653279.81    4182556.98        0.00053                        653329.81
4182556.98        0.00059
         653379.81    4182556.98        0.00067                        653429.81
4182556.98        0.00076
         653479.81    4182556.98        0.00088                        653529.81
4182556.98        0.00101
         653579.81    4182556.98        0.00117                        653629.81
4182556.98        0.00136
         653679.81    4182556.98        0.00160                        653729.81
4182556.98        0.00189
         653779.81    4182556.98        0.00230                        653829.81
4182556.98        0.00286
         653879.81    4182556.98        0.00359                        653929.81
4182556.98        0.00439
         653979.81    4182556.98        0.00505                        654029.81
4182556.98        0.00536
         654079.81    4182556.98        0.00531                        654129.81
4182556.98        0.00501
         654179.81    4182556.98        0.00458                        654229.81
4182556.98        0.00409
         654279.81    4182556.98        0.00360                        654329.81
4182556.98        0.00316
         654379.81    4182556.98        0.00276                        654429.81
4182556.98        0.00242
         654479.81    4182556.98        0.00212                        654529.81
4182556.98        0.00187
         654579.81    4182556.98        0.00165                        654629.81
4182556.98        0.00147
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL     ***
                                 INCLUDING SOURCE(S):     PAREA1      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654679.81	4182556.98	0.00131	654729.81	4182556.98	0.00118
654779.81	4182556.98	0.00106	654829.81	4182556.98	0.00096
654879.81	4182556.98	0.00087	654929.81	4182556.98	0.00079
654979.81	4182556.98	0.00073	655029.81	4182556.98	0.00067
655079.81	4182556.98	0.00062	655129.81	4182556.98	0.00057
652679.81	4182606.98	0.00024	652729.81	4182606.98	0.00026
652779.81	4182606.98	0.00027	652829.81	4182606.98	0.00029
652879.81	4182606.98	0.00030	652929.81	4182606.98	0.00032
652979.81	4182606.98	0.00035	653029.81	4182606.98	0.00037
653079.81	4182606.98	0.00041	653129.81	4182606.98	0.00044
653179.81	4182606.98	0.00049	653229.81	4182606.98	0.00054
653279.81	4182606.98	0.00060	653329.81	4182606.98	0.00068
653379.81	4182606.98	0.00077	653429.81	4182606.98	0.00089
653479.81	4182606.98	0.00103	653529.81	4182606.98	0.00121
653579.81	4182606.98	0.00143	653629.81	4182606.98	0.00172
653679.81	4182606.98	0.00210	653729.81	4182606.98	0.00261
653779.81	4182606.98	0.00332	653829.81	4182606.98	0.00429
653879.81	4182606.98	0.00550	653929.81	4182606.98	0.00670
653979.81	4182606.98	0.00741	654029.81	4182606.98	0.00742
654079.81	4182606.98	0.00691	654129.81	4182606.98	0.00616

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         654179.81    4182606.98        0.00535                       654229.81
4182606.98        0.00459
         654279.81    4182606.98        0.00392                       654329.81
4182606.98        0.00335
         654379.81    4182606.98        0.00287                       654429.81
4182606.98        0.00247
         654479.81    4182606.98        0.00214                       654529.81
4182606.98        0.00186
         654579.81    4182606.98        0.00163                       654629.81
4182606.98        0.00144
         654679.81    4182606.98        0.00128                       654729.81
4182606.98        0.00114
         654779.81    4182606.98        0.00102                       654829.81
4182606.98        0.00092
         654879.81    4182606.98        0.00084                       654929.81
4182606.98        0.00076
         654979.81    4182606.98        0.00070                       655029.81
4182606.98        0.00064
         655079.81    4182606.98        0.00059                       655129.81
4182606.98        0.00055
         652679.81    4182656.98        0.00026                       652729.81
4182656.98        0.00028
         652779.81    4182656.98        0.00029                       652829.81
4182656.98        0.00031
         652879.81    4182656.98        0.00033                       652929.81
4182656.98        0.00036
         652979.81    4182656.98        0.00038                       653029.81
4182656.98        0.00041
         653079.81    4182656.98        0.00045                       653129.81
4182656.98        0.00050
         653179.81    4182656.98        0.00055                       653229.81
4182656.98        0.00061
         653279.81    4182656.98        0.00069                       653329.81
4182656.98        0.00079
         653379.81    4182656.98        0.00091                       653429.81
4182656.98        0.00105
         653479.81    4182656.98        0.00124                       653529.81
4182656.98        0.00148
         653579.81    4182656.98        0.00181                       653629.81
4182656.98        0.00224
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
```

INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653679.81	4182656.98	0.00286	653729.81	4182656.98	0.00378
653779.81	4182656.98	0.00515	653829.81	4182656.98	0.00703
653879.81	4182656.98	0.00920	653929.81	4182656.98	0.01094
653979.81	4182656.98	0.01121	654029.81	4182656.98	0.01023
654079.81	4182656.98	0.00877	654129.81	4182656.98	0.00731
654179.81	4182656.98	0.00603	654229.81	4182656.98	0.00497
654279.81	4182656.98	0.00412	654329.81	4182656.98	0.00344
654379.81	4182656.98	0.00289	654429.81	4182656.98	0.00245
654479.81	4182656.98	0.00210	654529.81	4182656.98	0.00181
654579.81	4182656.98	0.00158	654629.81	4182656.98	0.00139
654679.81	4182656.98	0.00123	654729.81	4182656.98	0.00109
654779.81	4182656.98	0.00098	654829.81	4182656.98	0.00088
654879.81	4182656.98	0.00080	654929.81	4182656.98	0.00073
654979.81	4182656.98	0.00066	655029.81	4182656.98	0.00061
655079.81	4182656.98	0.00056	655129.81	4182656.98	0.00052
652679.81	4182706.98	0.00028	652729.81	4182706.98	0.00030
652779.81	4182706.98	0.00032	652829.81	4182706.98	0.00034
652879.81	4182706.98	0.00037	652929.81	4182706.98	0.00039
652979.81	4182706.98	0.00042	653029.81	4182706.98	0.00046

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         653079.81    4182706.98        0.00051                       653129.81
4182706.98        0.00056
         653179.81    4182706.98        0.00062                       653229.81
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         653279.81    4182706.98        0.00080                       653329.81
4182706.98        0.00092
         653379.81    4182706.98        0.00108                       653429.81
4182706.98        0.00127
         653479.81    4182706.98        0.00153                       653529.81
4182706.98        0.00187
         653579.81    4182706.98        0.00235                       653629.81
4182706.98        0.00306
         653679.81    4182706.98        0.00415                       653729.81
4182706.98        0.00595
         653779.81    4182706.98        0.00895                       653829.81
4182706.98        0.01328
         653879.81    4182706.98        0.01779                       653929.81
4182706.98        0.01957
         653979.81    4182706.98        0.01705                       654029.81
4182706.98        0.01354
         654079.81    4182706.98        0.01053                       654129.81
4182706.98        0.00820
         654179.81    4182706.98        0.00645                       654229.81
4182706.98        0.00514
         654279.81    4182706.98        0.00415                       654329.81
4182706.98        0.00340
         654379.81    4182706.98        0.00282                       654429.81
4182706.98        0.00237
         654479.81    4182706.98        0.00201                       654529.81
4182706.98        0.00173
         654579.81    4182706.98        0.00150                       654629.81
4182706.98        0.00131
         654679.81    4182706.98        0.00116                       654729.81
4182706.98        0.00103
         654779.81    4182706.98        0.00092                       654829.81
4182706.98        0.00083
         654879.81    4182706.98        0.00075                       654929.81
4182706.98        0.00069
         654979.81    4182706.98        0.00063                       655029.81
4182706.98        0.00058
         655079.81    4182706.98        0.00053                       655129.81
4182706.98        0.00050
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*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
652679.81	4182756.98	0.00030	652729.81	4182756.98	0.00032
652779.81	4182756.98	0.00035	652829.81	4182756.98	0.00037
652879.81	4182756.98	0.00040	652929.81	4182756.98	0.00044
652979.81	4182756.98	0.00048	653029.81	4182756.98	0.00052
653079.81	4182756.98	0.00057	653129.81	4182756.98	0.00064
653179.81	4182756.98	0.00072	653229.81	4182756.98	0.00081
653279.81	4182756.98	0.00094	653329.81	4182756.98	0.00110
653379.81	4182756.98	0.00130	653429.81	4182756.98	0.00157
653479.81	4182756.98	0.00193	653529.81	4182756.98	0.00244
653579.81	4182756.98	0.00321	653629.81	4182756.98	0.00442
653679.81	4182756.98	0.00656	653729.81	4182756.98	0.01081
653779.81	4182756.98	0.01954	653829.81	4182756.98	0.03401
653879.81	4182756.98	0.04721	653929.81	4182756.98	0.03748
653979.81	4182756.98	0.02382	654029.81	4182756.98	0.01626
654079.81	4182756.98	0.01161	654129.81	4182756.98	0.00856
654179.81	4182756.98	0.00649	654229.81	4182756.98	0.00504
654279.81	4182756.98	0.00400	654329.81	4182756.98	0.00323
654379.81	4182756.98	0.00266	654429.81	4182756.98	0.00223

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         654479.81    4182756.98        0.00189                       654529.81
4182756.98        0.00162
         654579.81    4182756.98        0.00140                       654629.81
4182756.98        0.00123
         654679.81    4182756.98        0.00108                       654729.81
4182756.98        0.00096
         654779.81    4182756.98        0.00087                       654829.81
4182756.98        0.00078
         654879.81    4182756.98        0.00071                       654929.81
4182756.98        0.00065
         654979.81    4182756.98        0.00059                       655029.81
4182756.98        0.00055
         655079.81    4182756.98        0.00051                       655129.81
4182756.98        0.00047
         652679.81    4182806.98        0.00033                       652729.81
4182806.98        0.00036
         652779.81    4182806.98        0.00038                       652829.81
4182806.98        0.00041
         652879.81    4182806.98        0.00045                       652929.81
4182806.98        0.00049
         652979.81    4182806.98        0.00053                       653029.81
4182806.98        0.00059
         653079.81    4182806.98        0.00065                       653129.81
4182806.98        0.00073
         653179.81    4182806.98        0.00083                       653229.81
4182806.98        0.00095
         653279.81    4182806.98        0.00111                       653329.81
4182806.98        0.00132
         653379.81    4182806.98        0.00159                       653429.81
4182806.98        0.00197
         653479.81    4182806.98        0.00251                       653529.81
4182806.98        0.00331
         653579.81    4182806.98        0.00460                       653629.81
4182806.98        0.00693
         653679.81    4182806.98        0.01202                       653729.81
4182806.98        0.02695
         653929.81    4182806.98        0.05098                       653979.81
4182806.98        0.02726
         654029.81    4182806.98        0.01709                       654079.81
4182806.98        0.01157
         654129.81    4182806.98        0.00824                       654179.81
4182806.98        0.00611
         654229.81    4182806.98        0.00469                       654279.81
4182806.98        0.00369
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       11:24:15
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         654329.81    4182806.98        0.00297                       654379.81
4182806.98        0.00244
         654429.81    4182806.98        0.00204                       654479.81
4182806.98        0.00173
         654529.81    4182806.98        0.00149                       654579.81
4182806.98        0.00129
         654629.81    4182806.98        0.00114                       654679.81
4182806.98        0.00101
         654729.81    4182806.98        0.00090                       654779.81
4182806.98        0.00081
         654829.81    4182806.98        0.00073                       654879.81
4182806.98        0.00067
         654929.81    4182806.98        0.00061                       654979.81
4182806.98        0.00056
         655029.81    4182806.98        0.00052                       655079.81
4182806.98        0.00048
         655129.81    4182806.98        0.00045                       652679.81
4182856.98        0.00036
         652729.81    4182856.98        0.00039                       652779.81
4182856.98        0.00042
         652829.81    4182856.98        0.00046                       652879.81
4182856.98        0.00050
         652929.81    4182856.98        0.00054                       652979.81
4182856.98        0.00060
         653029.81    4182856.98        0.00066                       653079.81
4182856.98        0.00074
         653129.81    4182856.98        0.00084                       653179.81
4182856.98        0.00096
         653229.81    4182856.98        0.00112                       653279.81
4182856.98        0.00132
         653329.81    4182856.98        0.00159                       653379.81
4182856.98        0.00197
         653429.81    4182856.98        0.00251                       653479.81
4182856.98        0.00332
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         653529.81    4182856.98        0.00463                      653579.81
4182856.98        0.00698
         653629.81    4182856.98        0.01208                      653679.81
4182856.98        0.02894
         653929.81    4182856.98        0.05163                      653979.81
4182856.98        0.02630
         654029.81    4182856.98        0.01578                      654079.81
4182856.98        0.01041
         654129.81    4182856.98        0.00733                      654179.81
4182856.98        0.00542
         654229.81    4182856.98        0.00416                      654279.81
4182856.98        0.00328
         654329.81    4182856.98        0.00266                      654379.81
4182856.98        0.00219
         654429.81    4182856.98        0.00184                      654479.81
4182856.98        0.00157
         654529.81    4182856.98        0.00136                      654579.81
4182856.98        0.00119
         654629.81    4182856.98        0.00105                      654679.81
4182856.98        0.00093
         654729.81    4182856.98        0.00083                      654779.81
4182856.98        0.00075
         654829.81    4182856.98        0.00069                      654879.81
4182856.98        0.00063
         654929.81    4182856.98        0.00058                      654979.81
4182856.98        0.00053
         655029.81    4182856.98        0.00049                      655079.81
4182856.98        0.00046
         655129.81    4182856.98        0.00043                      652679.81
4182906.98        0.00039
         652729.81    4182906.98        0.00042                      652779.81
4182906.98        0.00046
         652829.81    4182906.98        0.00050                      652879.81
4182906.98        0.00054
         652929.81    4182906.98        0.00060                      652979.81
4182906.98        0.00067
         653029.81    4182906.98        0.00074                      653079.81
4182906.98        0.00084
         653129.81    4182906.98        0.00095                      653179.81
4182906.98        0.00110
         653229.81    4182906.98        0.00130                      653279.81
4182906.98        0.00156
         653329.81    4182906.98        0.00192                      653379.81
4182906.98        0.00244
         653429.81    4182906.98        0.00323                      653479.81
4182906.98        0.00450
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***       11:24:15
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):   PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653529.81	4182906.98	0.00674	653579.81	4182906.98	0.01135
653629.81	4182906.98	0.02510	653929.81	4182906.98	0.04492
653979.81	4182906.98	0.02161	654029.81	4182906.98	0.01285
654079.81	4182906.98	0.00855	654129.81	4182906.98	0.00610
654179.81	4182906.98	0.00457	654229.81	4182906.98	0.00355
654279.81	4182906.98	0.00284	654329.81	4182906.98	0.00232
654379.81	4182906.98	0.00194	654429.81	4182906.98	0.00164
654479.81	4182906.98	0.00141	654529.81	4182906.98	0.00123
654579.81	4182906.98	0.00108	654629.81	4182906.98	0.00096
654679.81	4182906.98	0.00086	654729.81	4182906.98	0.00077
654779.81	4182906.98	0.00070	654829.81	4182906.98	0.00064
654879.81	4182906.98	0.00059	654929.81	4182906.98	0.00054
654979.81	4182906.98	0.00050	655029.81	4182906.98	0.00047
655079.81	4182906.98	0.00044	655129.81	4182906.98	0.00041
652679.81	4182956.98	0.00042	652729.81	4182956.98	0.00045
652779.81	4182956.98	0.00049	652829.81	4182956.98	0.00054

```
         652879.81    4182956.98        0.00059                       652929.81
4182956.98        0.00065
         652979.81    4182956.98        0.00073                       653029.81
4182956.98        0.00082
         653079.81    4182956.98        0.00093                       653129.81
4182956.98        0.00107
         653179.81    4182956.98        0.00125                       653229.81
4182956.98        0.00149
         653279.81    4182956.98        0.00183                       653329.81
4182956.98        0.00231
         653379.81    4182956.98        0.00304                       653429.81
4182956.98        0.00423
         653479.81    4182956.98        0.00631                       653529.81
4182956.98        0.01038
         653579.81    4182956.98        0.02097                       653929.81
4182956.98        0.02774
         653979.81    4182956.98        0.01473                       654029.81
4182956.98        0.00942
         654079.81    4182956.98        0.00658                       654129.81
4182956.98        0.00487
         654179.81    4182956.98        0.00374                       654229.81
4182956.98        0.00297
         654279.81    4182956.98        0.00242                       654329.81
4182956.98        0.00201
         654379.81    4182956.98        0.00169                       654429.81
4182956.98        0.00145
         654479.81    4182956.98        0.00126                       654529.81
4182956.98        0.00111
         654579.81    4182956.98        0.00098                       654629.81
4182956.98        0.00088
         654679.81    4182956.98        0.00079                       654729.81
4182956.98        0.00072
         654779.81    4182956.98        0.00065                       654829.81
4182956.98        0.00060
         654879.81    4182956.98        0.00055                       654929.81
4182956.98        0.00051
         654979.81    4182956.98        0.00047                       655029.81
4182956.98        0.00044
         655079.81    4182956.98        0.00041                       655129.81
4182956.98        0.00039
         652679.81    4183006.98        0.00044                       652729.81
4183006.98        0.00048
         652779.81    4183006.98        0.00052                       652829.81
4183006.98        0.00057
         652879.81    4183006.98        0.00063                       652929.81
4183006.98        0.00070
         652979.81    4183006.98        0.00078                       653029.81
4183006.98        0.00089
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                           *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   PAREA1   ,

                                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

654779.81 4183006.98 0.00060 654829.81 4183006.98 0.00056
654879.81 4183006.98 0.00052 654929.81 4183006.98 0.00048
654979.81 4183006.98 0.00045 655029.81 4183006.98 0.00042
655079.81 4183006.98 0.00039 655129.81 4183006.98 0.00037
652679.81 4183056.98 0.00046 652729.81 4183056.98 0.00049
652779.81 4183056.98 0.00054 652829.81 4183056.98 0.00060
652879.81 4183056.98 0.00066 652929.81 4183056.98 0.00074
652979.81 4183056.98 0.00084 653029.81 4183056.98 0.00096
653079.81 4183056.98 0.00111 653129.81 4183056.98 0.00130
653179.81 4183056.98 0.00157 653229.81 4183056.98 0.00194
653279.81 4183056.98 0.00249 653329.81 4183056.98 0.00341
653379.81 4183056.98 0.00521 653429.81 4183056.98 0.00914
653479.81 4183056.98 0.01801 653529.81 4183056.98 0.04471
653729.81 4183056.98 0.05576 653779.81 4183056.98 0.03067
653829.81 4183056.98 0.01816 653879.81 4183056.98 0.01167
653929.81 4183056.98 0.00826 653979.81 4183056.98 0.00618
654029.81 4183056.98 0.00476 654079.81 4183056.98 0.00376
654129.81 4183056.98 0.00302 654179.81 4183056.98 0.00247
654229.81 4183056.98 0.00206 654279.81 4183056.98 0.00174
654329.81 4183056.98 0.00148 654379.81 4183056.98 0.00129
654429.81 4183056.98 0.00113 654479.81 4183056.98 0.00100
654529.81 4183056.98 0.00089 654579.81 4183056.98 0.00080
654629.81 4183056.98 0.00072 654679.81 4183056.98 0.00066
654729.81 4183056.98 0.00060 654779.81 4183056.98 0.00056
654829.81 4183056.98 0.00052 654879.81 4183056.98 0.00048

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   PAREA1   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

654029.81 4183106.98 0.00350 654079.81 4183106.98 0.00289
654129.81 4183106.98 0.00241 654179.81 4183106.98 0.00203
654229.81 4183106.98 0.00173 654279.81 4183106.98 0.00149
654329.81 4183106.98 0.00129 654379.81 4183106.98 0.00113
654429.81 4183106.98 0.00100 654479.81 4183106.98 0.00089
654529.81 4183106.98 0.00080 654579.81 4183106.98 0.00072
654629.81 4183106.98 0.00066 654679.81 4183106.98 0.00060
654729.81 4183106.98 0.00055 654779.81 4183106.98 0.00051
654829.81 4183106.98 0.00048 654879.81 4183106.98 0.00044
654929.81 4183106.98 0.00042 654979.81 4183106.98 0.00039
655029.81 4183106.98 0.00037 655079.81 4183106.98 0.00035
655129.81 4183106.98 0.00033 652679.81 4183156.98 0.00047
652729.81 4183156.98 0.00051 652779.81 4183156.98 0.00057
652829.81 4183156.98 0.00063 652879.81 4183156.98 0.00070
652929.81 4183156.98 0.00080 652979.81 4183156.98 0.00091
653029.81 4183156.98 0.00106 653079.81 4183156.98 0.00125
653129.81 4183156.98 0.00151 653179.81 4183156.98 0.00187
653229.81 4183156.98 0.00241 653279.81 4183156.98 0.00337
653329.81 4183156.98 0.00597 653379.81 4183156.98 0.01259
653429.81 4183156.98 0.02072 653479.81 4183156.98 0.02648
653529.81 4183156.98 0.02769 653579.81 4183156.98 0.02370
653629.81 4183156.98 0.01774 653679.81 4183156.98 0.01318
653729.81 4183156.98 0.00987 653779.81 4183156.98 0.00742
653829.81 4183156.98 0.00566 653879.81 4183156.98 0.00450
653929.81 4183156.98 0.00369 653979.81 4183156.98 0.00310

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654129.81	4183156.98	0.00195	654179.81	4183156.98	0.00169
654229.81	4183156.98	0.00147	654279.81	4183156.98	0.00128
654329.81	4183156.98	0.00113	654379.81	4183156.98	0.00100
654429.81	4183156.98	0.00089	654479.81	4183156.98	0.00079
654529.81	4183156.98	0.00072	654579.81	4183156.98	0.00065
654629.81	4183156.98	0.00059	654679.81	4183156.98	0.00055
654729.81	4183156.98	0.00051	654779.81	4183156.98	0.00047
654829.81	4183156.98	0.00044	654879.81	4183156.98	0.00041
654929.81	4183156.98	0.00038	654979.81	4183156.98	0.00036
655029.81	4183156.98	0.00034	655079.81	4183156.98	0.00032
655129.81	4183156.98	0.00031	652679.81	4183206.98	0.00047
652729.81	4183206.98	0.00052	652779.81	4183206.98	0.00057
652829.81	4183206.98	0.00064	652879.81	4183206.98	0.00072

652929.81 4183206.98 0.00082 652979.81 4183206.98 0.00094
653029.81 4183206.98 0.00110 653079.81 4183206.98 0.00130
653129.81 4183206.98 0.00157 653179.81 4183206.98 0.00196
653229.81 4183206.98 0.00253 653279.81 4183206.98 0.00351
653329.81 4183206.98 0.00531 653379.81 4183206.98 0.00770
653429.81 4183206.98 0.01007 653479.81 4183206.98 0.01166
653529.81 4183206.98 0.01176 653579.81 4183206.98 0.01054
653629.81 4183206.98 0.00885 653679.81 4183206.98 0.00722
653729.81 4183206.98 0.00578 653779.81 4183206.98 0.00461
653829.81 4183206.98 0.00375 653879.81 4183206.98 0.00313
653929.81 4183206.98 0.00268 653979.81 4183206.98 0.00232
654029.81 4183206.98 0.00204 654079.81 4183206.98 0.00180
654129.81 4183206.98 0.00159 654179.81 4183206.98 0.00141
654229.81 4183206.98 0.00125 654279.81 4183206.98 0.00111
654329.81 4183206.98 0.00099 654379.81 4183206.98 0.00089
654429.81 4183206.98 0.00080 654479.81 4183206.98 0.00072
654529.81 4183206.98 0.00065 654579.81 4183206.98 0.00059
654629.81 4183206.98 0.00054 654679.81 4183206.98 0.00050
654729.81 4183206.98 0.00046 654779.81 4183206.98 0.00043
654829.81 4183206.98 0.00040 654879.81 4183206.98 0.00038
654929.81 4183206.98 0.00036 654979.81 4183206.98 0.00034
655029.81 4183206.98 0.00032 655079.81 4183206.98 0.00030
655129.81 4183206.98 0.00029 652679.81 4183256.98 0.00048
652729.81 4183256.98 0.00053 652779.81 4183256.98 0.00058
652829.81 4183256.98 0.00065 652879.81 4183256.98 0.00074

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
652929.81	4183256.98	0.00084	652979.81	4183256.98	0.00097
653029.81	4183256.98	0.00113	653079.81	4183256.98	0.00134
653129.81	4183256.98	0.00162	653179.81	4183256.98	0.00199
653229.81	4183256.98	0.00252	653279.81	4183256.98	0.00331
653329.81	4183256.98	0.00440	653379.81	4183256.98	0.00558
653429.81	4183256.98	0.00660	653479.81	4183256.98	0.00710
653529.81	4183256.98	0.00693	653579.81	4183256.98	0.00625
653629.81	4183256.98	0.00538	653679.81	4183256.98	0.00453
653729.81	4183256.98	0.00376	653779.81	4183256.98	0.00312
653829.81	4183256.98	0.00265	653879.81	4183256.98	0.00230
653929.81	4183256.98	0.00202	653979.81	4183256.98	0.00179
654029.81	4183256.98	0.00161	654079.81	4183256.98	0.00145
654129.81	4183256.98	0.00131	654179.81	4183256.98	0.00119
654229.81	4183256.98	0.00108	654279.81	4183256.98	0.00097

654329.81 4183256.98 0.00088 654379.81 4183256.98 0.00079
654429.81 4183256.98 0.00072 654479.81 4183256.98 0.00065
654529.81 4183256.98 0.00060 654579.81 4183256.98 0.00055
654629.81 4183256.98 0.00050 654679.81 4183256.98 0.00046
654729.81 4183256.98 0.00043 654779.81 4183256.98 0.00040
654829.81 4183256.98 0.00037 654879.81 4183256.98 0.00035
654929.81 4183256.98 0.00033 654979.81 4183256.98 0.00031
655029.81 4183256.98 0.00029 655079.81 4183256.98 0.00028
655129.81 4183256.98 0.00027 652679.81 4183306.98 0.00049
652729.81 4183306.98 0.00054 652779.81 4183306.98 0.00060
652829.81 4183306.98 0.00067 652879.81 4183306.98 0.00076
652929.81 4183306.98 0.00087 652979.81 4183306.98 0.00100
653029.81 4183306.98 0.00116 653079.81 4183306.98 0.00136
653129.81 4183306.98 0.00161 653179.81 4183306.98 0.00195
653229.81 4183306.98 0.00240 653279.81 4183306.98 0.00299
653329.81 4183306.98 0.00367 653379.81 4183306.98 0.00433
653429.81 4183306.98 0.00478 653479.81 4183306.98 0.00489
653529.81 4183306.98 0.00464 653579.81 4183306.98 0.00416
653629.81 4183306.98 0.00361 653679.81 4183306.98 0.00308
653729.81 4183306.98 0.00262 653779.81 4183306.98 0.00225
653829.81 4183306.98 0.00197 653879.81 4183306.98 0.00175
653929.81 4183306.98 0.00157 653979.81 4183306.98 0.00142
654029.81 4183306.98 0.00130 654079.81 4183306.98 0.00119
654129.81 4183306.98 0.00110 654179.81 4183306.98 0.00101
654229.81 4183306.98 0.00093 654279.81 4183306.98 0.00085

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654329.81	4183306.98	0.00078	654379.81	4183306.98	0.00071
654429.81	4183306.98	0.00065	654479.81	4183306.98	0.00060
654529.81	4183306.98	0.00055	654579.81	4183306.98	0.00051
654629.81	4183306.98	0.00047	654679.81	4183306.98	0.00043
654729.81	4183306.98	0.00040	654779.81	4183306.98	0.00037
654829.81	4183306.98	0.00035	654879.81	4183306.98	0.00033
654929.81	4183306.98	0.00031	654979.81	4183306.98	0.00029
655029.81	4183306.98	0.00028	655079.81	4183306.98	0.00026
655129.81	4183306.98	0.00025	652679.81	4183356.98	0.00050
652729.81	4183356.98	0.00056	652779.81	4183356.98	0.00062
652829.81	4183356.98	0.00069	652879.81	4183356.98	0.00078
652929.81	4183356.98	0.00088	652979.81	4183356.98	0.00101
653029.81	4183356.98	0.00115	653079.81	4183356.98	0.00134
653129.81	4183356.98	0.00156	653179.81	4183356.98	0.00185

653229.81 4183356.98 0.00222 653279.81 4183356.98 0.00265
653329.81 4183356.98 0.00309 653379.81 4183356.98 0.00344
653429.81 4183356.98 0.00362 653479.81 4183356.98 0.00357
653529.81 4183356.98 0.00332 653579.81 4183356.98 0.00295
653629.81 4183356.98 0.00257 653679.81 4183356.98 0.00222
653729.81 4183356.98 0.00192 653779.81 4183356.98 0.00169
653829.81 4183356.98 0.00151 653879.81 4183356.98 0.00137
653929.81 4183356.98 0.00125 653979.81 4183356.98 0.00115
654029.81 4183356.98 0.00106 654079.81 4183356.98 0.00099
654129.81 4183356.98 0.00092 654179.81 4183356.98 0.00086
654229.81 4183356.98 0.00080 654279.81 4183356.98 0.00075
654329.81 4183356.98 0.00069 654379.81 4183356.98 0.00064
654429.81 4183356.98 0.00060 654479.81 4183356.98 0.00055
654529.81 4183356.98 0.00051 654579.81 4183356.98 0.00047
654629.81 4183356.98 0.00044 654679.81 4183356.98 0.00041
654729.81 4183356.98 0.00038 654779.81 4183356.98 0.00035
654829.81 4183356.98 0.00033 654879.81 4183356.98 0.00031
654929.81 4183356.98 0.00029 654979.81 4183356.98 0.00027
655029.81 4183356.98 0.00026 655079.81 4183356.98 0.00025
655129.81 4183356.98 0.00023 652679.81 4183406.98 0.00052
652729.81 4183406.98 0.00057 652779.81 4183406.98 0.00063
652829.81 4183406.98 0.00070 652879.81 4183406.98 0.00079
652929.81 4183406.98 0.00088 652979.81 4183406.98 0.00099
653029.81 4183406.98 0.00113 653079.81 4183406.98 0.00129
653129.81 4183406.98 0.00149 653179.81 4183406.98 0.00174

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653229.81	4183406.98	0.00203	653279.81	4183406.98	0.00233
653329.81	4183406.98	0.00260	653379.81	4183406.98	0.00278
653429.81	4183406.98	0.00282	653479.81	4183406.98	0.00270
653529.81	4183406.98	0.00248	653579.81	4183406.98	0.00220
653629.81	4183406.98	0.00192	653679.81	4183406.98	0.00167
653729.81	4183406.98	0.00147	653779.81	4183406.98	0.00132
653829.81	4183406.98	0.00120	653879.81	4183406.98	0.00110
653929.81	4183406.98	0.00102	653979.81	4183406.98	0.00095
654029.81	4183406.98	0.00088	654079.81	4183406.98	0.00083
654129.81	4183406.98	0.00079	654179.81	4183406.98	0.00074
654229.81	4183406.98	0.00070	654279.81	4183406.98	0.00066
654329.81	4183406.98	0.00062	654379.81	4183406.98	0.00058
654429.81	4183406.98	0.00054	654479.81	4183406.98	0.00051
654529.81	4183406.98	0.00047	654579.81	4183406.98	0.00044

654629.81 4183406.98 0.00041 654679.81 4183406.98 0.00038
654729.81 4183406.98 0.00036 654779.81 4183406.98 0.00033
654829.81 4183406.98 0.00031 654879.81 4183406.98 0.00029
654929.81 4183406.98 0.00028 654979.81 4183406.98 0.00026
655029.81 4183406.98 0.00025 655079.81 4183406.98 0.00023
655129.81 4183406.98 0.00022 652679.81 4183456.98 0.00053
652729.81 4183456.98 0.00058 652779.81 4183456.98 0.00064
652829.81 4183456.98 0.00070 652879.81 4183456.98 0.00078
652929.81 4183456.98 0.00087 652979.81 4183456.98 0.00097
653029.81 4183456.98 0.00109 653079.81 4183456.98 0.00124
653129.81 4183456.98 0.00141 653179.81 4183456.98 0.00161
653229.81 4183456.98 0.00183 653279.81 4183456.98 0.00204
653329.81 4183456.98 0.00219 653379.81 4183456.98 0.00226
653429.81 4183456.98 0.00223 653479.81 4183456.98 0.00210
653529.81 4183456.98 0.00191 653579.81 4183456.98 0.00169
653629.81 4183456.98 0.00149 653679.81 4183456.98 0.00131
653729.81 4183456.98 0.00117 653779.81 4183456.98 0.00106
653829.81 4183456.98 0.00098 653879.81 4183456.98 0.00090
653929.81 4183456.98 0.00084 653979.81 4183456.98 0.00079
654029.81 4183456.98 0.00074 654079.81 4183456.98 0.00071
654129.81 4183456.98 0.00067 654179.81 4183456.98 0.00064
654229.81 4183456.98 0.00061 654279.81 4183456.98 0.00058
654329.81 4183456.98 0.00055 654379.81 4183456.98 0.00052
654429.81 4183456.98 0.00049 654479.81 4183456.98 0.00047
654529.81 4183456.98 0.00044 654579.81 4183456.98 0.00041

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         654629.81    4183456.98        0.00039                       654679.81
4183456.98        0.00036
         654729.81    4183456.98        0.00034                       654779.81
4183456.98        0.00032
         654829.81    4183456.98        0.00030                       654879.81
4183456.98        0.00028
         654929.81    4183456.98        0.00026                       654979.81
4183456.98        0.00025
         655029.81    4183456.98        0.00024                       655079.81
4183456.98        0.00022
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         655129.81    4183456.98        0.00021                       652679.81
4183506.98        0.00053
         652729.81    4183506.98        0.00058                       652779.81
4183506.98        0.00063
         652829.81    4183506.98        0.00069                       652879.81
4183506.98        0.00076
         652929.81    4183506.98        0.00084                       652979.81
4183506.98        0.00093
         653029.81    4183506.98        0.00105                       653079.81
4183506.98        0.00118
         653129.81    4183506.98        0.00133                       653179.81
4183506.98        0.00149
         653229.81    4183506.98        0.00165                       653279.81
4183506.98        0.00177
         653329.81    4183506.98        0.00185                       653379.81
4183506.98        0.00186
         653429.81    4183506.98        0.00179                       653479.81
4183506.98        0.00166
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        653529.81    4183506.98        0.00150                    653579.81
4183506.98        0.00133
        653629.81    4183506.98        0.00118                    653679.81
4183506.98        0.00105
        653729.81    4183506.98        0.00095                    653779.81
4183506.98        0.00087
        653829.81    4183506.98        0.00081                    653879.81
4183506.98        0.00075
        653929.81    4183506.98        0.00071                    653979.81
4183506.98        0.00067
        654029.81    4183506.98        0.00063                    654079.81
4183506.98        0.00061
        654129.81    4183506.98        0.00058                    654179.81
4183506.98        0.00056
        654229.81    4183506.98        0.00054                    654279.81
4183506.98        0.00051
        654329.81    4183506.98        0.00049                    654379.81
4183506.98        0.00047
        654429.81    4183506.98        0.00045                    654479.81
4183506.98        0.00043
        654529.81    4183506.98        0.00041                    654579.81
4183506.98        0.00039
        654629.81    4183506.98        0.00036                    654679.81
4183506.98        0.00034
        654729.81    4183506.98        0.00032                    654779.81
4183506.98        0.00031
        654829.81    4183506.98        0.00029                    654879.81
4183506.98        0.00027
        654929.81    4183506.98        0.00026                    654979.81
4183506.98        0.00024
        655029.81    4183506.98        0.00023                    655079.81
4183506.98        0.00022
        655129.81    4183506.98        0.00021                    652679.81
4183556.98        0.00053
        652729.81    4183556.98        0.00057                    652779.81
4183556.98        0.00062
        652829.81    4183556.98        0.00068                    652879.81
4183556.98        0.00074
        652929.81    4183556.98        0.00081                    652979.81
4183556.98        0.00090
        653029.81    4183556.98        0.00100                    653079.81
4183556.98        0.00112
        653129.81    4183556.98        0.00124                    653179.81
4183556.98        0.00136
        653229.81    4183556.98        0.00147                    653279.81
4183556.98        0.00154
        653329.81    4183556.98        0.00157                    653379.81
4183556.98        0.00154
        653429.81    4183556.98        0.00145                    653479.81
4183556.98        0.00134
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653529.81	4183556.98	0.00121	653579.81	4183556.98	0.00108
653629.81	4183556.98	0.00096	653679.81	4183556.98	0.00087
653729.81	4183556.98	0.00079	653779.81	4183556.98	0.00074
653829.81	4183556.98	0.00069	653879.81	4183556.98	0.00064
653929.81	4183556.98	0.00060	653979.81	4183556.98	0.00057
654029.81	4183556.98	0.00054	654079.81	4183556.98	0.00052
654129.81	4183556.98	0.00051	654179.81	4183556.98	0.00049
654229.81	4183556.98	0.00047	654279.81	4183556.98	0.00046
654329.81	4183556.98	0.00044	654379.81	4183556.98	0.00042
654429.81	4183556.98	0.00041	654479.81	4183556.98	0.00039
654529.81	4183556.98	0.00037	654579.81	4183556.98	0.00036
654629.81	4183556.98	0.00034	654679.81	4183556.98	0.00033
654729.81	4183556.98	0.00031	654779.81	4183556.98	0.00029
654829.81	4183556.98	0.00028	654879.81	4183556.98	0.00026

654929.81 4183556.98 0.00025 654979.81 4183556.98 0.00024
655029.81 4183556.98 0.00022 655079.81 4183556.98 0.00021
655129.81 4183556.98 0.00020 652679.81 4183606.98 0.00052
652729.81 4183606.98 0.00056 652779.81 4183606.98 0.00060
652829.81 4183606.98 0.00066 652879.81 4183606.98 0.00072
652929.81 4183606.98 0.00079 652979.81 4183606.98 0.00087
653029.81 4183606.98 0.00096 653079.81 4183606.98 0.00105
653129.81 4183606.98 0.00115 653179.81 4183606.98 0.00124
653229.81 4183606.98 0.00130 653279.81 4183606.98 0.00133
653329.81 4183606.98 0.00133 653379.81 4183606.98 0.00128
653429.81 4183606.98 0.00120 653479.81 4183606.98 0.00109
653529.81 4183606.98 0.00099 653579.81 4183606.98 0.00089
653629.81 4183606.98 0.00080 653679.81 4183606.98 0.00073
653729.81 4183606.98 0.00068 653779.81 4183606.98 0.00063
653829.81 4183606.98 0.00059 653879.81 4183606.98 0.00056
653929.81 4183606.98 0.00052 653979.81 4183606.98 0.00049
654029.81 4183606.98 0.00047 654079.81 4183606.98 0.00046
654129.81 4183606.98 0.00044 654179.81 4183606.98 0.00043
654229.81 4183606.98 0.00042 654279.81 4183606.98 0.00040
654329.81 4183606.98 0.00039 654379.81 4183606.98 0.00038
654429.81 4183606.98 0.00037 654479.81 4183606.98 0.00036
654529.81 4183606.98 0.00034 654579.81 4183606.98 0.00033
654629.81 4183606.98 0.00032 654679.81 4183606.98 0.00031
654729.81 4183606.98 0.00029 654779.81 4183606.98 0.00028
654829.81 4183606.98 0.00027 654879.81 4183606.98 0.00025

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         654929.81    4183606.98        0.00024                       654979.81
4183606.98        0.00023
         655029.81    4183606.98        0.00022                       655079.81
4183606.98        0.00021
         655129.81    4183606.98        0.00020                       652679.81
4183656.98        0.00051
         652729.81    4183656.98        0.00054                       652779.81
4183656.98        0.00059
         652829.81    4183656.98        0.00064                       652879.81
4183656.98        0.00069
         652929.81    4183656.98        0.00076                       652979.81
4183656.98        0.00083
         653029.81    4183656.98        0.00091                       653079.81
4183656.98        0.00099
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         653129.81    4183656.98        0.00106                       653179.81
4183656.98        0.00111
         653229.81    4183656.98        0.00115                       653279.81
4183656.98        0.00115
         653329.81    4183656.98        0.00113                       653379.81
4183656.98        0.00107
         653429.81    4183656.98        0.00099                       653479.81
4183656.98        0.00091
         653529.81    4183656.98        0.00082                       653579.81
4183656.98        0.00074
         653629.81    4183656.98        0.00068                       653679.81
4183656.98        0.00063
         653729.81    4183656.98        0.00058                       653779.81
4183656.98        0.00055
```

653829.81 4183656.98 0.00052 653879.81 4183656.98 0.00049
653929.81 4183656.98 0.00046 653979.81 4183656.98 0.00043
654029.81 4183656.98 0.00042 654079.81 4183656.98 0.00040
654129.81 4183656.98 0.00039 654179.81 4183656.98 0.00038
654229.81 4183656.98 0.00037 654279.81 4183656.98 0.00036
654329.81 4183656.98 0.00035 654379.81 4183656.98 0.00034
654429.81 4183656.98 0.00034 654479.81 4183656.98 0.00033
654529.81 4183656.98 0.00032 654579.81 4183656.98 0.00031
654629.81 4183656.98 0.00030 654679.81 4183656.98 0.00029
654729.81 4183656.98 0.00028 654779.81 4183656.98 0.00027
654829.81 4183656.98 0.00026 654879.81 4183656.98 0.00025
654929.81 4183656.98 0.00023 654979.81 4183656.98 0.00022
655029.81 4183656.98 0.00021 655079.81 4183656.98 0.00020
655129.81 4183656.98 0.00019 652679.81 4183706.98 0.00049
652729.81 4183706.98 0.00053 652779.81 4183706.98 0.00057
652829.81 4183706.98 0.00062 652879.81 4183706.98 0.00067
652929.81 4183706.98 0.00073 652979.81 4183706.98 0.00080
653029.81 4183706.98 0.00086 653079.81 4183706.98 0.00092
653129.81 4183706.98 0.00097 653179.81 4183706.98 0.00100
653229.81 4183706.98 0.00101 653279.81 4183706.98 0.00100
653329.81 4183706.98 0.00096 653379.81 4183706.98 0.00091
653429.81 4183706.98 0.00084 653479.81 4183706.98 0.00076
653529.81 4183706.98 0.00069 653579.81 4183706.98 0.00063
653629.81 4183706.98 0.00058 653679.81 4183706.98 0.00054
653729.81 4183706.98 0.00051 653779.81 4183706.98 0.00048

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         653829.81    4183706.98        0.00046                       653879.81
4183706.98        0.00043
         653929.81    4183706.98        0.00041                       653979.81
4183706.98        0.00039
         654029.81    4183706.98        0.00037                       654079.81
4183706.98        0.00036
         654129.81    4183706.98        0.00035                       654179.81
4183706.98        0.00034
         654229.81    4183706.98        0.00033                       654279.81
4183706.98        0.00032
         654329.81    4183706.98        0.00032                       654379.81
4183706.98        0.00031
         654429.81    4183706.98        0.00030                       654479.81
4183706.98        0.00030
         654529.81    4183706.98        0.00029                       654579.81
4183706.98        0.00028
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                                *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         654629.81    4183706.98        0.00028                       654679.81
4183706.98        0.00027
         654729.81    4183706.98        0.00026                       654779.81
4183706.98        0.00025
         654829.81    4183706.98        0.00024                       654879.81
4183706.98        0.00024
         654929.81    4183706.98        0.00023                       654979.81
4183706.98        0.00022
         655029.81    4183706.98        0.00021                       655079.81
4183706.98        0.00020
         655129.81    4183706.98        0.00019                       652679.81
4183756.98        0.00048
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652729.81 4183756.98 0.00052 652779.81 4183756.98 0.00056
652829.81 4183756.98 0.00060 652879.81 4183756.98 0.00065
652929.81 4183756.98 0.00070 652979.81 4183756.98 0.00076
653029.81 4183756.98 0.00080 653079.81 4183756.98 0.00085
653129.81 4183756.98 0.00088 653179.81 4183756.98 0.00089
653229.81 4183756.98 0.00089 653279.81 4183756.98 0.00087
653329.81 4183756.98 0.00083 653379.81 4183756.98 0.00077
653429.81 4183756.98 0.00071 653479.81 4183756.98 0.00065
653529.81 4183756.98 0.00059 653579.81 4183756.98 0.00054
653629.81 4183756.98 0.00051 653679.81 4183756.98 0.00048
653729.81 4183756.98 0.00045 653779.81 4183756.98 0.00043
653829.81 4183756.98 0.00041 653879.81 4183756.98 0.00039
653929.81 4183756.98 0.00036 653979.81 4183756.98 0.00035
654029.81 4183756.98 0.00033 654079.81 4183756.98 0.00032
654129.81 4183756.98 0.00031 654179.81 4183756.98 0.00030
654229.81 4183756.98 0.00030 654279.81 4183756.98 0.00029
654329.81 4183756.98 0.00029 654379.81 4183756.98 0.00028
654429.81 4183756.98 0.00028 654479.81 4183756.98 0.00027
654529.81 4183756.98 0.00027 654579.81 4183756.98 0.00026
654629.81 4183756.98 0.00026 654679.81 4183756.98 0.00025
654729.81 4183756.98 0.00024 654779.81 4183756.98 0.00024
654829.81 4183756.98 0.00023 654879.81 4183756.98 0.00022
654929.81 4183756.98 0.00022 654979.81 4183756.98 0.00021
655029.81 4183756.98 0.00020 655079.81 4183756.98 0.00019
655129.81 4183756.98 0.00019 652679.81 4183806.98 0.00047

```
         652729.81    4183806.98        0.00051                       652779.81
4183806.98        0.00054
         652829.81    4183806.98        0.00059                       652879.81
4183806.98        0.00063
         652929.81    4183806.98        0.00067                       652979.81
4183806.98        0.00071
         653029.81    4183806.98        0.00075                       653079.81
4183806.98        0.00078
         653129.81    4183806.98        0.00079                       653179.81
4183806.98        0.00080
         653229.81    4183806.98        0.00078                       653279.81
4183806.98        0.00076
         653329.81    4183806.98        0.00071                       653379.81
4183806.98        0.00066
         653429.81    4183806.98        0.00061                       653479.81
4183806.98        0.00056
         653529.81    4183806.98        0.00051                       653579.81
4183806.98        0.00048
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         653629.81    4183806.98        0.00045                       653679.81
4183806.98        0.00042
         653729.81    4183806.98        0.00041                       653779.81
4183806.98        0.00039
         653829.81    4183806.98        0.00037                       653879.81
4183806.98        0.00035
         653929.81    4183806.98        0.00033                       653979.81
4183806.98        0.00031
         654029.81    4183806.98        0.00030                       654079.81
4183806.98        0.00029
```

654129.81 4183806.98 0.00028 654179.81 4183806.98 0.00027
654229.81 4183806.98 0.00027 654279.81 4183806.98 0.00027
654329.81 4183806.98 0.00026 654379.81 4183806.98 0.00026
654429.81 4183806.98 0.00025 654479.81 4183806.98 0.00025
654529.81 4183806.98 0.00025 654579.81 4183806.98 0.00024
654629.81 4183806.98 0.00024 654679.81 4183806.98 0.00023
654729.81 4183806.98 0.00023 654779.81 4183806.98 0.00022
654829.81 4183806.98 0.00022 654879.81 4183806.98 0.00021
654929.81 4183806.98 0.00021 654979.81 4183806.98 0.00020
655029.81 4183806.98 0.00019 655079.81 4183806.98 0.00019
655129.81 4183806.98 0.00018 652679.81 4183856.98 0.00046
652729.81 4183856.98 0.00049 652779.81 4183856.98 0.00053
652829.81 4183856.98 0.00057 652879.81 4183856.98 0.00060
652929.81 4183856.98 0.00064 652979.81 4183856.98 0.00067
653029.81 4183856.98 0.00069 653079.81 4183856.98 0.00071
653129.81 4183856.98 0.00072 653179.81 4183856.98 0.00071
653229.81 4183856.98 0.00069 653279.81 4183856.98 0.00066
653329.81 4183856.98 0.00062 653379.81 4183856.98 0.00057
653429.81 4183856.98 0.00052 653479.81 4183856.98 0.00048
653529.81 4183856.98 0.00045 653579.81 4183856.98 0.00042
653629.81 4183856.98 0.00040 653679.81 4183856.98 0.00038
653729.81 4183856.98 0.00037 653779.81 4183856.98 0.00035
653829.81 4183856.98 0.00033 653879.81 4183856.98 0.00032
653929.81 4183856.98 0.00030 653979.81 4183856.98 0.00029
654029.81 4183856.98 0.00027 654079.81 4183856.98 0.00026

```
         654129.81    4183856.98        0.00026                       654179.81
4183856.98        0.00025
         654229.81    4183856.98        0.00025                       654279.81
4183856.98        0.00024
         654329.81    4183856.98        0.00024                       654379.81
4183856.98        0.00023
         654429.81    4183856.98        0.00023                       654479.81
4183856.98        0.00023
         654529.81    4183856.98        0.00023                       654579.81
4183856.98        0.00022
         654629.81    4183856.98        0.00022                       654679.81
4183856.98        0.00022
         654729.81    4183856.98        0.00021                       654779.81
4183856.98        0.00021
         654829.81    4183856.98        0.00021                       654879.81
4183856.98        0.00020
         654929.81    4183856.98        0.00020                       654979.81
4183856.98        0.00019
         655029.81    4183856.98        0.00019                       655079.81
4183856.98        0.00018
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         655129.81    4183856.98        0.00018                       652679.81
4183906.98        0.00045
         652729.81    4183906.98        0.00048                       652779.81
4183906.98        0.00051
         652829.81    4183906.98        0.00055                       652879.81
4183906.98        0.00058
         652929.81    4183906.98        0.00060                       652979.81
4183906.98        0.00062
```

653029.81 4183906.98 0.00064 653079.81 4183906.98 0.00065
653129.81 4183906.98 0.00065 653179.81 4183906.98 0.00063
653229.81 4183906.98 0.00061 653279.81 4183906.98 0.00058
653329.81 4183906.98 0.00054 653379.81 4183906.98 0.00050
653429.81 4183906.98 0.00046 653479.81 4183906.98 0.00042
653529.81 4183906.98 0.00039 653579.81 4183906.98 0.00037
653629.81 4183906.98 0.00036 653679.81 4183906.98 0.00034
653729.81 4183906.98 0.00033 653779.81 4183906.98 0.00032
653829.81 4183906.98 0.00031 653879.81 4183906.98 0.00029
653929.81 4183906.98 0.00028 653979.81 4183906.98 0.00026
654029.81 4183906.98 0.00025 654079.81 4183906.98 0.00024
654129.81 4183906.98 0.00023 654179.81 4183906.98 0.00023
654229.81 4183906.98 0.00023 654279.81 4183906.98 0.00022
654329.81 4183906.98 0.00022 654379.81 4183906.98 0.00022
654429.81 4183906.98 0.00021 654479.81 4183906.98 0.00021
654529.81 4183906.98 0.00021 654579.81 4183906.98 0.00020
654629.81 4183906.98 0.00020 654679.81 4183906.98 0.00020
654729.81 4183906.98 0.00020 654779.81 4183906.98 0.00019
654829.81 4183906.98 0.00019 654879.81 4183906.98 0.00019
654929.81 4183906.98 0.00019 654979.81 4183906.98 0.00018
655029.81 4183906.98 0.00018 655079.81 4183906.98 0.00017
655129.81 4183906.98 0.00017 652679.81 4183956.98 0.00044
652729.81 4183956.98 0.00047 652779.81 4183956.98 0.00050
652829.81 4183956.98 0.00052 652879.81 4183956.98 0.00055
652929.81 4183956.98 0.00057 652979.81 4183956.98 0.00058

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653029.81	4183956.98	0.00059	653079.81	4183956.98	0.00059
653129.81	4183956.98	0.00058	653179.81	4183956.98	0.00056
653229.81	4183956.98	0.00054	653279.81	4183956.98	0.00051
653329.81	4183956.98	0.00047	653379.81	4183956.98	0.00043
653429.81	4183956.98	0.00040	653479.81	4183956.98	0.00037
653529.81	4183956.98	0.00035	653579.81	4183956.98	0.00034
653629.81	4183956.98	0.00032	653679.81	4183956.98	0.00031
653729.81	4183956.98	0.00030	653779.81	4183956.98	0.00029
653829.81	4183956.98	0.00028	653879.81	4183956.98	0.00027
653929.81	4183956.98	0.00025	653979.81	4183956.98	0.00024
654029.81	4183956.98	0.00023	654079.81	4183956.98	0.00022
654129.81	4183956.98	0.00022	654179.81	4183956.98	0.00021
654229.81	4183956.98	0.00021	654279.81	4183956.98	0.00020
654329.81	4183956.98	0.00020	654379.81	4183956.98	0.00020

654429.81 4183956.98 0.00020 654479.81 4183956.98 0.00019
654529.81 4183956.98 0.00019 654579.81 4183956.98 0.00019
654629.81 4183956.98 0.00019 654679.81 4183956.98 0.00019
654729.81 4183956.98 0.00018 654779.81 4183956.98 0.00018
654829.81 4183956.98 0.00018 654879.81 4183956.98 0.00018
654929.81 4183956.98 0.00018 654979.81 4183956.98 0.00017
655029.81 4183956.98 0.00017 655079.81 4183956.98 0.00017
655129.81 4183956.98 0.00016 652679.81 4184006.98 0.00043
652729.81 4184006.98 0.00045 652779.81 4184006.98 0.00048
652829.81 4184006.98 0.00050 652879.81 4184006.98 0.00051
652929.81 4184006.98 0.00053 652979.81 4184006.98 0.00054
653029.81 4184006.98 0.00054 653079.81 4184006.98 0.00054
653129.81 4184006.98 0.00052 653179.81 4184006.98 0.00051
653229.81 4184006.98 0.00048 653279.81 4184006.98 0.00045
653329.81 4184006.98 0.00042 653379.81 4184006.98 0.00038
653429.81 4184006.98 0.00036 653479.81 4184006.98 0.00033
653529.81 4184006.98 0.00032 653579.81 4184006.98 0.00030
653629.81 4184006.98 0.00030 653679.81 4184006.98 0.00029
653729.81 4184006.98 0.00028 653779.81 4184006.98 0.00027
653829.81 4184006.98 0.00026 653879.81 4184006.98 0.00025
653929.81 4184006.98 0.00024 653979.81 4184006.98 0.00022
654029.81 4184006.98 0.00022 654079.81 4184006.98 0.00021
654129.81 4184006.98 0.00020 654179.81 4184006.98 0.00020
654229.81 4184006.98 0.00019 654279.81 4184006.98 0.00019
654329.81 4184006.98 0.00019 654379.81 4184006.98 0.00018

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         654429.81    4184006.98        0.00018                       654479.81
4184006.98        0.00018
         654529.81    4184006.98        0.00018                       654579.81
4184006.98        0.00018
         654629.81    4184006.98        0.00017                       654679.81
4184006.98        0.00017
         654729.81    4184006.98        0.00017                       654779.81
4184006.98        0.00017
         654829.81    4184006.98        0.00017                       654879.81
4184006.98        0.00017
         654929.81    4184006.98        0.00016                       654979.81
4184006.98        0.00016
         655029.81    4184006.98        0.00016                       655079.81
4184006.98        0.00016
         655129.81    4184006.98        0.00016

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        652679.81   4181556.98        0.12874  (17022208)               652729.81
4181556.98        0.13347  (17022208)
        652779.81   4181556.98        0.14335  (17121508)               652829.81
4181556.98        0.15173  (17121508)
        652879.81   4181556.98        0.15671  (17121508)               652929.81
4181556.98        0.15765  (17121508)
        652979.81   4181556.98        0.15413  (17121508)               653029.81
4181556.98        0.14609  (17121508)
        653079.81   4181556.98        0.15808  (17020109)               653129.81
4181556.98        0.18055  (17020109)
        653179.81   4181556.98        0.19866  (17020109)               653229.81
4181556.98        0.20996  (17020109)
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653279.81 4181556.98 0.21223 (17020109) 653329.81 4181556.98 0.20421 (17020109)
653379.81 4181556.98 0.18601 (17020109) 653429.81 4181556.98 0.20947 (17011609)
653479.81 4181556.98 0.22798 (17011609) 653529.81 4181556.98 0.23677 (17011609)
653579.81 4181556.98 0.23380 (17011609) 653629.81 4181556.98 0.21867 (17011609)
653679.81 4181556.98 0.19291 (17011609) 653729.81 4181556.98 0.16900 (17011209)
653779.81 4181556.98 0.17489 (17011209) 653829.81 4181556.98 0.16984 (17011209)
653879.81 4181556.98 0.15414 (17011209) 653929.81 4181556.98 0.13027 (17011209)
653979.81 4181556.98 0.10222 (17011209) 654029.81 4181556.98 0.08661 (17011708)
654079.81 4181556.98 0.11181 (17011708) 654129.81 4181556.98 0.13636 (17011708)
654179.81 4181556.98 0.15704 (17011708) 654229.81 4181556.98 0.17081 (17011708)
654279.81 4181556.98 0.17556 (17011708) 654329.81 4181556.98 0.17061 (17011708)
654379.81 4181556.98 0.15690 (17011708) 654429.81 4181556.98 0.13678 (17011708)
654479.81 4181556.98 0.15239 (17011208) 654529.81 4181556.98 0.16743 (17011208)
654579.81 4181556.98 0.17712 (17011208) 654629.81 4181556.98 0.18077 (17011208)
654679.81 4181556.98 0.17833 (17011208) 654729.81 4181556.98 0.17036 (17011208)
654779.81 4181556.98 0.15788 (17011208) 654829.81 4181556.98 0.15173 (17012408)
654879.81 4181556.98 0.14833 (17012408) 654929.81 4181556.98 0.14062 (17012408)
654979.81 4181556.98 0.12958 (17012408) 655029.81 4181556.98 0.11628 (17012408)
655079.81 4181556.98 0.11260 (17011309) 655129.81 4181556.98 0.11223 (17030208)
652679.81 4181606.98 0.12868 (17022208) 652729.81 4181606.98 0.13576 (17022208)
652779.81 4181606.98 0.14203 (17121508) 652829.81 4181606.98 0.15285 (17121508)
652879.81 4181606.98 0.16056 (17121508) 652929.81 4181606.98 0.16434 (17121508)
652979.81 4181606.98 0.16355 (17121508) 653029.81 4181606.98 0.15785 (17121508)
653079.81 4181606.98 0.15392 (17020109) 653129.81 4181606.98 0.17866 (17020109)
653179.81 4181606.98 0.19990 (17020109) 653229.81 4181606.98 0.21495 (17020109)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654179.81	4181606.98	0.17057	(17011708)	654229.81	4181606.98	0.18197	(17011708)
654279.81	4181606.98	0.18300	(17011708)	654329.81	4181606.98	0.17362	(17011708)
654379.81	4181606.98	0.15558	(17011708)	654429.81	4181606.98	0.15181	(17011208)
654479.81	4181606.98	0.17001	(17011208)	654529.81	4181606.98	0.18280	(17011208)
654579.81	4181606.98	0.18916	(17011208)	654629.81	4181606.98	0.18874	(17011208)

654679.81 4181606.98 0.18191 (17011208) 654729.81 4181606.98 0.16971 (17011208)
654779.81 4181606.98 0.15945 (17012408) 654829.81 4181606.98 0.15672 (17012408)
654879.81 4181606.98 0.14915 (17012408) 654929.81 4181606.98 0.13769 (17012408)
654979.81 4181606.98 0.12361 (17012408) 655029.81 4181606.98 0.11829 (17011309)
655079.81 4181606.98 0.11861 (17030208) 655129.81 4181606.98 0.12659 (17030208)
652679.81 4181656.98 0.13006 (17121108) 652729.81 4181656.98 0.13635 (17022208)
652779.81 4181656.98 0.14312 (17022208) 652829.81 4181656.98 0.15232 (17121508)
652879.81 4181656.98 0.16280 (17121508) 652929.81 4181656.98 0.16960 (17121508)
652979.81 4181656.98 0.17187 (17121508) 653029.81 4181656.98 0.16902 (17121508)
653079.81 4181656.98 0.16082 (17121508) 653129.81 4181656.98 0.17567 (17020109)
653179.81 4181656.98 0.19990 (17020109) 653229.81 4181656.98 0.21873 (17020109)
653279.81 4181656.98 0.22919 (17020109) 653329.81 4181656.98 0.22880 (17020109)
653379.81 4181656.98 0.21632 (17020109) 653429.81 4181656.98 0.21750 (17011609)
653479.81 4181656.98 0.24168 (17011609) 653529.81 4181656.98 0.25586 (17011609)
653579.81 4181656.98 0.25697 (17011609) 653629.81 4181656.98 0.24374 (17011609)
653679.81 4181656.98 0.21722 (17011609) 653729.81 4181656.98 0.18402 (17011209)
653779.81 4181656.98 0.19054 (17011209) 653829.81 4181656.98 0.18418 (17011209)
653879.81 4181656.98 0.16538 (17011209) 653929.81 4181656.98 0.13731 (17011209)
653979.81 4181656.98 0.10498 (17011209) 654029.81 4181656.98 0.11144 (17011708)
654079.81 4181656.98 0.14023 (17011708) 654129.81 4181656.98 0.16589 (17011708)
654179.81 4181656.98 0.18441 (17011708) 654229.81 4181656.98 0.19263 (17011708)
654279.81 4181656.98 0.18920 (17011708) 654329.81 4181656.98 0.17490 (17011708)
654379.81 4181656.98 0.15239 (17011708) 654429.81 4181656.98 0.17146 (17011208)
654479.81 4181656.98 0.18777 (17011208) 654529.81 4181656.98 0.19728 (17011208)
654579.81 4181656.98 0.19935 (17011208) 654629.81 4181656.98 0.19415 (17011208)

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        654679.81   4181656.98        0.18262  (17011208)               654729.81
4181656.98        0.16759  (17012408)
        654779.81   4181656.98        0.16580  (17012408)               654829.81
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        654879.81   4181656.98        0.14659  (17012408)               654929.81
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        654979.81   4181656.98        0.12449  (17011309)               655029.81
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        652779.81   4181706.98        0.14445  (17022208)               652829.81
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        652979.81   4181706.98        0.17879  (17121508)               653029.81
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        653079.81   4181706.98        0.17392  (17121508)               653129.81
4181706.98        0.17161  (17020109)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                   PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        653179.81   4181706.98        0.19863  (17020109)               653229.81
4181706.98        0.22120  (17020109)
        653279.81   4181706.98        0.23610  (17020109)               653329.81
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        653379.81   4181706.98        0.23168  (17020109)               653429.81
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        653479.81   4181706.98        0.24848  (17011609)               653529.81
4181706.98        0.26582  (17011609)
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4181756.98 0.17812 (17121508)
653179.81 4181756.98 0.19607 (17020109) 653229.81
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653479.81 4181756.98 0.25518 (17011609) 653529.81
4181756.98 0.27602 (17011609)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653579.81	4181756.98	0.28270	(17011609)	653629.81	4181756.98	0.27262	(17011609)
653679.81	4181756.98	0.24602	(17011609)	653729.81	4181756.98	0.20647	(17011609)
653779.81	4181756.98	0.20875	(17011209)	653829.81	4181756.98	0.20079	(17011209)
653879.81	4181756.98	0.17813	(17011209)	653929.81	4181756.98	0.14487	(17011209)
653979.81	4181756.98	0.10958	(17011708)	654029.81	4181756.98	0.14291	(17011708)
654079.81	4181756.98	0.17440	(17011708)	654129.81	4181756.98	0.19893	(17011708)
654179.81	4181756.98	0.21196	(17011708)	654229.81	4181756.98	0.21098	(17011708)
654279.81	4181756.98	0.19637	(17011708)	654329.81	4181756.98	0.17112	(17011708)
654379.81	4181756.98	0.19442	(17011208)	654429.81	4181756.98	0.21202	(17011208)
654479.81	4181756.98	0.22093	(17011208)	654529.81	4181756.98	0.22059	(17011208)
654579.81	4181756.98	0.21153	(17011208)	654629.81	4181756.98	0.19535	(17011208)
654679.81	4181756.98	0.18605	(17012408)	654729.81	4181756.98	0.17964	(17012408)
654779.81	4181756.98	0.16717	(17012408)	654829.81	4181756.98	0.15044	(17012408)
654879.81	4181756.98	0.13873	(17011309)	654929.81	4181756.98	0.14170	(17030208)

654979.81 4181756.98 0.15102 (17030208) 655029.81 4181756.98 0.15675 (17030208)
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652879.81 4181806.98 0.16251 (17022208) 652929.81 4181806.98 0.17460 (17121508)
652979.81 4181806.98 0.18721 (17121508) 653029.81 4181806.98 0.19517 (17121508)
653079.81 4181806.98 0.19731 (17121508) 653129.81 4181806.98 0.19279 (17121508)
653179.81 4181806.98 0.19226 (17020109) 653229.81 4181806.98 0.22183 (17020109)
653279.81 4181806.98 0.24579 (17020109) 653329.81 4181806.98 0.26023 (17020109)
653379.81 4181806.98 0.26156 (17020109) 653429.81 4181806.98 0.24761 (17020109)
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653579.81 4181806.98 0.29654 (17011609) 653629.81 4181806.98 0.28866 (17011609)
653679.81 4181806.98 0.26243 (17011609) 653729.81 4181806.98 0.22121 (17011609)
653779.81 4181806.98 0.21901 (17011209) 653829.81 4181806.98 0.21012 (17011209)
653879.81 4181806.98 0.18518 (17011209) 653929.81 4181806.98 0.14886 (17011209)
653979.81 4181806.98 0.12562 (17011708) 654029.81 4181806.98 0.16151 (17011708)
654079.81 4181806.98 0.19367 (17011708) 654129.81 4181806.98 0.21632 (17011708)
654179.81 4181806.98 0.22493 (17011708) 654229.81 4181806.98 0.21779 (17011708)
654279.81 4181806.98 0.19654 (17011708) 654329.81 4181806.98 0.19544 (17011208)
654379.81 4181806.98 0.21798 (17011208) 654429.81 4181806.98 0.23142 (17011208)
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654579.81 4181806.98 0.21205 (17011208) 654629.81 4181806.98 0.19735 (17012408)
654679.81 4181806.98 0.19177 (17012408) 654729.81 4181806.98 0.17914 (17012408)
654779.81 4181806.98 0.16140 (17012408) 654829.81 4181806.98 0.14695 (17011309)
654879.81 4181806.98 0.15104 (17030208) 654929.81 4181806.98 0.16087 (17030208)

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        654979.81   4181806.98        0.16661  (17030208)                655029.81
4181806.98        0.16821  (17030208)
        655079.81   4181806.98        0.16596  (17030208)                655129.81
4181806.98        0.16033  (17122708)
        652679.81   4181856.98        0.17238  (17121108)                652729.81
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4181856.98        0.16432  (17121108)
        652879.81   4181856.98        0.16359  (17022208)                652929.81
4181856.98        0.17249  (17022208)
        652979.81   4181856.98        0.18823  (17121508)                653029.81
4181856.98        0.20020  (17121508)
        653079.81   4181856.98        0.20666  (17121508)                653129.81
4181856.98        0.20639  (17121508)
        653179.81   4181856.98        0.19864  (17121508)                653229.81
4181856.98        0.21991  (17020109)
        653279.81   4181856.98        0.24827  (17020109)                653329.81
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        653379.81   4181856.98        0.27540  (17020109)                653429.81
4181856.98        0.26664  (17020109)
        653479.81   4181856.98        0.26811  (17011609)                653529.81
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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4181856.98        0.22026  (17011209)
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654079.81 4181856.98 0.21428 (17011708) 654129.81 4181856.98 0.23386 (17011708)
654179.81 4181856.98 0.23671 (17011708) 654229.81 4181856.98 0.22230 (17011708)
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653379.81 4181906.98 0.28806 (17020109) 653429.81 4181906.98 0.28546 (17020109)
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        654179.81   4181906.98        0.24666  (17011708)               654229.81
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        654279.81   4181906.98        0.22490  (17011208)               654329.81
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        654379.81   4181906.98        0.26316  (17011208)               654429.81
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4181906.98        0.22838  (17011208)
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        654679.81   4181906.98        0.18735  (17012408)               654729.81
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        654779.81   4181906.98        0.17305  (17030208)               654829.81
4181906.98        0.18393  (17030208)
        654879.81   4181906.98        0.18952  (17030208)               654929.81
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        654979.81   4181906.98        0.18539  (17030208)               655029.81
4181906.98        0.17853  (17122708)
        655079.81   4181906.98        0.17012  (17122708)               655129.81
4181906.98        0.15897  (17122708)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        652679.81   4181956.98        0.17871  (17121108)               652729.81
4181956.98        0.18704  (17121108)
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653179.81 4181956.98 0.23014 (17121508) 653229.81 4181956.98 0.22325 (17121508)
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654279.81 4181956.98 0.25716 (17011208) 654329.81 4181956.98 0.27706 (17011208)
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4182006.98        0.20342  (17121108)
        652879.81   4182006.98        0.20465  (17121108)               652929.81
4182006.98        0.20101  (17121108)
        652979.81   4182006.98        0.19220  (17121108)               653029.81
4182006.98        0.20026  (17121508)
        653079.81   4182006.98        0.22025  (17121508)               653129.81
4182006.98        0.23519  (17121508)
        653179.81   4182006.98        0.24300  (17121508)               653229.81
4182006.98        0.24182  (17121508)
        653279.81   4182006.98        0.24533  (17020109)               653329.81
4182006.98        0.28128  (17020109)
        653379.81   4182006.98        0.30833  (17020109)               653429.81
4182006.98        0.32051  (17020109)
        653479.81   4182006.98        0.31247  (17020109)               653529.81
4182006.98        0.32907  (17011609)
        653579.81   4182006.98        0.35833  (17011609)               653629.81
4182006.98        0.36537  (17011609)
        653679.81   4182006.98        0.34519  (17011609)               653729.81
4182006.98        0.29866  (17011609)
        653779.81   4182006.98        0.27047  (17011209)               653829.81
4182006.98        0.25673  (17011209)
        653879.81   4182006.98        0.21920  (17011209)               653929.81
4182006.98        0.16626  (17011209)
        653979.81   4182006.98        0.21537  (17011708)               654029.81
4182006.98        0.25717  (17011708)
        654079.81   4182006.98        0.28147  (17011708)               654129.81
4182006.98        0.28181  (17011708)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                   PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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654179.81 4182006.98 0.25805 (17011708) 654229.81 4182006.98 0.26187 (17011208)
654279.81 4182006.98 0.28994 (17011208) 654329.81 4182006.98 0.30179 (17011208)
654379.81 4182006.98 0.29654 (17011208) 654429.81 4182006.98 0.27615 (17011208)
654479.81 4182006.98 0.25360 (17012408) 654529.81 4182006.98 0.24226 (17012408)
654579.81 4182006.98 0.22028 (17012408) 654629.81 4182006.98 0.19156 (17012408)
654679.81 4182006.98 0.20075 (17030208) 654729.81 4182006.98 0.21281 (17030208)
654779.81 4182006.98 0.21781 (17030208) 654829.81 4182006.98 0.21604 (17030208)
654879.81 4182006.98 0.20831 (17030208) 654929.81 4182006.98 0.19948 (17122708)
654979.81 4182006.98 0.18699 (17122708) 655029.81 4182006.98 0.17166 (17122708)
655079.81 4182006.98 0.15461 (17122708) 655129.81 4182006.98 0.13886 (17022308)
652679.81 4182056.98 0.17149 (17121108) 652729.81 4182056.98 0.18673 (17121108)
652779.81 4182056.98 0.19981 (17121108) 652829.81 4182056.98 0.20987 (17121108)
652879.81 4182056.98 0.21598 (17121108) 652929.81 4182056.98 0.21737 (17121108)
652979.81 4182056.98 0.21334 (17121108) 653029.81 4182056.98 0.20351 (17121108)
653079.81 4182056.98 0.21900 (17121508) 653129.81 4182056.98 0.23912 (17121508)
653179.81 4182056.98 0.25303 (17121508) 653229.81 4182056.98 0.25835 (17121508)
653279.81 4182056.98 0.25314 (17121508) 653329.81 4182056.98 0.28162 (17020109)
653379.81 4182056.98 0.31534 (17020109) 653429.81 4182056.98 0.33575 (17020109)
653479.81 4182056.98 0.33619 (17020109) 653529.81 4182056.98 0.33968 (17011609)
653579.81 4182056.98 0.37525 (17011609) 653629.81 4182056.98 0.38803 (17011609)
653679.81 4182056.98 0.37119 (17011609) 653729.81 4182056.98 0.32415 (17011609)
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653879.81 4182056.98 0.22959 (17011209) 653929.81 4182056.98 0.19269 (17011708)
653979.81 4182056.98 0.24554 (17011708) 654029.81 4182056.98 0.28619 (17011708)
654079.81 4182056.98 0.30395 (17011708) 654129.81 4182056.98 0.29355 (17011708)

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        654179.81   4182056.98        0.26333  (17011208)                654229.81
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        654279.81   4182056.98        0.32150  (17011208)                654329.81
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        654379.81   4182056.98        0.30431  (17011208)                654429.81
4182056.98        0.27317  (17012408)
        654479.81   4182056.98        0.26315  (17012408)                654529.81
4182056.98        0.24020  (17012408)
        654579.81   4182056.98        0.20887  (17012408)                654629.81
4182056.98        0.21742  (17030208)
        654679.81   4182056.98        0.23007  (17030208)                654729.81
4182056.98        0.23453  (17030208)
        654779.81   4182056.98        0.23125  (17030208)                654829.81
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        654879.81   4182056.98        0.21108  (17122708)                654929.81
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        654979.81   4182056.98        0.17809  (17122708)                655029.81
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        655079.81   4182056.98        0.15097  (17022308)                655129.81
4182056.98        0.15133  (17022308)
        652679.81   4182106.98        0.16292  (17121108)                652729.81
4182106.98        0.18090  (17121108)
        652779.81   4182106.98        0.19752  (17121108)                652829.81
4182106.98        0.21192  (17121108)
        652879.81   4182106.98        0.22304  (17121108)                652929.81
4182106.98        0.22992  (17121108)
        652979.81   4182106.98        0.23155  (17121108)                653029.81
4182106.98        0.22711  (17121108)
        653079.81   4182106.98        0.21723  (17022208)                653129.81
4182106.98        0.23966  (17121508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        653079.81   4182156.98        0.24261  (17121108)               653129.81
4182156.98        0.23673  (17121508)
        653179.81   4182156.98        0.26249  (17121508)               653229.81
4182156.98        0.28204  (17121508)
        653279.81   4182156.98        0.29217  (17121508)               653329.81
4182156.98        0.28995  (17121508)
        653379.81   4182156.98        0.32230  (17020109)               653429.81
4182156.98        0.35955  (17020109)
        653479.81   4182156.98        0.37993  (17020109)               653529.81
4182156.98        0.37477  (17020109)
        653579.81   4182156.98        0.41058  (17011609)               653629.81
4182156.98        0.43794  (17011609)
        653679.81   4182156.98        0.43129  (17011609)               653729.81
4182156.98        0.38546  (17011609)
        653779.81   4182156.98        0.32492  (17011209)               653829.81
4182156.98        0.30613  (17011209)
        653879.81   4182156.98        0.25352  (17011209)               653929.81
4182156.98        0.25970  (17011708)
        653979.81   4182156.98        0.31641  (17011708)               654029.81
4182156.98        0.34790  (17011708)
        654079.81   4182156.98        0.34349  (17011708)               654129.81
4182156.98        0.31336  (17011208)
        654179.81   4182156.98        0.35777  (17011208)               654229.81
4182156.98        0.37778  (17011208)
        654279.81   4182156.98        0.37071  (17011208)               654329.81
4182156.98        0.34029  (17011208)
        654379.81   4182156.98        0.31356  (17012408)               654429.81
4182156.98        0.28937  (17012408)
        654479.81   4182156.98        0.25186  (17012408)               654529.81
4182156.98        0.25842  (17030208)
        654579.81   4182156.98        0.27222  (17030208)               654629.81
4182156.98        0.27471  (17030208)
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   PAREA1   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                            ** CONC OF PM_10   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654679.81	4182156.98	0.26692	(17030208)	654729.81	4182156.98	0.25385	(17122708)
654779.81	4182156.98	0.23669	(17122708)	654829.81	4182156.98	0.21495	(17122708)
654879.81	4182156.98	0.19063	(17122708)	654929.81	4182156.98	0.17765	(17022308)
654979.81	4182156.98	0.17724	(17022308)	655029.81	4182156.98	0.17337	(17022308)
655079.81	4182156.98	0.16666	(17022308)	655129.81	4182156.98	0.15777	(17022308)
652679.81	4182206.98	0.18776	(17020108)	652729.81	4182206.98	0.18811	(17020108)
652779.81	4182206.98	0.18533	(17020108)	652829.81	4182206.98	0.20236	(17121108)
652879.81	4182206.98	0.22248	(17121108)	652929.81	4182206.98	0.24018	(17121108)
652979.81	4182206.98	0.25417	(17121108)	653029.81	4182206.98	0.26308	(17121108)
653079.81	4182206.98	0.26550	(17121108)	653129.81	4182206.98	0.26023	(17121108)
653179.81	4182206.98	0.26140	(17121508)	653229.81	4182206.98	0.28785	(17121508)
653279.81	4182206.98	0.30648	(17121508)	653329.81	4182206.98	0.31354	(17121508)
653379.81	4182206.98	0.32232	(17020109)	653429.81	4182206.98	0.36760	(17020109)
653479.81	4182206.98	0.39873	(17020109)	653529.81	4182206.98	0.40562	(17020109)
653579.81	4182206.98	0.42887	(17011609)	653629.81	4182206.98	0.46527	(17011609)
653679.81	4182206.98	0.46596	(17011609)	653729.81	4182206.98	0.42243	(17011609)
653779.81	4182206.98	0.34755	(17011209)	653829.81	4182206.98	0.32678	(17011209)
653879.81	4182206.98	0.26748	(17011209)	653929.81	4182206.98	0.30107	(17011708)
653979.81	4182206.98	0.35702	(17011708)	654029.81	4182206.98	0.37879	(17011708)
654079.81	4182206.98	0.35759	(17011708)	654129.81	4182206.98	0.37170	(17011208)
654179.81	4182206.98	0.40619	(17011208)	654229.81	4182206.98	0.40914	(17011208)
654279.81	4182206.98	0.38202	(17011208)	654329.81	4182206.98	0.34409	(17012408)
654379.81	4182206.98	0.31995	(17012408)	654429.81	4182206.98	0.27885	(17012408)

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        654479.81   4182206.98        0.28392  (17030208)               654529.81
4182206.98        0.29816  (17030208)
        654579.81   4182206.98        0.29897  (17030208)               654629.81
4182206.98        0.28790  (17030208)
        654679.81   4182206.98        0.27220  (17122708)               654729.81
4182206.98        0.25075  (17122708)
        654779.81   4182206.98        0.22466  (17122708)               654829.81
4182206.98        0.19650  (17122708)
        654879.81   4182206.98        0.19413  (17022308)               654929.81
4182206.98        0.19102  (17022308)
        654979.81   4182206.98        0.18425  (17022308)               655029.81
4182206.98        0.17465  (17022308)
        655079.81   4182206.98        0.16305  (17022308)               655129.81
4182206.98        0.15017  (17022308)
        652679.81   4182256.98        0.19608  (17020108)               652729.81
4182256.98        0.20113  (17020108)
        652779.81   4182256.98        0.20325  (17020108)               652829.81
4182256.98        0.20206  (17020108)
        652879.81   4182256.98        0.21478  (17121108)               652929.81
4182256.98        0.23707  (17121108)
        652979.81   4182256.98        0.25685  (17121108)               653029.81
4182256.98        0.27269  (17121108)
        653079.81   4182256.98        0.28299  (17121108)               653129.81
4182256.98        0.28608  (17121108)
        653179.81   4182256.98        0.28040  (17121108)               653229.81
4182256.98        0.28915  (17121508)
        653279.81   4182256.98        0.31609  (17121508)               653329.81
4182256.98        0.33321  (17121508)
        653379.81   4182256.98        0.33619  (17121508)               653429.81
4182256.98        0.37296  (17020109)
        653479.81   4182256.98        0.41481  (17020109)               653529.81
4182256.98        0.43499  (17020109)
        653579.81   4182256.98        0.44755  (17011609)               653629.81
4182256.98        0.49422  (17011609)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653679.81	4182256.98	0.50408	(17011609)	653729.81	4182256.98	0.46461	(17011609)
653779.81	4182256.98	0.37676	(17011609)	653829.81	4182256.98	0.35032	(17011209)
653879.81	4182256.98	0.28311	(17011209)	653929.81	4182256.98	0.34847	(17011708)
653979.81	4182256.98	0.40053	(17011708)	654029.81	4182256.98	0.40774	(17011708)
654079.81	4182256.98	0.38028	(17011208)	654129.81	4182256.98	0.43334	(17011208)
654179.81	4182256.98	0.45048	(17011208)	654229.81	4182256.98	0.43010	(17011208)
654279.81	4182256.98	0.38012	(17011208)	654329.81	4182256.98	0.35574	(17012408)
654379.81	4182256.98	0.31071	(17012408)	654429.81	4182256.98	0.31383	(17030208)
654479.81	4182256.98	0.32836	(17030208)	654529.81	4182256.98	0.32681	(17030208)
654579.81	4182256.98	0.31143	(17030208)	654629.81	4182256.98	0.29233	(17122708)
654679.81	4182256.98	0.26553	(17122708)	654729.81	4182256.98	0.23438	(17122708)
654779.81	4182256.98	0.21341	(17022308)	654829.81	4182256.98	0.21148	(17022308)
654879.81	4182256.98	0.20486	(17022308)	654929.81	4182256.98	0.19455	(17022308)
654979.81	4182256.98	0.18163	(17022308)	655029.81	4182256.98	0.16700	(17022308)
655079.81	4182256.98	0.15155	(17022308)	655129.81	4182256.98	0.13698	(17122508)
652679.81	4182306.98	0.19821	(17020108)	652729.81	4182306.98	0.20788	(17020108)
652779.81	4182306.98	0.21518	(17020108)	652829.81	4182306.98	0.21956	(17020108)
652879.81	4182306.98	0.22045	(17020108)	652929.81	4182306.98	0.22858	(17121108)
652979.81	4182306.98	0.25332	(17121108)	653029.81	4182306.98	0.27555	(17121108)
653079.81	4182306.98	0.29363	(17121108)	653129.81	4182306.98	0.30568	(17121108)
653179.81	4182306.98	0.30966	(17121108)	653229.81	4182306.98	0.30363	(17121108)
653279.81	4182306.98	0.32040	(17121508)	653329.81	4182306.98	0.34787	(17121508)

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        653379.81   4182306.98        0.36281  (17121508)               653429.81
4182306.98        0.37572  (17020109)
        653479.81   4182306.98        0.42781  (17020109)               653529.81
4182306.98        0.46199  (17020109)
        653579.81   4182306.98        0.46667  (17011609)               653629.81
4182306.98        0.52482  (17011609)
        653679.81   4182306.98        0.54598  (17011609)               653729.81
4182306.98        0.51289  (17011609)
        653779.81   4182306.98        0.42160  (17011609)               653829.81
4182306.98        0.37734  (17011209)
        653879.81   4182306.98        0.32130  (17011708)               653929.81
4182306.98        0.40236  (17011708)
        653979.81   4182306.98        0.44604  (17011708)               654029.81
4182306.98        0.43256  (17011708)
        654079.81   4182306.98        0.45684  (17011208)               654129.81
4182306.98        0.49408  (17011208)
        654179.81   4182306.98        0.48501  (17011208)               654229.81
4182306.98        0.43600  (17011208)
        654279.81   4182306.98        0.39800  (17012408)               654329.81
4182306.98        0.34875  (17012408)
        654379.81   4182306.98        0.34934  (17030208)               654429.81
4182306.98        0.36385  (17030208)
        654479.81   4182306.98        0.35892  (17030208)               654529.81
4182306.98        0.33944  (17122708)
        654579.81   4182306.98        0.31427  (17122708)               654629.81
4182306.98        0.28099  (17122708)
        654679.81   4182306.98        0.24386  (17122708)               654729.81
4182306.98        0.23536  (17022308)
        654779.81   4182306.98        0.22929  (17022308)               654829.81
4182306.98        0.21833  (17022308)
        654879.81   4182306.98        0.20383  (17022308)               654929.81
4182306.98        0.18709  (17022308)
        654979.81   4182306.98        0.16926  (17022308)               655029.81
4182306.98        0.15308  (17122508)
        655079.81   4182306.98        0.15509  (17122508)               655129.81
4182306.98        0.15564  (17122508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652679.81	4182356.98	0.20463	(17120608)	652729.81	4182356.98	0.20772	(17020108)
652779.81	4182356.98	0.21996	(17020108)	652829.81	4182356.98	0.22993	(17020108)
652879.81	4182356.98	0.23703	(17020108)	652929.81	4182356.98	0.24049	(17020108)
652979.81	4182356.98	0.24389	(17121108)	653029.81	4182356.98	0.27147	(17121108)
653079.81	4182356.98	0.29658	(17121108)	653129.81	4182356.98	0.31738	(17121108)
653179.81	4182356.98	0.33167	(17121108)	653229.81	4182356.98	0.33694	(17121108)
653279.81	4182356.98	0.33072	(17121108)	653329.81	4182356.98	0.35601	(17121508)
653379.81	4182356.98	0.38322	(17121508)	653429.81	4182356.98	0.39495	(17121508)
653479.81	4182356.98	0.43767	(17020109)	653529.81	4182356.98	0.48597	(17020109)
653579.81	4182356.98	0.50605	(17020109)	653629.81	4182356.98	0.55721	(17011609)
653679.81	4182356.98	0.59201	(17011609)	653729.81	4182356.98	0.56831	(17011609)
653779.81	4182356.98	0.47520	(17011609)	653829.81	4182356.98	0.40880	(17011209)
653879.81	4182356.98	0.38097	(17011708)	653929.81	4182356.98	0.46300	(17011708)
653979.81	4182356.98	0.49194	(17011708)	654029.81	4182356.98	0.47335	(17011208)
654079.81	4182356.98	0.53794	(17011208)	654129.81	4182356.98	0.54734	(17011208)
654179.81	4182356.98	0.50316	(17011208)	654229.81	4182356.98	0.44843	(17012408)
654279.81	4182356.98	0.39475	(17012408)	654329.81	4182356.98	0.39207	(17030208)
654379.81	4182356.98	0.40598	(17030208)	654429.81	4182356.98	0.39620	(17030208)
654479.81	4182356.98	0.37134	(17122708)	654529.81	4182356.98	0.33816	(17122708)
654579.81	4182356.98	0.29688	(17122708)	654629.81	4182356.98	0.26340	(17022308)
654679.81	4182356.98	0.25851	(17022308)	654729.81	4182356.98	0.24704	(17022308)

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        654779.81   4182356.98        0.23079  (17022308)               654829.81
4182356.98        0.21146  (17022308)
        654879.81   4182356.98        0.19057  (17022308)               654929.81
4182356.98        0.17248  (17122508)
        654979.81   4182356.98        0.17420  (17122508)               655029.81
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        655079.81   4182356.98        0.17254  (17122508)               655129.81
4182356.98        0.16964  (17122508)
        652679.81   4182406.98        0.22117  (17120608)               652729.81
4182406.98        0.22521  (17120608)
        652779.81   4182406.98        0.22737  (17120608)               652829.81
4182406.98        0.23219  (17020108)
        652879.81   4182406.98        0.24483  (17020108)               652929.81
4182406.98        0.25512  (17020108)
        652979.81   4182406.98        0.26191  (17020108)               653029.81
4182406.98        0.26415  (17020108)
        653079.81   4182406.98        0.29188  (17121108)               653129.81
4182406.98        0.32046  (17121108)
        653179.81   4182406.98        0.34467  (17121108)               653229.81
4182406.98        0.36193  (17121108)
        653279.81   4182406.98        0.36917  (17121108)               653329.81
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        653379.81   4182406.98        0.39744  (17121508)               653429.81
4182406.98        0.42447  (17121508)
        653479.81   4182406.98        0.44492  (17020109)               653529.81
4182406.98        0.50666  (17020109)
        653579.81   4182406.98        0.54546  (17020109)               653629.81
4182406.98        0.59159  (17011609)
        653679.81   4182406.98        0.64256  (17011609)               653729.81
4182406.98        0.63209  (17011609)
        653779.81   4182406.98        0.53995  (17011609)               653829.81
4182406.98        0.44593  (17011209)
        653879.81   4182406.98        0.45187  (17011708)               653929.81
4182406.98        0.53030  (17011708)
        653979.81   4182406.98        0.53561  (17011708)               654029.81
4182406.98        0.57840  (17011208)
        654079.81   4182406.98        0.61639  (17011208)               654129.81
4182406.98        0.58389  (17011208)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                        ***        11:24:15

                                   PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654179.81	4182406.98	0.50922	(17012408)	654229.81	4182406.98	0.45120	(17012408)
654279.81	4182406.98	0.44421	(17030208)	654329.81	4182406.98	0.45666	(17030208)
654379.81	4182406.98	0.43988	(17030208)	654429.81	4182406.98	0.40754	(17122708)
654479.81	4182406.98	0.36396	(17122708)	654529.81	4182406.98	0.31285	(17122708)
654579.81	4182406.98	0.29383	(17022308)	654629.81	4182406.98	0.28220	(17022308)
654679.81	4182406.98	0.26397	(17022308)	654729.81	4182406.98	0.24144	(17022308)
654779.81	4182406.98	0.21666	(17022308)	654829.81	4182406.98	0.19621	(17122508)
654879.81	4182406.98	0.19739	(17122508)	654929.81	4182406.98	0.19640	(17122508)
654979.81	4182406.98	0.19355	(17122508)	655029.81	4182406.98	0.18919	(17122508)
655079.81	4182406.98	0.18360	(17122508)	655129.81	4182406.98	0.17702	(17122508)
652679.81	4182456.98	0.23183	(17120608)	652729.81	4182456.98	0.24022	(17120608)
652779.81	4182456.98	0.24708	(17120608)	652829.81	4182456.98	0.25207	(17120608)
652879.81	4182456.98	0.25475	(17120608)	652929.81	4182456.98	0.26047	(17020108)
652979.81	4182456.98	0.27467	(17020108)	653029.81	4182456.98	0.28548	(17020108)
653079.81	4182456.98	0.29144	(17020108)	653129.81	4182456.98	0.31514	(17121108)
653179.81	4182456.98	0.34798	(17121108)	653229.81	4182456.98	0.37658	(17121108)
653279.81	4182456.98	0.39787	(17121108)	653329.81	4182456.98	0.40795	(17121108)
653379.81	4182456.98	0.40468	(17121508)	653429.81	4182456.98	0.44651	(17121508)
653479.81	4182456.98	0.47287	(17121508)	653529.81	4182456.98	0.52416	(17020109)
653579.81	4182456.98	0.58200	(17020109)	653629.81	4182456.98	0.62851	(17011609)

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        653679.81   4182456.98        0.69829  (17011609)               653729.81
4182456.98        0.70567  (17011609)
        653779.81   4182456.98        0.61905  (17011609)               653829.81
4182456.98        0.49048  (17011209)
        653879.81   4182456.98        0.53592  (17011708)               653929.81
4182456.98        0.60363  (17011708)
        653979.81   4182456.98        0.60985  (17011208)               654029.81
4182456.98        0.69036  (17011208)
        654079.81   4182456.98        0.68106  (17011208)               654129.81
4182456.98        0.59296  (17011208)
        654179.81   4182456.98        0.52176  (17012408)               654229.81
4182456.98        0.50909  (17030208)
        654279.81   4182456.98        0.51850  (17030208)               654329.81
4182456.98        0.49149  (17030208)
        654379.81   4182456.98        0.44858  (17122708)               654429.81
4182456.98        0.39155  (17122708)
        654479.81   4182456.98        0.33702  (17022308)               654529.81
4182456.98        0.32598  (17022308)
        654579.81   4182456.98        0.30554  (17022308)               654629.81
4182456.98        0.27896  (17022308)
        654679.81   4182456.98        0.24919  (17022308)               654729.81
4182456.98        0.22574  (17122508)
        654779.81   4182456.98        0.22601  (17122508)               654829.81
4182456.98        0.22352  (17122508)
        654879.81   4182456.98        0.21884  (17122508)               654929.81
4182456.98        0.21239  (17122508)
        654979.81   4182456.98        0.20457  (17122508)               655029.81
4182456.98        0.19573  (17122508)
        655079.81   4182456.98        0.18624  (17122508)               655129.81
4182456.98        0.17637  (17122508)
        652679.81   4182506.98        0.24710  (17021308)               652729.81
4182506.98        0.24873  (17021308)
        652779.81   4182506.98        0.25967  (17120608)               652829.81
4182506.98        0.26998  (17120608)
        652879.81   4182506.98        0.27847  (17120608)               652929.81
4182506.98        0.28497  (17120608)
        652979.81   4182506.98        0.28885  (17120608)               653029.81
4182506.98        0.29544  (17020108)
        653079.81   4182506.98        0.31077  (17020108)               653129.81
4182506.98        0.32184  (17020108)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653179.81	4182506.98	0.34200	(17121108)	653229.81	4182506.98	0.38016	(17121108)
653279.81	4182506.98	0.41443	(17121108)	653329.81	4182506.98	0.44109	(17121108)
653379.81	4182506.98	0.45516	(17121108)	653429.81	4182506.98	0.46008	(17121508)
653479.81	4182506.98	0.50488	(17121508)	653529.81	4182506.98	0.53837	(17020109)
653579.81	4182506.98	0.61553	(17020109)	653629.81	4182506.98	0.66886	(17011609)
653679.81	4182506.98	0.76026	(17011609)	653729.81	4182506.98	0.79087	(17011609)
653779.81	4182506.98	0.71684	(17011609)	653829.81	4182506.98	0.54503	(17011209)
653879.81	4182506.98	0.63530	(17011708)	653929.81	4182506.98	0.68138	(17011708)
653979.81	4182506.98	0.76372	(17011208)	654029.81	4182506.98	0.79680	(17011208)
654079.81	4182506.98	0.71548	(17011208)	654129.81	4182506.98	0.61191	(17012408)
654179.81	4182506.98	0.59171	(17030208)	654229.81	4182506.98	0.59518	(17030208)
654279.81	4182506.98	0.55373	(17122708)	654329.81	4182506.98	0.49514	(17122708)
654379.81	4182506.98	0.42050	(17122708)	654429.81	4182506.98	0.38155	(17022308)
654479.81	4182506.98	0.35876	(17022308)	654529.81	4182506.98	0.32700	(17022308)
654579.81	4182506.98	0.29056	(17022308)	654629.81	4182506.98	0.26331	(17122508)
654679.81	4182506.98	0.26194	(17122508)	654729.81	4182506.98	0.25712	(17122508)
654779.81	4182506.98	0.24963	(17122508)	654829.81	4182506.98	0.24018	(17122508)
654879.81	4182506.98	0.22927	(17122508)	654929.81	4182506.98	0.21744	(17122508)
654979.81	4182506.98	0.20503	(17122508)	655029.81	4182506.98	0.19245	(17122508)

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        655079.81   4182506.98        0.17997  (17122508)                655129.81
4182506.98        0.16774  (17122508)
        652679.81   4182556.98        0.26746  (17021308)                652729.81
4182556.98        0.27466  (17021308)
        652779.81   4182556.98        0.28038  (17021308)                652829.81
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        652879.81   4182556.98        0.29361  (17120608)                652929.81
4182556.98        0.30660  (17120608)
        652979.81   4182556.98        0.31770  (17120608)                653029.81
4182556.98        0.32636  (17120608)
        653079.81   4182556.98        0.33195  (17120608)                653129.81
4182556.98        0.33805  (17020108)
        653179.81   4182556.98        0.35552  (17020108)                653229.81
4182556.98        0.37343  (17121108)
        653279.81   4182556.98        0.41828  (17121108)                653329.81
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        653379.81   4182556.98        0.49388  (17121108)                653429.81
4182556.98        0.51425  (17121108)
        653479.81   4182556.98        0.52854  (17121508)                653529.81
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        653579.81   4182556.98        0.64687  (17020109)                653629.81
4182556.98        0.72153  (17020109)
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4182556.98        0.89040  (17011609)
        653779.81   4182556.98        0.83925  (17011609)                653829.81
4182556.98        0.62788  (17011609)
        653879.81   4182556.98        0.75260  (17011708)                653929.81
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        653979.81   4182556.98        0.93112  (17011208)                654029.81
4182556.98        0.87578  (17011208)
        654079.81   4182556.98        0.73025  (17012408)                654129.81
4182556.98        0.69998  (17030208)
        654179.81   4182556.98        0.69229  (17030208)                654229.81
4182556.98        0.63124  (17122708)
        654279.81   4182556.98        0.54751  (17122708)                654329.81
4182556.98        0.45376  (17022308)
        654379.81   4182556.98        0.42875  (17022308)                654429.81
4182556.98        0.39017  (17022308)
        654479.81   4182556.98        0.34447  (17022308)                654529.81
4182556.98        0.31237  (17122508)
        654579.81   4182556.98        0.30806  (17122508)                654629.81
4182556.98        0.29944  (17122508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654679.81	4182556.98	0.28772	(17122508)	654729.81	4182556.98	0.27386	(17122508)
654779.81	4182556.98	0.25861	(17122508)	654829.81	4182556.98	0.24264	(17122508)
654879.81	4182556.98	0.22642	(17122508)	654929.81	4182556.98	0.21033	(17122508)
654979.81	4182556.98	0.19468	(17122508)	655029.81	4182556.98	0.17968	(17122508)
655079.81	4182556.98	0.16541	(17122508)	655129.81	4182556.98	0.15193	(17122508)
652679.81	4182606.98	0.27618	(17021308)	652729.81	4182606.98	0.28886	(17021308)
652779.81	4182606.98	0.30063	(17021308)	652829.81	4182606.98	0.31129	(17021308)
652879.81	4182606.98	0.32055	(17021308)	652929.81	4182606.98	0.32799	(17021308)
652979.81	4182606.98	0.33571	(17120608)	653029.81	4182606.98	0.35261	(17120608)
653079.81	4182606.98	0.36751	(17120608)	653129.81	4182606.98	0.37976	(17120608)
653179.81	4182606.98	0.38845	(17120608)	653229.81	4182606.98	0.39263	(17020108)
653279.81	4182606.98	0.41358	(17020108)	653329.81	4182606.98	0.46419	(17121108)
653379.81	4182606.98	0.51570	(17121108)	653429.81	4182606.98	0.56046	(17121108)
653479.81	4182606.98	0.59063	(17121108)	653529.81	4182606.98	0.61655	(17121508)
653579.81	4182606.98	0.67785	(17020109)	653629.81	4182606.98	0.78064	(17020109)
653679.81	4182606.98	0.91304	(17011609)	653729.81	4182606.98	1.00905	(17011609)
653779.81	4182606.98	0.99460	(17011609)	653829.81	4182606.98	0.78074	(17011609)
653879.81	4182606.98	0.89149	(17011708)	653929.81	4182606.98	1.07650	(17011208)

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        653979.81   4182606.98        1.08852  (17011208)               654029.81
4182606.98        0.89452  (17011208)
        654079.81   4182606.98        0.84739  (17030208)               654129.81
4182606.98        0.81806  (17030208)
        654179.81   4182606.98        0.72527  (17122708)               654229.81
4182606.98        0.60574  (17122708)
        654279.81   4182606.98        0.52394  (17022308)               654329.81
4182606.98        0.47597  (17022308)
        654379.81   4182606.98        0.41705  (17022308)               654429.81
4182606.98        0.37856  (17122508)
        654479.81   4182606.98        0.36878  (17122508)               654529.81
4182606.98        0.35393  (17122508)
        654579.81   4182606.98        0.33559  (17122508)               654629.81
4182606.98        0.31520  (17122508)
        654679.81   4182606.98        0.29373  (17122508)               654729.81
4182606.98        0.27198  (17122508)
        654779.81   4182606.98        0.25057  (17122508)               654829.81
4182606.98        0.22996  (17122508)
        654879.81   4182606.98        0.21040  (17122508)               654929.81
4182606.98        0.19195  (17122508)
        654979.81   4182606.98        0.17478  (17122508)               655029.81
4182606.98        0.16234  (17030108)
        655079.81   4182606.98        0.15451  (17030108)               655129.81
4182606.98        0.14681  (17030108)
        652679.81   4182656.98        0.27215  (17021308)               652729.81
4182656.98        0.28948  (17021308)
        652779.81   4182656.98        0.30671  (17021308)               652829.81
4182656.98        0.32351  (17021308)
        652879.81   4182656.98        0.33982  (17021308)               652929.81
4182656.98        0.35522  (17021308)
        652979.81   4182656.98        0.36949  (17021308)               653029.81
4182656.98        0.38229  (17021308)
        653079.81   4182656.98        0.39303  (17021308)               653129.81
4182656.98        0.41200  (17120608)
        653179.81   4182656.98        0.43303  (17120608)               653229.81
4182656.98        0.45145  (17120608)
        653279.81   4182656.98        0.46605  (17120608)               653329.81
4182656.98        0.47519  (17120608)
        653379.81   4182656.98        0.52130  (17121108)               653429.81
4182656.98        0.58669  (17121108)
        653479.81   4182656.98        0.64716  (17121108)               653529.81
4182656.98        0.69286  (17121108)
        653579.81   4182656.98        0.73451  (17121508)               653629.81
4182656.98        0.84381  (17020109)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                PAGE  81
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653679.81	4182656.98	1.01447	(17011609)	653729.81	4182656.98	1.15718	(17011609)
653779.81	4182656.98	1.19698	(17011609)	653829.81	4182656.98	1.00888	(17011609)
653879.81	4182656.98	1.21213	(17011208)	653929.81	4182656.98	1.37097	(17011208)
653979.81	4182656.98	1.18511	(17011208)	654029.81	4182656.98	1.05921	(17030208)
654079.81	4182656.98	0.98561	(17030208)	654129.81	4182656.98	0.83969	(17122708)
654179.81	4182656.98	0.66886	(17122708)	654229.81	4182656.98	0.59768	(17022308)
654279.81	4182656.98	0.51857	(17022308)	654329.81	4182656.98	0.47082	(17122508)
654379.81	4182656.98	0.45111	(17122508)	654429.81	4182656.98	0.42560	(17122508)
654479.81	4182656.98	0.39666	(17122508)	654529.81	4182656.98	0.36628	(17122508)
654579.81	4182656.98	0.33572	(17122508)	654629.81	4182656.98	0.30595	(17122508)
654679.81	4182656.98	0.27764	(17122508)	654729.81	4182656.98	0.25114	(17122508)
654779.81	4182656.98	0.22660	(17122508)	654829.81	4182656.98	0.20405	(17122508)
654879.81	4182656.98	0.19004	(17030108)	654929.81	4182656.98	0.17918	(17030108)
654979.81	4182656.98	0.16873	(17030108)	655029.81	4182656.98	0.15875	(17030108)
655079.81	4182656.98	0.14928	(17030108)	655129.81	4182656.98	0.14028	(17030108)
652679.81	4182706.98	0.25564	(17021308)	652729.81	4182706.98	0.27649	(17021308)
652779.81	4182706.98	0.29794	(17021308)	652829.81	4182706.98	0.31973	(17021308)

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        652879.81   4182706.98        0.34187  (17021308)                652929.81
4182706.98        0.36411  (17021308)
        652979.81   4182706.98        0.38634  (17021308)                653029.81
4182706.98        0.40844  (17021308)
        653079.81   4182706.98        0.43012  (17021308)                653129.81
4182706.98        0.45112  (17021308)
        653179.81   4182706.98        0.47086  (17021308)                653229.81
4182706.98        0.49170  (17120608)
        653279.81   4182706.98        0.52341  (17120608)                653329.81
4182706.98        0.55329  (17120608)
        653379.81   4182706.98        0.57962  (17120608)                653429.81
4182706.98        0.59992  (17120608)
        653479.81   4182706.98        0.68015  (17121108)                653529.81
4182706.98        0.76510  (17121108)
        653579.81   4182706.98        0.83778  (17121108)                653629.81
4182706.98        0.91643  (17020109)
        653679.81   4182706.98        1.14709  (17011609)                653729.81
4182706.98        1.35755  (17011609)
        653779.81   4182706.98        1.47975  (17011609)                653829.81
4182706.98        1.37396  (17011609)
        653879.81   4182706.98        1.72090  (17011208)                653929.81
4182706.98        1.66848  (17011208)
        653979.81   4182706.98        1.39119  (17030208)                654029.81
4182706.98        1.21550  (17030208)
        654079.81   4182706.98        0.97813  (17122708)                654129.81
4182706.98        0.78040  (17022308)
        654179.81   4182706.98        0.66785  (17022308)                654229.81
4182706.98        0.60671  (17122508)
        654279.81   4182706.98        0.56724  (17122508)                654329.81
4182706.98        0.52243  (17122508)
        654379.81   4182706.98        0.47588  (17122508)                654429.81
4182706.98        0.42994  (17122508)
        654479.81   4182706.98        0.38596  (17122508)                654529.81
4182706.98        0.34497  (17122508)
        654579.81   4182706.98        0.30735  (17122508)                654629.81
4182706.98        0.27322  (17122508)
        654679.81   4182706.98        0.24257  (17122508)                654729.81
4182706.98        0.22606  (17030108)
        654779.81   4182706.98        0.21059  (17030108)                654829.81
4182706.98        0.19607  (17030108)
        654879.81   4182706.98        0.18246  (17030108)                654929.81
4182706.98        0.16979  (17030108)
        654979.81   4182706.98        0.15802  (17030108)                655029.81
4182706.98        0.14737  (17112308)
        655079.81   4182706.98        0.13757  (17112308)                655129.81
4182706.98        0.12850  (17112308)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652679.81	4182756.98	0.25109	(17120708)	652729.81	4182756.98	0.25904	(17120708)
652779.81	4182756.98	0.27539	(17021308)	652829.81	4182756.98	0.30072	(17021308)
652879.81	4182756.98	0.32713	(17021308)	652929.81	4182756.98	0.35450	(17021308)
652979.81	4182756.98	0.38287	(17021308)	653029.81	4182756.98	0.41223	(17021308)
653079.81	4182756.98	0.44257	(17021308)	653129.81	4182756.98	0.47423	(17021308)
653179.81	4182756.98	0.50706	(17021308)	653229.81	4182756.98	0.54106	(17021308)
653279.81	4182756.98	0.57627	(17021308)	653329.81	4182756.98	0.61163	(17021308)
653379.81	4182756.98	0.65646	(17120608)	653429.81	4182756.98	0.70911	(17120608)
653479.81	4182756.98	0.76157	(17120608)	653529.81	4182756.98	0.81179	(17121108)
653579.81	4182756.98	0.93981	(17121108)	653629.81	4182756.98	1.06689	(17121108)
653679.81	4182756.98	1.33642	(17011609)	653729.81	4182756.98	1.66837	(17011609)
653779.81	4182756.98	1.95811	(17011609)	653829.81	4182756.98	2.18775	(17011208)
653879.81	4182756.98	2.59798	(17011208)	653929.81	4182756.98	2.00563	(17030208)
653979.81	4182756.98	1.54016	(17122708)	654029.81	4182756.98	1.14398	(17122708)
654079.81	4182756.98	0.90176	(17022308)	654129.81	4182756.98	0.81859	(17122508)
654179.81	4182756.98	0.73743	(17122508)	654229.81	4182756.98	0.65696	(17122508)

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        654279.81   4182756.98        0.58025  (17122508)               654329.81
4182756.98        0.50948  (17122508)
        654379.81   4182756.98        0.44551  (17122508)               654429.81
4182756.98        0.38865  (17122508)
        654479.81   4182756.98        0.33864  (17122508)               654529.81
4182756.98        0.29867  (17030108)
        654579.81   4182756.98        0.27392  (17030108)               654629.81
4182756.98        0.25122  (17030108)
        654679.81   4182756.98        0.23049  (17030108)               654729.81
4182756.98        0.21183  (17112308)
        654779.81   4182756.98        0.19504  (17112308)               654829.81
4182756.98        0.17977  (17112308)
        654879.81   4182756.98        0.16590  (17112308)               654929.81
4182756.98        0.15329  (17112308)
        654979.81   4182756.98        0.14182  (17112308)               655029.81
4182756.98        0.13134  (17112308)
        655079.81   4182756.98        0.12180  (17112308)               655129.81
4182756.98        0.11306  (17112308)
        652679.81   4182806.98        0.27223  (17120708)               652729.81
4182806.98        0.28426  (17120708)
        652779.81   4182806.98        0.29676  (17120708)               652829.81
4182806.98        0.30987  (17120708)
        652879.81   4182806.98        0.32347  (17120708)               652929.81
4182806.98        0.33778  (17120708)
        652979.81   4182806.98        0.36113  (17021308)               653029.81
4182806.98        0.39552  (17021308)
        653079.81   4182806.98        0.43191  (17021308)               653129.81
4182806.98        0.47088  (17021308)
        653179.81   4182806.98        0.51304  (17021308)               653229.81
4182806.98        0.55918  (17021308)
        653279.81   4182806.98        0.60983  (17021308)               653329.81
4182806.98        0.66542  (17021308)
        653379.81   4182806.98        0.72686  (17021308)               653429.81
4182806.98        0.79505  (17021308)
        653479.81   4182806.98        0.87311  (17120608)               653529.81
4182806.98        0.98147  (17120608)
        653579.81   4182806.98        1.10960  (17120608)               653629.81
4182806.98        1.26644  (17120608)
        653679.81   4182806.98        1.64412  (17011609)               653729.81
4182806.98        2.29087  (17011609)
        653929.81   4182806.98        2.01145  (17122708)               653979.81
4182806.98        1.38432  (17122508)
        654029.81   4182806.98        1.17159  (17122508)               654079.81
4182806.98        0.99906  (17122508)
        654129.81   4182806.98        0.84936  (17122508)               654179.81
4182806.98        0.71965  (17122508)
        654229.81   4182806.98        0.60861  (17122508)               654279.81
4182806.98        0.51457  (17122508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654329.81	4182806.98	0.43551	(17122508)	654379.81	4182806.98	0.37919	(17112308)
654429.81	4182806.98	0.34011	(17112308)	654479.81	4182806.98	0.30587	(17112308)
654529.81	4182806.98	0.27582	(17112308)	654579.81	4182806.98	0.24936	(17112308)
654629.81	4182806.98	0.22601	(17112308)	654679.81	4182806.98	0.20534	(17112308)
654729.81	4182806.98	0.18700	(17112308)	654779.81	4182806.98	0.17068	(17112308)
654829.81	4182806.98	0.15610	(17112308)	654879.81	4182806.98	0.14306	(17112308)
654929.81	4182806.98	0.13402	(17112208)	654979.81	4182806.98	0.12835	(17112208)
655029.81	4182806.98	0.12307	(17112208)	655079.81	4182806.98	0.11815	(17112208)
655129.81	4182806.98	0.11358	(17112208)	652679.81	4182856.98	0.27830	(17013008)
652729.81	4182856.98	0.29255	(17120708)	652779.81	4182856.98	0.30866	(17120708)
652829.81	4182856.98	0.32577	(17120708)	652879.81	4182856.98	0.34396	(17120708)
652929.81	4182856.98	0.36332	(17120708)	652979.81	4182856.98	0.38436	(17120708)
653029.81	4182856.98	0.40702	(17120708)	653079.81	4182856.98	0.43189	(17120708)
653129.81	4182856.98	0.45942	(17120708)	653179.81	4182856.98	0.49447	(17021308)
653229.81	4182856.98	0.54770	(17021308)	653279.81	4182856.98	0.60776	(17021308)

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        653329.81   4182856.98        0.67662  (17021308)              653379.81
4182856.98        0.75684  (17021308)
        653429.81   4182856.98        0.85203  (17021308)              653479.81
4182856.98        0.96795  (17021308)
        653529.81   4182856.98        1.11435  (17021308)              653579.81
4182856.98        1.31946  (17120608)
        653629.81   4182856.98        1.65942  (17120608)              653679.81
4182856.98        2.33092  (17120608)
        653929.81   4182856.98        1.88002  (17122508)              653979.81
4182856.98        1.45227  (17122508)
        654029.81   4182856.98        1.14864  (17122508)              654079.81
4182856.98        0.91481  (17122508)
        654129.81   4182856.98        0.73342  (17122508)              654179.81
4182856.98        0.59228  (17122508)
        654229.81   4182856.98        0.50094  (17112308)              654279.81
4182856.98        0.43490  (17112308)
        654329.81   4182856.98        0.38013  (17112308)              654379.81
4182856.98        0.33425  (17112308)
        654429.81   4182856.98        0.29551  (17112308)              654479.81
4182856.98        0.26640  (17112908)
        654529.81   4182856.98        0.24696  (17112908)              654579.81
4182856.98        0.22998  (17112908)
        654629.81   4182856.98        0.21508  (17112208)              654679.81
4182856.98        0.20204  (17112208)
        654729.81   4182856.98        0.19029  (17112208)              654779.81
4182856.98        0.17971  (17112208)
        654829.81   4182856.98        0.17015  (17112208)              654879.81
4182856.98        0.16144  (17112208)
        654929.81   4182856.98        0.15349  (17112208)              654979.81
4182856.98        0.14620  (17112208)
        655029.81   4182856.98        0.13948  (17112208)              655079.81
4182856.98        0.13330  (17112208)
        655129.81   4182856.98        0.12760  (17112208)              652679.81
4182906.98        0.30037  (17013008)
        652729.81   4182906.98        0.31589  (17013008)              652779.81
4182906.98        0.33272  (17013008)
        652829.81   4182906.98        0.35092  (17013008)              652879.81
4182906.98        0.37069  (17013008)
        652929.81   4182906.98        0.39223  (17013008)              652979.81
4182906.98        0.41598  (17013008)
        653029.81   4182906.98        0.44238  (17013008)              653079.81
4182906.98        0.47191  (17013008)
        653129.81   4182906.98        0.50535  (17013008)              653179.81
4182906.98        0.54355  (17013008)
        653229.81   4182906.98        0.58783  (17013008)              653279.81
4182906.98        0.63989  (17013008)
        653329.81   4182906.98        0.70209  (17013008)              653379.81
4182906.98        0.77800  (17013008)
        653429.81   4182906.98        0.87320  (17013008)              653479.81
4182906.98        1.01011  (17021308)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653529.81	4182906.98	1.20863	(17021308)	653579.81	4182906.98	1.50533	(17021308)
653629.81	4182906.98	2.13975	(17120608)	653929.81	4182906.98	1.81439	(17122508)
653979.81	4182906.98	1.25019	(17122508)	654029.81	4182906.98	0.94555	(17112908)
654079.81	4182906.98	0.78925	(17112908)	654129.81	4182906.98	0.67405	(17112908)
654179.81	4182906.98	0.58568	(17112908)	654229.81	4182906.98	0.51581	(17112908)
654279.81	4182906.98	0.45938	(17112908)	654329.81	4182906.98	0.41298	(17112908)
654379.81	4182906.98	0.37423	(17112908)	654429.81	4182906.98	0.34142	(17112908)
654479.81	4182906.98	0.31338	(17112908)	654529.81	4182906.98	0.28912	(17112908)
654579.81	4182906.98	0.26795	(17112908)	654629.81	4182906.98	0.24937	(17112908)
654679.81	4182906.98	0.23288	(17112908)	654729.81	4182906.98	0.21822	(17112908)
654779.81	4182906.98	0.20511	(17112908)	654829.81	4182906.98	0.19327	(17112908)
654879.81	4182906.98	0.18259	(17112908)	654929.81	4182906.98	0.17291	(17112908)
654979.81	4182906.98	0.16408	(17112908)	655029.81	4182906.98	0.15597	(17112908)
655079.81	4182906.98	0.14851	(17112908)	655129.81	4182906.98	0.14166	(17112908)

652679.81 4182956.98 0.30303 (17013008) 652729.81
4182956.98 0.32049 (17013008)
652779.81 4182956.98 0.33958 (17013008) 652829.81
4182956.98 0.36038 (17013008)
652879.81 4182956.98 0.38317 (17013008) 652929.81
4182956.98 0.40815 (17013008)
652979.81 4182956.98 0.43565 (17013008) 653029.81
4182956.98 0.46616 (17013008)
653079.81 4182956.98 0.50016 (17013008) 653129.81
4182956.98 0.53847 (17013008)
653179.81 4182956.98 0.58229 (17013008) 653229.81
4182956.98 0.63335 (17013008)
653279.81 4182956.98 0.69392 (17013008) 653329.81
4182956.98 0.76734 (17013008)
653379.81 4182956.98 0.85879 (17013008) 653429.81
4182956.98 0.97686 (17013008)
653479.81 4182956.98 1.14718 (17110108) 653529.81
4182956.98 1.42184 (17110108)
653579.81 4182956.98 1.92048 (17110108) 653929.81
4182956.98 1.52207 (17112908)
653979.81 4182956.98 1.16524 (17022708) 654029.81
4182956.98 0.96282 (17022708)
654079.81 4182956.98 0.82308 (17022708) 654129.81
4182956.98 0.71807 (17022708)
654179.81 4182956.98 0.63491 (17022708) 654229.81
4182956.98 0.56689 (17022708)
654279.81 4182956.98 0.51004 (17022708) 654329.81
4182956.98 0.46181 (17022708)
654379.81 4182956.98 0.42047 (17022708) 654429.81
4182956.98 0.38472 (17022708)
654479.81 4182956.98 0.35360 (17022708) 654529.81
4182956.98 0.32628 (17022708)
654579.81 4182956.98 0.30219 (17022708) 654629.81
4182956.98 0.28085 (17022708)
654679.81 4182956.98 0.26180 (17022708) 654729.81
4182956.98 0.24476 (17022708)
654779.81 4182956.98 0.22946 (17022708) 654829.81
4182956.98 0.21564 (17022708)
654879.81 4182956.98 0.20311 (17022708) 654929.81
4182956.98 0.19167 (17022708)
654979.81 4182956.98 0.18126 (17022708) 655029.81
4182956.98 0.17173 (17022708)
655079.81 4182956.98 0.16300 (17022708) 655129.81
4182956.98 0.15497 (17022708)
652679.81 4183006.98 0.29715 (17012309) 652729.81
4183006.98 0.31362 (17012309)
652779.81 4183006.98 0.33175 (17012309) 652829.81
4183006.98 0.35201 (17012309)
652879.81 4183006.98 0.37533 (17120108) 652929.81
4183006.98 0.40272 (17120108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653079.81	4183006.98	0.50625	(17120108)	653129.81	4183006.98	0.55029	(17120108)
653179.81	4183006.98	0.60110	(17120108)	653229.81	4183006.98	0.66051	(17120108)
653279.81	4183006.98	0.73490	(17110108)	653329.81	4183006.98	0.82871	(17110108)
653379.81	4183006.98	0.94852	(17110108)	653429.81	4183006.98	1.11228	(17122608)
653479.81	4183006.98	1.38858	(17122608)	653529.81	4183006.98	1.84610	(17122608)
653579.81	4183006.98	3.06733	(17122609)	653829.81	4183006.98	2.23510	(17110708)
653879.81	4183006.98	1.64644	(17110708)	653929.81	4183006.98	1.24646	(17022408)
653979.81	4183006.98	0.97571	(17113008)	654029.81	4183006.98	0.82137	(17022708)
654079.81	4183006.98	0.73297	(17022708)	654129.81	4183006.98	0.66013	(17022708)
654179.81	4183006.98	0.59893	(17022708)	654229.81	4183006.98	0.54655	(17022708)
654279.81	4183006.98	0.50108	(17022708)	654329.81	4183006.98	0.46112	(17022708)
654379.81	4183006.98	0.42582	(17022708)	654429.81	4183006.98	0.39439	(17022708)
654479.81	4183006.98	0.36625	(17022708)	654529.81	4183006.98	0.34104	(17022708)

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        654579.81   4183006.98        0.31836  (17022708)              654629.81
4183006.98        0.29788  (17022708)
        654679.81   4183006.98        0.27929  (17022708)              654729.81
4183006.98        0.26240  (17022708)
        654779.81   4183006.98        0.24704  (17022708)              654829.81
4183006.98        0.23304  (17022708)
        654879.81   4183006.98        0.22022  (17022708)              654929.81
4183006.98        0.20846  (17022708)
        654979.81   4183006.98        0.19764  (17022708)              655029.81
4183006.98        0.18767  (17022708)
        655079.81   4183006.98        0.17847  (17022708)              655129.81
4183006.98        0.16991  (17022708)
        652679.81   4183056.98        0.31342  (17120108)              652729.81
4183056.98        0.33249  (17120108)
        652779.81   4183056.98        0.35349  (17120108)              652829.81
4183056.98        0.37703  (17120108)
        652879.81   4183056.98        0.40285  (17120108)              652929.81
4183056.98        0.43142  (17120108)
        652979.81   4183056.98        0.46336  (17120108)              653029.81
4183056.98        0.49934  (17120108)
        653079.81   4183056.98        0.54007  (17120108)              653129.81
4183056.98        0.58651  (17120108)
        653179.81   4183056.98        0.64000  (17120108)              653229.81
4183056.98        0.71169  (17122608)
        653279.81   4183056.98        0.81964  (17122608)              653329.81
4183056.98        0.95333  (17122608)
        653379.81   4183056.98        1.12597  (17122608)              653429.81
4183056.98        1.36620  (17122608)
        653479.81   4183056.98        1.85884  (17122609)              653529.81
4183056.98        3.09242  (17122609)
        653729.81   4183056.98        2.35131  (17030308)              653779.81
4183056.98        1.89482  (17030308)
        653829.81   4183056.98        1.52367  (17110708)              653879.81
4183056.98        1.26027  (17110708)
        653929.81   4183056.98        1.08058  (17022408)              653979.81
4183056.98        0.88334  (17022408)
        654029.81   4183056.98        0.76059  (17122709)              654079.81
4183056.98        0.65445  (17122709)
        654129.81   4183056.98        0.54521  (17122709)              654179.81
4183056.98        0.49985  (17022708)
        654229.81   4183056.98        0.46857  (17022708)              654279.81
4183056.98        0.43982  (17022708)
        654329.81   4183056.98        0.41326  (17022708)              654379.81
4183056.98        0.38874  (17022708)
        654429.81   4183056.98        0.36608  (17022708)              654479.81
4183056.98        0.34509  (17022708)
        654529.81   4183056.98        0.32564  (17022708)              654579.81
4183056.98        0.30761  (17022708)
        654629.81   4183056.98        0.29089  (17022708)              654679.81
4183056.98        0.27538  (17022708)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654929.81	4183056.98	0.21281	(17022708)	654979.81	4183056.98	0.20278	(17022708)
655029.81	4183056.98	0.19342	(17022708)	655079.81	4183056.98	0.18469	(17022708)
655129.81	4183056.98	0.17652	(17022708)	652679.81	4183106.98	0.32436	(17013109)
652729.81	4183106.98	0.34388	(17013109)	652779.81	4183106.98	0.36501	(17013109)
652829.81	4183106.98	0.38806	(17013109)	652879.81	4183106.98	0.41338	(17013109)
652929.81	4183106.98	0.44145	(17013109)	652979.81	4183106.98	0.47287	(17013109)
653029.81	4183106.98	0.51568	(17122608)	653079.81	4183106.98	0.57698	(17122608)
653129.81	4183106.98	0.64882	(17122608)	653179.81	4183106.98	0.73447	(17122608)
653229.81	4183106.98	0.83924	(17122608)	653279.81	4183106.98	0.97135	(17122608)
653329.81	4183106.98	1.14266	(17122608)	653379.81	4183106.98	1.39195	(17122608)
653429.81	4183106.98	2.02544	(17122609)	653679.81	4183106.98	1.93296	(17030308)
653729.81	4183106.98	1.65021	(17030308)	653779.81	4183106.98	1.40255	(17030308)

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        653829.81   4183106.98        1.19827  (17110708)              653879.81
4183106.98        1.05105  (17110708)
        653929.81   4183106.98        0.90973  (17022408)              653979.81
4183106.98        0.83253  (17022408)
        654029.81   4183106.98        0.69171  (17022408)              654079.81
4183106.98        0.62740  (17122709)
        654129.81   4183106.98        0.56652  (17122709)              654179.81
4183106.98        0.49549  (17122709)
        654229.81   4183106.98        0.42150  (17122709)              654279.81
4183106.98        0.35190  (17022708)
        654329.81   4183106.98        0.33812  (17022708)              654379.81
4183106.98        0.32469  (17022708)
        654429.81   4183106.98        0.31162  (17022708)              654479.81
4183106.98        0.29893  (17022708)
        654529.81   4183106.98        0.28664  (17022708)              654579.81
4183106.98        0.27478  (17022708)
        654629.81   4183106.98        0.26337  (17022708)              654679.81
4183106.98        0.25241  (17022708)
        654729.81   4183106.98        0.24193  (17022708)              654779.81
4183106.98        0.23191  (17022708)
        654829.81   4183106.98        0.22237  (17022708)              654879.81
4183106.98        0.21328  (17022708)
        654929.81   4183106.98        0.20465  (17022708)              654979.81
4183106.98        0.19644  (17022708)
        655029.81   4183106.98        0.18864  (17022708)              655079.81
4183106.98        0.18125  (17022708)
        655129.81   4183106.98        0.17423  (17022708)              652679.81
4183156.98        0.31462  (17013109)
        652729.81   4183156.98        0.32977  (17013109)              652779.81
4183156.98        0.35610  (17122608)
        652829.81   4183156.98        0.38859  (17122608)              652879.81
4183156.98        0.42463  (17122608)
        652929.81   4183156.98        0.46491  (17122608)              652979.81
4183156.98        0.51767  (17122509)
        653029.81   4183156.98        0.58316  (17122509)              653079.81
4183156.98        0.65774  (17122509)
        653129.81   4183156.98        0.74420  (17122509)              653179.81
4183156.98        0.84845  (17122509)
        653229.81   4183156.98        0.98377  (17122509)              653279.81
4183156.98        1.18893  (17122609)
        653329.81   4183156.98        1.85117  (17122609)              653379.81
4183156.98        2.64229  (17122609)
        653429.81   4183156.98        2.87489  (17122609)              653479.81
4183156.98        2.58693  (17122909)
        653529.81   4183156.98        2.59507  (17122909)              653579.81
4183156.98        2.05487  (17121208)
        653629.81   4183156.98        1.58465  (17121208)              653679.81
4183156.98        1.41620  (17030308)
        653729.81   4183156.98        1.29795  (17030308)              653779.81
4183156.98        1.13242  (17030308)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654129.81	4183156.98	0.53135	(17122709)	654179.81	4183156.98	0.49531	(17122709)
654229.81	4183156.98	0.44875	(17122709)	654279.81	4183156.98	0.39605	(17122709)
654329.81	4183156.98	0.34154	(17122709)	654379.81	4183156.98	0.28880	(17122709)
654429.81	4183156.98	0.24589	(17022708)	654479.81	4183156.98	0.24036	(17022708)
654529.81	4183156.98	0.23459	(17022708)	654579.81	4183156.98	0.22864	(17022708)
654629.81	4183156.98	0.22256	(17022708)	654679.81	4183156.98	0.21640	(17022708)
654729.81	4183156.98	0.21021	(17022708)	654779.81	4183156.98	0.20404	(17022708)
654829.81	4183156.98	0.19793	(17022708)	654879.81	4183156.98	0.19190	(17022708)
654929.81	4183156.98	0.18599	(17022708)	654979.81	4183156.98	0.18019	(17022708)
655029.81	4183156.98	0.17454	(17022708)	655079.81	4183156.98	0.16904	(17022708)
655129.81	4183156.98	0.16371	(17022708)	652679.81	4183206.98	0.32707	(17122608)

652729.81 4183206.98 0.35290 (17122509) 652779.81
4183206.98 0.39060 (17122509)
652829.81 4183206.98 0.43157 (17122509) 652879.81
4183206.98 0.47579 (17122509)
652929.81 4183206.98 0.52343 (17122509) 652979.81
4183206.98 0.57418 (17122509)
653029.81 4183206.98 0.62812 (17122509) 653079.81
4183206.98 0.68484 (17122509)
653129.81 4183206.98 0.74321 (17122509) 653179.81
4183206.98 0.93600 (17122609)
653229.81 4183206.98 1.20097 (17122609) 653279.81
4183206.98 1.50041 (17122609)
653329.81 4183206.98 1.68814 (17122609) 653379.81
4183206.98 1.60071 (17122609)
653429.81 4183206.98 1.61069 (17122909) 653479.81
4183206.98 1.77424 (17122909)
653529.81 4183206.98 1.57673 (17122909) 653579.81
4183206.98 1.38851 (17121208)
653629.81 4183206.98 1.16949 (17030308) 653679.81
4183206.98 1.15213 (17030308)
653729.81 4183206.98 1.08447 (17030308) 653779.81
4183206.98 0.95590 (17010609)
653829.81 4183206.98 0.85352 (17110708) 653879.81
4183206.98 0.80168 (17110708)
653929.81 4183206.98 0.69301 (17110708) 653979.81
4183206.98 0.65194 (17022408)
654029.81 4183206.98 0.62922 (17022408) 654079.81
4183206.98 0.57233 (17022408)
654129.81 4183206.98 0.48442 (17022408) 654179.81
4183206.98 0.45788 (17122709)
654229.81 4183206.98 0.43668 (17122709) 654279.81
4183206.98 0.40622 (17122709)
654329.81 4183206.98 0.36893 (17122709) 654379.81
4183206.98 0.32783 (17122709)
654429.81 4183206.98 0.28575 (17122709) 654479.81
4183206.98 0.24496 (17122709)
654529.81 4183206.98 0.20708 (17122709) 654579.81
4183206.98 0.17829 (17022708)
654629.81 4183206.98 0.17650 (17022708) 654679.81
4183206.98 0.17439 (17022708)
654729.81 4183206.98 0.17197 (17022708) 654779.81
4183206.98 0.16930 (17022708)
654829.81 4183206.98 0.16641 (17022708) 654879.81
4183206.98 0.16334 (17022708)
654929.81 4183206.98 0.16015 (17022708) 654979.81
4183206.98 0.15686 (17022708)
655029.81 4183206.98 0.15350 (17022708) 655079.81
4183206.98 0.15010 (17022708)
655129.81 4183206.98 0.14667 (17022708) 652679.81
4183256.98 0.36379 (17122509)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652729.81	4183256.98	0.39433	(17122509)	652779.81	4183256.98	0.42555	(17122509)
652829.81	4183256.98	0.45685	(17122509)	652879.81	4183256.98	0.48752	(17122509)
652929.81	4183256.98	0.51621	(17122509)	652979.81	4183256.98	0.54102	(17122509)
653029.81	4183256.98	0.61580	(17122609)	653079.81	4183256.98	0.75710	(17122609)
653129.81	4183256.98	0.91445	(17122609)	653179.81	4183256.98	1.07067	(17122609)
653229.81	4183256.98	1.18286	(17122609)	653279.81	4183256.98	1.18239	(17122609)
653329.81	4183256.98	1.02687	(17122609)	653379.81	4183256.98	1.17817	(17122909)
653429.81	4183256.98	1.34356	(17122909)	653479.81	4183256.98	1.28591	(17122909)
653529.81	4183256.98	1.18605	(17121208)	653579.81	4183256.98	1.03028	(17121208)
653629.81	4183256.98	0.97074	(17030308)	653679.81	4183256.98	0.98202	(17030308)
653729.81	4183256.98	0.93498	(17030308)	653779.81	4183256.98	0.83948	(17010609)
653829.81	4183256.98	0.74355	(17110708)	653879.81	4183256.98	0.71542	(17110708)
653929.81	4183256.98	0.64245	(17110708)	653979.81	4183256.98	0.58879	(17011608)
654029.81	4183256.98	0.56676	(17022408)	654079.81	4183256.98	0.54428	(17022408)

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        654129.81   4183256.98        0.49415  (17022408)              654179.81
4183256.98        0.42120  (17022408)
        654229.81   4183256.98        0.39914  (17122709)              654279.81
4183256.98        0.38742  (17122709)
        654329.81   4183256.98        0.36788  (17122709)              654379.81
4183256.98        0.34185  (17122709)
        654429.81   4183256.98        0.31128  (17122709)              654479.81
4183256.98        0.27825  (17122709)
        654529.81   4183256.98        0.24471  (17122709)              654579.81
4183256.98        0.21218  (17122709)
        654629.81   4183256.98        0.18174  (17122709)              654679.81
4183256.98        0.15693  (17113008)
        654729.81   4183256.98        0.13620  (17113008)              654779.81
4183256.98        0.13292  (17022708)
        654829.81   4183256.98        0.13258  (17022708)              654879.81
4183256.98        0.13196  (17022708)
        654929.81   4183256.98        0.13107  (17022708)              654979.81
4183256.98        0.12996  (17022708)
        655029.81   4183256.98        0.12865  (17022708)              655079.81
4183256.98        0.12717  (17022708)
        655129.81   4183256.98        0.12555  (17022708)              652679.81
4183306.98        0.37387  (17122509)
        652729.81   4183306.98        0.39323  (17122509)              652779.81
4183306.98        0.40958  (17122509)
        652829.81   4183306.98        0.42210  (17122509)              652879.81
4183306.98        0.44537  (17010909)
        652929.81   4183306.98        0.52767  (17122609)              652979.81
4183306.98        0.62908  (17122609)
        653029.81   4183306.98        0.73492  (17122609)              653079.81
4183306.98        0.83366  (17122609)
        653129.81   4183306.98        0.90497  (17122609)              653179.81
4183306.98        0.91990  (17122609)
        653229.81   4183306.98        0.85160  (17122609)              653279.81
4183306.98        0.73532  (17121808)
        653329.81   4183306.98        0.92240  (17122909)              653379.81
4183306.98        1.06708  (17122909)
        653429.81   4183306.98        1.07009  (17122909)              653479.81
4183306.98        0.99112  (17121208)
        653529.81   4183306.98        0.94103  (17121208)              653579.81
4183306.98        0.78671  (17121208)
        653629.81   4183306.98        0.83761  (17030308)              653679.81
4183306.98        0.85930  (17030308)
        653729.81   4183306.98        0.82212  (17030308)              653779.81
4183306.98        0.74939  (17010609)
        653829.81   4183306.98        0.65899  (17010609)              653879.81
4183306.98        0.64328  (17110708)
        653929.81   4183306.98        0.59534  (17110708)              653979.81
4183306.98        0.54118  (17011608)
        654029.81   4183306.98        0.50255  (17022408)              654079.81
4183306.98        0.50075  (17022408)
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        654129.81   4183306.98        0.47852  (17022408)                654179.81
4183306.98        0.43408  (17022408)
        654229.81   4183306.98        0.37236  (17022408)                654279.81
4183306.98        0.35057  (17122709)
        654329.81   4183306.98        0.34524  (17122709)                654379.81
4183306.98        0.33338  (17122709)
        654429.81   4183306.98        0.31565  (17122709)                654479.81
4183306.98        0.29328  (17122709)
        654529.81   4183306.98        0.26780  (17122709)                654579.81
4183306.98        0.24070  (17122709)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        654629.81   4183306.98        0.21331  (17122709)                654679.81
4183306.98        0.18673  (17122709)
        654729.81   4183306.98        0.16171  (17122709)                654779.81
4183306.98        0.14076  (17113008)
        654829.81   4183306.98        0.12357  (17113008)                654879.81
4183306.98        0.11237  (17022108)
        654929.81   4183306.98        0.10858  (17022108)                654979.81
4183306.98        0.10618  (17111708)
        655029.81   4183306.98        0.10425  (17111708)                655079.81
4183306.98        0.10304  (17022708)
        655129.81   4183306.98        0.10290  (17022708)                652679.81
4183356.98        0.34300  (17122509)
        652729.81   4183356.98        0.35433  (17010909)                652779.81
4183356.98        0.38649  (17122609)
        652829.81   4183356.98        0.45785  (17122609)                652879.81
4183356.98        0.53407  (17122609)
        652929.81   4183356.98        0.61045  (17122609)                652979.81
4183356.98        0.67943  (17122609)
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        653029.81   4183356.98        0.72947  (17122609)              653079.81
4183356.98        0.74560  (17122609)
        653129.81   4183356.98        0.71302  (17122609)              653179.81
4183356.98        0.62505  (17122609)
        653229.81   4183356.98        0.58854  (17121808)              653279.81
4183356.98        0.75135  (17122909)
        653329.81   4183356.98        0.87477  (17122909)              653379.81
4183356.98        0.90366  (17122909)
        653429.81   4183356.98        0.82158  (17122909)              653479.81
4183356.98        0.83482  (17121208)
        653529.81   4183356.98        0.75402  (17121208)              653579.81
4183356.98        0.65598  (17030308)
        653629.81   4183356.98        0.74008  (17030308)              653679.81
4183356.98        0.76475  (17030308)
        653729.81   4183356.98        0.73286  (17030308)              653779.81
4183356.98        0.67706  (17010609)
        653829.81   4183356.98        0.59991  (17010609)              653879.81
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        653929.81   4183356.98        0.55152  (17110708)              653979.81
4183356.98        0.49372  (17011608)
        654029.81   4183356.98        0.47560  (17011608)              654079.81
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        654129.81   4183356.98        0.44764  (17022408)              654179.81
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        654229.81   4183356.98        0.38646  (17022408)              654279.81
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        654329.81   4183356.98        0.30941  (17122709)              654379.81
4183356.98        0.30854  (17122709)
        654429.81   4183356.98        0.30221  (17122709)              654479.81
4183356.98        0.29069  (17122709)
        654529.81   4183356.98        0.27477  (17122709)              654579.81
4183356.98        0.25548  (17122709)
        654629.81   4183356.98        0.23395  (17122709)              654679.81
4183356.98        0.21131  (17122709)
        654729.81   4183356.98        0.18854  (17122709)              654779.81
4183356.98        0.16640  (17122709)
        654829.81   4183356.98        0.14546  (17122709)              654879.81
4183356.98        0.12740  (17113008)
        654929.81   4183356.98        0.11292  (17113008)              654979.81
4183356.98        0.09978  (17113008)
        655029.81   4183356.98        0.09661  (17022108)              655079.81
4183356.98        0.09380  (17022108)
        655129.81   4183356.98        0.09081  (17022108)              652679.81
4183406.98        0.34517  (17122609)
        652729.81   4183406.98        0.40204  (17122609)              652779.81
4183406.98        0.46120  (17122609)
        652829.81   4183406.98        0.51908  (17122609)              652879.81
4183406.98        0.57037  (17122609)
        652929.81   4183406.98        0.60794  (17122609)              652979.81
4183406.98        0.62289  (17122609)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653629.81	4183406.98	0.66441	(17030308)	653679.81	4183406.98	0.68869	(17030308)
653729.81	4183406.98	0.66008	(17030308)	653779.81	4183406.98	0.61744	(17010609)
653829.81	4183406.98	0.55121	(17010609)	653879.81	4183406.98	0.52644	(17110708)
653929.81	4183406.98	0.51063	(17110708)	653979.81	4183406.98	0.46679	(17110708)
654029.81	4183406.98	0.44431	(17011608)	654079.81	4183406.98	0.41729	(17011608)
654129.81	4183406.98	0.40900	(17022408)	654179.81	4183406.98	0.40387	(17022408)
654229.81	4183406.98	0.38315	(17022408)	654279.81	4183406.98	0.34780	(17022408)
654329.81	4183406.98	0.30179	(17022408)	654379.81	4183406.98	0.27391	(17122709)

654429.81 4183406.98 0.27622 (17122709) 654479.81
4183406.98 0.27394 (17122709)
654529.81 4183406.98 0.26713 (17122709) 654579.81
4183406.98 0.25626 (17122709)
654629.81 4183406.98 0.24202 (17122709) 654679.81
4183406.98 0.22527 (17122709)
654729.81 4183406.98 0.20690 (17122709) 654779.81
4183406.98 0.18775 (17122709)
654829.81 4183406.98 0.16852 (17122709) 654879.81
4183406.98 0.14979 (17122709)
654929.81 4183406.98 0.13200 (17122709) 654979.81
4183406.98 0.11617 (17113008)
655029.81 4183406.98 0.10382 (17113008) 655079.81
4183406.98 0.09249 (17113008)
655129.81 4183406.98 0.08613 (17022108) 652679.81
4183456.98 0.40381 (17122609)
652729.81 4183456.98 0.44921 (17122609) 652779.81
4183456.98 0.48909 (17122609)
652829.81 4183456.98 0.51864 (17122609) 652879.81
4183456.98 0.53220 (17122609)
652929.81 4183456.98 0.52421 (17122609) 652979.81
4183456.98 0.49103 (17122609)
653029.81 4183456.98 0.43215 (17122609) 653079.81
4183456.98 0.42128 (17121808)
653129.81 4183456.98 0.42976 (17122909) 653179.81
4183456.98 0.53873 (17122909)
653229.81 4183456.98 0.62687 (17122909) 653279.81
4183456.98 0.66947 (17122909)
653329.81 4183456.98 0.65023 (17122909) 653379.81
4183456.98 0.62297 (17121208)
653429.81 4183456.98 0.63439 (17121208) 653479.81
4183456.98 0.58435 (17121208)
653529.81 4183456.98 0.48734 (17121208) 653579.81
4183456.98 0.53422 (17030308)
653629.81 4183456.98 0.60344 (17030308) 653679.81
4183456.98 0.62587 (17030308)
653729.81 4183456.98 0.59948 (17030308) 653779.81
4183456.98 0.56732 (17010609)
653829.81 4183456.98 0.51012 (17010609) 653879.81
4183456.98 0.47738 (17110708)
653929.81 4183456.98 0.47234 (17110708) 653979.81
4183456.98 0.44280 (17110708)
654029.81 4183456.98 0.41088 (17011608) 654079.81
4183456.98 0.39880 (17011608)
654129.81 4183456.98 0.36715 (17022408) 654179.81
4183456.98 0.37332 (17022408)
654229.81 4183456.98 0.36712 (17022408) 654279.81
4183456.98 0.34749 (17022408)
654329.81 4183456.98 0.31577 (17022408) 654379.81
4183456.98 0.27542 (17022408)

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        654429.81   4183456.98        0.24562  (17010908)               654479.81
4183456.98        0.24752  (17122709)
        654529.81   4183456.98        0.24822  (17122709)               654579.81
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        654629.81   4183456.98        0.23809  (17122709)               654679.81
4183456.98        0.22798  (17122709)
        654729.81   4183456.98        0.21528  (17122709)               654779.81
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        654829.81   4183456.98        0.18485  (17122709)               654879.81
4183456.98        0.16845  (17122709)
        654929.81   4183456.98        0.15200  (17122709)               654979.81
4183456.98        0.13596  (17122709)
        655029.81   4183456.98        0.12066  (17122709)               655079.81
4183456.98        0.10659  (17113008)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        655129.81   4183456.98        0.09593  (17113008)               652679.81
4183506.98        0.42622  (17122609)
        652729.81   4183506.98        0.45020  (17122609)               652779.81
4183506.98        0.46243  (17122609)
        652829.81   4183506.98        0.45915  (17122609)               652879.81
4183506.98        0.43759  (17122609)
        652929.81   4183506.98        0.39695  (17122609)               652979.81
4183506.98        0.36515  (17121808)
        653029.81   4183506.98        0.36260  (17121808)               653079.81
4183506.98        0.37924  (17122909)
        653129.81   4183506.98        0.46882  (17122909)               653179.81
4183506.98        0.54365  (17122909)
        653229.81   4183506.98        0.58572  (17122909)               653279.81
4183506.98        0.58101  (17122909)
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653329.81 4183506.98 0.53192 (17121208) 653379.81
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653629.81 4183506.98 0.55245 (17030308) 653679.81
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4183506.98 0.52413 (17010609)
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4183506.98 0.43285 (17110708)
653929.81 4183506.98 0.43631 (17110708) 653979.81
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654029.81 4183506.98 0.37955 (17110708) 654079.81
4183506.98 0.37591 (17011608)
654129.81 4183506.98 0.35698 (17011608) 654179.81
4183506.98 0.33835 (17022408)
654229.81 4183506.98 0.34270 (17022408) 654279.81
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654329.81 4183506.98 0.31736 (17022408) 654379.81
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4183506.98 0.22052 (17122709)
654729.81 4183506.98 0.21378 (17122709) 654779.81
4183506.98 0.20448 (17122709)
654829.81 4183506.98 0.19314 (17122709) 654879.81
4183506.98 0.18032 (17122709)
654929.81 4183506.98 0.16657 (17122709) 654979.81
4183506.98 0.15237 (17122709)
655029.81 4183506.98 0.13815 (17122709) 655079.81
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655129.81 4183506.98 0.11097 (17122709) 652679.81
4183556.98 0.40723 (17122609)
652729.81 4183556.98 0.40668 (17122609) 652779.81
4183556.98 0.39242 (17122609)
652829.81 4183556.98 0.36361 (17122609) 652879.81
4183556.98 0.32109 (17122609)
652929.81 4183556.98 0.32196 (17121808) 652979.81
4183556.98 0.31514 (17121808)
653029.81 4183556.98 0.33850 (17122909) 653079.81
4183556.98 0.41342 (17122909)
653129.81 4183556.98 0.47750 (17122909) 653179.81
4183556.98 0.51731 (17122909)
653229.81 4183556.98 0.52135 (17122909) 653279.81
4183556.98 0.48547 (17122909)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653329.81	4183556.98	0.49848	(17121208)	653379.81	4183556.98	0.50500	(17121208)
653429.81	4183556.98	0.47041	(17121208)	653479.81	4183556.98	0.40229	(17121208)
653529.81	4183556.98	0.37010	(17030308)	653579.81	4183556.98	0.45411	(17030308)
653629.81	4183556.98	0.50941	(17030308)	653679.81	4183556.98	0.52687	(17030308)
653729.81	4183556.98	0.50376	(17030308)	653779.81	4183556.98	0.48674	(17010609)
653829.81	4183556.98	0.44427	(17010609)	653879.81	4183556.98	0.39218	(17110708)
653929.81	4183556.98	0.40234	(17110708)	653979.81	4183556.98	0.39350	(17110708)
654029.81	4183556.98	0.36582	(17110708)	654079.81	4183556.98	0.35038	(17011608)
654129.81	4183556.98	0.34269	(17011608)	654179.81	4183556.98	0.31887	(17011608)
654229.81	4183556.98	0.31327	(17022408)	654279.81	4183556.98	0.31610	(17022408)
654329.81	4183556.98	0.30879	(17022408)	654379.81	4183556.98	0.29148	(17022408)
654429.81	4183556.98	0.26569	(17022408)	654479.81	4183556.98	0.23397	(17022408)
654529.81	4183556.98	0.21292	(17010908)	654579.81	4183556.98	0.20094	(17011109)
654629.81	4183556.98	0.20339	(17122709)	654679.81	4183556.98	0.20501	(17122709)

654729.81 4183556.98 0.20372 (17122709) 654779.81 4183556.98 0.19969 (17122709)
654829.81 4183556.98 0.19323 (17122709) 654879.81 4183556.98 0.18470 (17122709)
654929.81 4183556.98 0.17456 (17122709) 654979.81 4183556.98 0.16324 (17122709)
655029.81 4183556.98 0.15118 (17122709) 655079.81 4183556.98 0.13878 (17122709)
655129.81 4183556.98 0.12638 (17122709) 652679.81 4183606.98 0.35415 (17122609)
652729.81 4183606.98 0.33344 (17122609) 652779.81 4183606.98 0.30170 (17122609)
652829.81 4183606.98 0.28529 (17121808) 652879.81 4183606.98 0.28541 (17121808)
652929.81 4183606.98 0.27608 (17121808) 652979.81 4183606.98 0.30498 (17122909)
653029.81 4183606.98 0.36854 (17122909) 653079.81 4183606.98 0.42382 (17122909)
653129.81 4183606.98 0.46072 (17122909) 653179.81 4183606.98 0.47000 (17122909)
653229.81 4183606.98 0.44703 (17122909) 653279.81 4183606.98 0.43687 (17121208)
653329.81 4183606.98 0.45830 (17121208) 653379.81 4183606.98 0.44558 (17121208)
653429.81 4183606.98 0.40056 (17121208) 653479.81 4183606.98 0.33228 (17121208)
653529.81 4183606.98 0.34791 (17030308) 653579.81 4183606.98 0.42301 (17030308)
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        653529.81   4183656.98        0.32865  (17030308)                653579.81
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653529.81 4183706.98 0.31163 (17030308) 653579.81
4183706.98 0.37215 (17030308)

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        654429.81   4183706.98        0.25397  (17022408)               654479.81
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        654529.81   4183706.98        0.23276  (17022408)               654579.81
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                   PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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4183706.98        0.15934  (17122709)
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        653929.81   4183756.98        0.28514  (17110708)              653979.81
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        654329.81   4183756.98        0.23080  (17011608)              654379.81
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655029.81 4183756.98 0.14852 (17122709) 655079.81
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4183806.98 0.24957 (17121208)
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4183806.98 0.33189 (17030308)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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653929.81 4183806.98 0.26038 (17110708) 653979.81 4183806.98 0.27637 (17110708)
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        652729.81   4183906.98        0.21475  (17122909)               652779.81
4183906.98        0.24157  (17122909)
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653029.81 4183906.98 0.25401 (17122909) 653079.81 4183906.98 0.25767 (17121208)
653129.81 4183906.98 0.27536 (17121208) 653179.81 4183906.98 0.28087 (17121208)
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        654129.81   4183956.98        0.23234  (17110708)               654179.81
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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4181556.98        0.01826  (17121508)
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        653179.81   4181706.98        0.02483  (17020116)                653229.81
4181706.98        0.02765  (17020116)
        653279.81   4181706.98        0.02951  (17020116)                653329.81
4181706.98        0.03003  (17020116)
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653379.81 4181706.98 0.02896 (17020116) 653429.81 4181706.98 0.02764 (17011616)
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654179.81 4181706.98 0.02479 (17011708) 654229.81 4181706.98 0.02530 (17011708)
654279.81 4181706.98 0.02422 (17011708) 654329.81 4181706.98 0.02177 (17011708)
654379.81 4181706.98 0.02144 (17011208) 654429.81 4181706.98 0.02397 (17011208)
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654579.81 4181706.98 0.02588 (17011208) 654629.81 4181706.98 0.02456 (17011208)
654679.81 4181706.98 0.02251 (17011208) 654729.81 4181706.98 0.02195 (17012408)
654779.81 4181706.98 0.02107 (17012408) 654829.81 4181706.98 0.01955 (17012408)
654879.81 4181706.98 0.01895 (17011316) 654929.81 4181706.98 0.01923 (17011316)
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655079.81 4181706.98 0.01847 (17030208) 655129.81 4181706.98 0.01877 (17030208)
652679.81 4181756.98 0.02579c (17121108) 652729.81 4181756.98 0.02492c (17121108)
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652979.81 4181756.98 0.02300 (17121508) 653029.81 4181756.98 0.02351 (17121508)
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653179.81 4181756.98 0.02451 (17020116) 653229.81 4181756.98 0.02778 (17020116)
653279.81 4181756.98 0.03021 (17020116) 653329.81 4181756.98 0.03135 (17020116)

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        653979.81   4181756.98        0.02223  (17011216)                654029.81
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        654279.81   4181756.98        0.02455  (17011708)                654329.81
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        654379.81   4181756.98        0.02430  (17011208)                654429.81
4181756.98        0.02650  (17011208)
        654479.81   4181756.98        0.02762  (17011208)                654529.81
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        654679.81   4181756.98        0.02326  (17012408)                654729.81
4181756.98        0.02245  (17012408)
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        654779.81   4181756.98        0.02090  (17012408)              654829.81
4181756.98        0.02001  (17011316)
        654879.81   4181756.98        0.02035  (17011316)              654929.81
4181756.98        0.02010  (17011316)
        654979.81   4181756.98        0.01936  (17011316)              655029.81
4181756.98        0.01959  (17030208)
        655079.81   4181756.98        0.01985  (17030208)              655129.81
4181756.98        0.01966  (17030208)
        652679.81   4181806.98        0.02746c (17121108)              652729.81
4181806.98        0.02707c (17121108)
        652779.81   4181806.98        0.02610c (17121108)              652829.81
4181806.98        0.02457c (17121108)
        652879.81   4181806.98        0.02252c (17121108)              652929.81
4181806.98        0.02183  (17121508)
        652979.81   4181806.98        0.02340  (17121508)              653029.81
4181806.98        0.02440  (17121508)
        653079.81   4181806.98        0.02466  (17121508)              653129.81
4181806.98        0.02410  (17121508)
        653179.81   4181806.98        0.02403  (17020116)              653229.81
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        653279.81   4181806.98        0.03072  (17020116)              653329.81
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        653379.81   4181806.98        0.03269  (17020116)              653429.81
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        653479.81   4181806.98        0.03272  (17011616)              653529.81
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        653779.81   4181806.98        0.03359  (17011216)              653829.81
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        653879.81   4181806.98        0.03122  (17011216)              653929.81
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        653979.81   4181806.98        0.02333  (17011216)              654029.81
4181806.98        0.02019  (17011708)
        654079.81   4181806.98        0.02421  (17011708)              654129.81
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        654179.81   4181806.98        0.02812  (17011708)              654229.81
4181806.98        0.02722  (17011708)
        654279.81   4181806.98        0.02457  (17011708)              654329.81
4181806.98        0.02443  (17011208)
        654379.81   4181806.98        0.02725  (17011208)              654429.81
4181806.98        0.02893  (17011208)
        654479.81   4181806.98        0.02932  (17011208)              654529.81
4181806.98        0.02846  (17011208)
        654579.81   4181806.98        0.02651  (17011208)              654629.81
4181806.98        0.02467  (17012408)
        654679.81   4181806.98        0.02397  (17012408)              654729.81
4181806.98        0.02239  (17012408)
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4181806.98        0.02052  (17011316)
        654979.81   4181806.98        0.02083  (17030208)               655029.81
4181806.98        0.02103  (17030208)
        655079.81   4181806.98        0.02074  (17030208)               655129.81
4181806.98        0.02004  (17122708)
        652679.81   4181856.98        0.02873c (17121108)               652729.81
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4181856.98        0.02739c (17121108)
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        652979.81   4181856.98        0.02353  (17121508)               653029.81
4181856.98        0.02503  (17121508)
        653079.81   4181856.98        0.02583  (17121508)               653129.81
4181856.98        0.02580  (17121508)
        653179.81   4181856.98        0.02483  (17121508)               653229.81
4181856.98        0.02749  (17020116)
        653279.81   4181856.98        0.03103  (17020116)               653329.81
4181856.98        0.03352  (17020116)
        653379.81   4181856.98        0.03443  (17020116)               653429.81
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        653479.81   4181856.98        0.03351  (17011616)               653529.81
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        653579.81   4181856.98        0.03888  (17011616)               653629.81
4181856.98        0.03823  (17011616)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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653679.81 4181856.98 0.03505 (17011616) 653729.81 4181856.98 0.03361 (17011216)
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653879.81 4181856.98 0.03309 (17011216) 653929.81 4181856.98 0.02915 (17011216)
653979.81 4181856.98 0.02457 (17011216) 654029.81 4181856.98 0.02277 (17011708)
654079.81 4181856.98 0.02678 (17011708) 654129.81 4181856.98 0.02923 (17011708)
654179.81 4181856.98 0.02959 (17011708) 654229.81 4181856.98 0.02779 (17011708)
654279.81 4181856.98 0.02430 (17011208) 654329.81 4181856.98 0.02780 (17011208)
654379.81 4181856.98 0.03016 (17011208) 654429.81 4181856.98 0.03111 (17011208)
654479.81 4181856.98 0.03061 (17011208) 654529.81 4181856.98 0.02881 (17011208)
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654679.81 4181856.98 0.02405 (17012408) 654729.81 4181856.98 0.02252 (17011316)
654779.81 4181856.98 0.02299 (17011316) 654829.81 4181856.98 0.02271 (17011316)
654879.81 4181856.98 0.02181 (17011316) 654929.81 4181856.98 0.02219 (17030208)
654979.81 4181856.98 0.02232 (17030208) 655029.81 4181856.98 0.02191 (17030208)
655079.81 4181856.98 0.02114 (17122708) 655129.81 4181856.98 0.02029 (17122708)
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653179.81 4181906.98 0.02689 (17121508) 653229.81 4181906.98 0.02706 (17020116)
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653479.81 4181906.98 0.03428 (17011616) 653529.81 4181906.98 0.03846 (17011616)
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        653679.81   4181906.98        0.03750  (17011616)                653729.81
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        654079.81   4181906.98        0.02950  (17011708)                654129.81
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        654379.81   4181906.98        0.03290  (17011208)                654429.81
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        654479.81   4181906.98        0.03133  (17011208)                654529.81
4181906.98        0.02855  (17011208)
        654579.81   4181906.98        0.02747  (17012408)                654629.81
4181906.98        0.02590  (17012408)
        654679.81   4181906.98        0.02400  (17011316)                654729.81
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4181906.98        0.02232  (17122708)
        655079.81   4181906.98        0.02126  (17122708)                655129.81
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        652779.81   4182006.98        0.03298c (17121108)               652829.81
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        652879.81   4182006.98        0.03411c (17121108)               652929.81
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4182006.98        0.03023  (17121508)
        653279.81   4182006.98        0.03067  (17020116)               653329.81
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        653479.81   4182006.98        0.03906  (17020116)               653529.81
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4182006.98        0.04567  (17011616)
        653679.81   4182006.98        0.04315  (17011616)               653729.81
4182006.98        0.04053  (17011216)
        653779.81   4182006.98        0.04348  (17011216)               653829.81
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        653879.81   4182006.98        0.04038  (17011216)               653929.81
4182006.98        0.03527  (17011216)
        653979.81   4182006.98        0.02951  (17011216)               654029.81
4182006.98        0.03215  (17011708)
        654079.81   4182006.98        0.03518  (17011708)               654129.81
4182006.98        0.03523  (17011708)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
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654279.81	4182006.98	0.03624	(17011208)	654329.81	4182006.98	0.03772	(17011208)
654379.81	4182006.98	0.03707	(17011208)	654429.81	4182006.98	0.03452	(17011208)
654479.81	4182006.98	0.03170	(17012408)	654529.81	4182006.98	0.03028	(17012408)
654579.81	4182006.98	0.02755	(17011316)	654629.81	4182006.98	0.02835	(17011316)
654679.81	4182006.98	0.02802	(17011316)	654729.81	4182006.98	0.02675	(17011316)
654779.81	4182006.98	0.02723	(17030208)	654829.81	4182006.98	0.02701	(17030208)
654879.81	4182006.98	0.02604	(17030208)	654929.81	4182006.98	0.02493	(17122708)
654979.81	4182006.98	0.02337	(17122708)	655029.81	4182006.98	0.02146	(17122708)
655079.81	4182006.98	0.01933	(17122708)	655129.81	4182006.98	0.01736	(17022308)
652679.81	4182056.98	0.02858c	(17121108)	652729.81	4182056.98	0.03112c	(17121108)
652779.81	4182056.98	0.03330c	(17121108)	652829.81	4182056.98	0.03498c	(17121108)
652879.81	4182056.98	0.03600c	(17121108)	652929.81	4182056.98	0.03623c	(17121108)
652979.81	4182056.98	0.03556c	(17121108)	653029.81	4182056.98	0.03392c	(17121108)
653079.81	4182056.98	0.03132c	(17121108)	653129.81	4182056.98	0.02989	(17121508)
653179.81	4182056.98	0.03163	(17121508)	653229.81	4182056.98	0.03229	(17121508)
653279.81	4182056.98	0.03164	(17121508)	653329.81	4182056.98	0.03520	(17020116)
653379.81	4182056.98	0.03942	(17020116)	653429.81	4182056.98	0.04197	(17020116)
653479.81	4182056.98	0.04202	(17020116)	653529.81	4182056.98	0.04246	(17011616)
653579.81	4182056.98	0.04691	(17011616)	653629.81	4182056.98	0.04850	(17011616)
653679.81	4182056.98	0.04640	(17011616)	653729.81	4182056.98	0.04343	(17011216)
653779.81	4182056.98	0.04682	(17011216)	653829.81	4182056.98	0.04688	(17011216)
653879.81	4182056.98	0.04359	(17011216)	653929.81	4182056.98	0.03799	(17011216)

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        653979.81   4182056.98        0.03172  (17011216)               654029.81
4182056.98        0.03577  (17011708)
        654079.81   4182056.98        0.03799  (17011708)               654129.81
4182056.98        0.03669  (17011708)
        654179.81   4182056.98        0.03292  (17011208)               654229.81
4182056.98        0.03763  (17011208)
        654279.81   4182056.98        0.04019  (17011208)               654329.81
4182056.98        0.04027  (17011208)
        654379.81   4182056.98        0.03804  (17011208)               654429.81
4182056.98        0.03415  (17012408)
        654479.81   4182056.98        0.03289  (17012408)               654529.81
4182056.98        0.03003  (17012408)
        654579.81   4182056.98        0.03066  (17011316)               654629.81
4182056.98        0.03032  (17011316)
        654679.81   4182056.98        0.02888  (17011316)               654729.81
4182056.98        0.02932  (17030208)
        654779.81   4182056.98        0.02891  (17030208)               654829.81
4182056.98        0.02772  (17122708)
        654879.81   4182056.98        0.02638  (17122708)               654929.81
4182056.98        0.02450  (17122708)
        654979.81   4182056.98        0.02226  (17122708)               655029.81
4182056.98        0.01983  (17122708)
        655079.81   4182056.98        0.01887  (17022308)               655129.81
4182056.98        0.01892  (17022308)
        652679.81   4182106.98        0.02715c (17121108)               652729.81
4182106.98        0.03015c (17121108)
        652779.81   4182106.98        0.03292c (17121108)               652829.81
4182106.98        0.03532c (17121108)
        652879.81   4182106.98        0.03717c (17121108)               652929.81
4182106.98        0.03832c (17121108)
        652979.81   4182106.98        0.03859c (17121108)               653029.81
4182106.98        0.03785c (17121108)
        653079.81   4182106.98        0.03602c (17121108)               653129.81
4182106.98        0.03311c (17121108)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                   PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653179.81	4182106.98	0.03246	(17121508)	653229.81	4182106.98	0.03400	(17121508)
653279.81	4182106.98	0.03426	(17121508)	653329.81	4182106.98	0.03499	(17020116)
653379.81	4182106.98	0.04000	(17020116)	653429.81	4182106.98	0.04361	(17020116)
653479.81	4182106.98	0.04486	(17020116)	653529.81	4182106.98	0.04377	(17011616)
653579.81	4182106.98	0.04909	(17011616)	653629.81	4182106.98	0.05153	(17011616)
653679.81	4182106.98	0.04997	(17011616)	653729.81	4182106.98	0.04673	(17011216)
653779.81	4182106.98	0.05069	(17011216)	653829.81	4182106.98	0.05092	(17011216)
653879.81	4182106.98	0.04736	(17011216)	653929.81	4182106.98	0.04120	(17011216)
653979.81	4182106.98	0.03490	(17011708)	654029.81	4182106.98	0.03958	(17011708)
654079.81	4182106.98	0.04063	(17011708)	654129.81	4182106.98	0.03767	(17011708)
654179.81	4182106.98	0.03866	(17011208)	654229.81	4182106.98	0.04257	(17011208)
654279.81	4182106.98	0.04368	(17011208)	654329.81	4182106.98	0.04198	(17011208)
654379.81	4182106.98	0.03798	(17011208)	654429.81	4182106.98	0.03585	(17012408)
654479.81	4182106.98	0.03288	(17012408)	654529.81	4182106.98	0.03333	(17011316)
654579.81	4182106.98	0.03297	(17011316)	654629.81	4182106.98	0.03133	(17011316)
654679.81	4182106.98	0.03167	(17030208)	654729.81	4182106.98	0.03101	(17030208)
654779.81	4182106.98	0.02964	(17122708)	654829.81	4182106.98	0.02793	(17122708)
654879.81	4182106.98	0.02567	(17122708)	654929.81	4182106.98	0.02306	(17122708)
654979.81	4182106.98	0.02030	(17122708)	655029.81	4182106.98	0.02048	(17022308)
655079.81	4182106.98	0.02029	(17022308)	655129.81	4182106.98	0.01976	(17022308)
652679.81	4182156.98	0.02525c	(17121108)	652729.81	4182156.98	0.02859c	(17121108)
652779.81	4182156.98	0.03185c	(17121108)	652829.81	4182156.98	0.03489c	(17121108)

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        652879.81   4182156.98        0.03755c (17121108)               652929.81
4182156.98        0.03962c (17121108)
        652979.81   4182156.98        0.04092c (17121108)               653029.81
4182156.98        0.04125c (17121108)
        653079.81   4182156.98        0.04044c (17121108)               653129.81
4182156.98        0.03839c (17121108)
        653179.81   4182156.98        0.03511c (17121108)               653229.81
4182156.98        0.03526  (17121508)
        653279.81   4182156.98        0.03652  (17121508)               653329.81
4182156.98        0.03624  (17121508)
        653379.81   4182156.98        0.04029  (17020116)               653429.81
4182156.98        0.04494  (17020116)
        653479.81   4182156.98        0.04749  (17020116)               653529.81
4182156.98        0.04685  (17020116)
        653579.81   4182156.98        0.05132  (17011616)               653629.81
4182156.98        0.05474  (17011616)
        653679.81   4182156.98        0.05391  (17011616)               653729.81
4182156.98        0.05052  (17011216)
        653779.81   4182156.98        0.05519  (17011216)               653829.81
4182156.98        0.05569  (17011216)
        653879.81   4182156.98        0.05185  (17011216)               653929.81
4182156.98        0.04500  (17011216)
        653979.81   4182156.98        0.03955  (17011708)               654029.81
4182156.98        0.04349  (17011708)
        654079.81   4182156.98        0.04294  (17011708)               654129.81
4182156.98        0.03917  (17011208)
        654179.81   4182156.98        0.04472  (17011208)               654229.81
4182156.98        0.04722  (17011208)
        654279.81   4182156.98        0.04634  (17011208)               654329.81
4182156.98        0.04254  (17011208)
        654379.81   4182156.98        0.03920  (17012408)               654429.81
4182156.98        0.03617  (17012408)
        654479.81   4182156.98        0.03646  (17011316)               654529.81
4182156.98        0.03607  (17011316)
        654579.81   4182156.98        0.03418  (17011316)               654629.81
4182156.98        0.03434  (17030208)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654679.81	4182156.98	0.03337	(17030208)	654729.81	4182156.98	0.03173	(17122708)
654779.81	4182156.98	0.02959	(17122708)	654829.81	4182156.98	0.02687	(17122708)
654879.81	4182156.98	0.02383	(17122708)	654929.81	4182156.98	0.02221	(17022308)
654979.81	4182156.98	0.02215	(17022308)	655029.81	4182156.98	0.02167	(17022308)
655079.81	4182156.98	0.02083	(17022308)	655129.81	4182156.98	0.01972	(17022308)
652679.81	4182206.98	0.02347	(17020108)	652729.81	4182206.98	0.02652c	(17121108)
652779.81	4182206.98	0.03015c	(17121108)	652829.81	4182206.98	0.03373c	(17121108)
652879.81	4182206.98	0.03708c	(17121108)	652929.81	4182206.98	0.04003c	(17121108)
652979.81	4182206.98	0.04236c	(17121108)	653029.81	4182206.98	0.04385c	(17121108)
653079.81	4182206.98	0.04425c	(17121108)	653129.81	4182206.98	0.04337c	(17121108)
653179.81	4182206.98	0.04108c	(17121108)	653229.81	4182206.98	0.03736c	(17121108)
653279.81	4182206.98	0.03831	(17121508)	653329.81	4182206.98	0.03919	(17121508)
653379.81	4182206.98	0.04029	(17020116)	653429.81	4182206.98	0.04595	(17020116)
653479.81	4182206.98	0.04984	(17020116)	653529.81	4182206.98	0.05070	(17020116)
653579.81	4182206.98	0.05361	(17011616)	653629.81	4182206.98	0.05816	(17011616)
653679.81	4182206.98	0.05824	(17011616)	653729.81	4182206.98	0.05491	(17011216)
653779.81	4182206.98	0.06048	(17011216)	653829.81	4182206.98	0.06136	(17011216)
653879.81	4182206.98	0.05722	(17011216)	653929.81	4182206.98	0.04953	(17011216)
653979.81	4182206.98	0.04463	(17011708)	654029.81	4182206.98	0.04735	(17011708)
654079.81	4182206.98	0.04470	(17011708)	654129.81	4182206.98	0.04646	(17011208)
654179.81	4182206.98	0.05077	(17011208)	654229.81	4182206.98	0.05114	(17011208)

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        654279.81   4182206.98        0.04775  (17011208)               654329.81
4182206.98        0.04301  (17012408)
        654379.81   4182206.98        0.03999  (17012408)               654429.81
4182206.98        0.04014  (17011316)
        654479.81   4182206.98        0.03974  (17011316)               654529.81
4182206.98        0.03753  (17011316)
        654579.81   4182206.98        0.03737  (17030208)               654629.81
4182206.98        0.03599  (17030208)
        654679.81   4182206.98        0.03403  (17122708)               654729.81
4182206.98        0.03134  (17122708)
        654779.81   4182206.98        0.02808  (17122708)               654829.81
4182206.98        0.02456  (17122708)
        654879.81   4182206.98        0.02427  (17022308)               654929.81
4182206.98        0.02388  (17022308)
        654979.81   4182206.98        0.02303  (17022308)               655029.81
4182206.98        0.02183  (17022308)
        655079.81   4182206.98        0.02038  (17022308)               655129.81
4182206.98        0.01877  (17022308)
        652679.81   4182256.98        0.02451  (17020108)               652729.81
4182256.98        0.02514  (17020108)
        652779.81   4182256.98        0.02792c (17121108)               652829.81
4182256.98        0.03188c (17121108)
        652879.81   4182256.98        0.03580c (17121108)               652929.81
4182256.98        0.03951c (17121108)
        652979.81   4182256.98        0.04281c (17121108)               653029.81
4182256.98        0.04545c (17121108)
        653079.81   4182256.98        0.04717c (17121108)               653129.81
4182256.98        0.04768c (17121108)
        653179.81   4182256.98        0.04673c (17121108)               653229.81
4182256.98        0.04416c (17121108)
        653279.81   4182256.98        0.03992c (17121108)               653329.81
4182256.98        0.04165  (17121508)
        653379.81   4182256.98        0.04202  (17121508)               653429.81
4182256.98        0.04662  (17020116)
        653479.81   4182256.98        0.05185  (17020116)               653529.81
4182256.98        0.05437  (17020116)
        653579.81   4182256.98        0.05594  (17011616)               653629.81
4182256.98        0.06178  (17011616)
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*** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   PAREA1   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653679.81	4182256.98	0.06301	(17011616)	653729.81	4182256.98	0.06005	(17011216)
653779.81	4182256.98	0.06678	(17011216)	653829.81	4182256.98	0.06820	(17011216)
653879.81	4182256.98	0.06371	(17011216)	653929.81	4182256.98	0.05496	(17011216)
653979.81	4182256.98	0.05007	(17011708)	654029.81	4182256.98	0.05097	(17011708)
654079.81	4182256.98	0.04754	(17011208)	654129.81	4182256.98	0.05417	(17011208)
654179.81	4182256.98	0.05631	(17011208)	654229.81	4182256.98	0.05376	(17011208)
654279.81	4182256.98	0.04751	(17011208)	654329.81	4182256.98	0.04447	(17012408)
654379.81	4182256.98	0.04453	(17011316)	654429.81	4182256.98	0.04413	(17011316)
654479.81	4182256.98	0.04152	(17011316)	654529.81	4182256.98	0.04085	(17030208)
654579.81	4182256.98	0.03893	(17030208)	654629.81	4182256.98	0.03654	(17122708)
654679.81	4182256.98	0.03319	(17122708)	654729.81	4182256.98	0.02930	(17122708)
654779.81	4182256.98	0.02668	(17022308)	654829.81	4182256.98	0.02643	(17022308)
654879.81	4182256.98	0.02561	(17022308)	654929.81	4182256.98	0.02432	(17022308)
654979.81	4182256.98	0.02270	(17022308)	655029.81	4182256.98	0.02087	(17022308)
655079.81	4182256.98	0.01894	(17022308)	655129.81	4182256.98	0.01712	(17122508)
652679.81	4182306.98	0.02478	(17020108)	652729.81	4182306.98	0.02599	(17020108)
652779.81	4182306.98	0.02690	(17020108)	652829.81	4182306.98	0.02944c	(17121108)
652879.81	4182306.98	0.03378c	(17121108)	652929.81	4182306.98	0.03810c	(17121108)
652979.81	4182306.98	0.04222c	(17121108)	653029.81	4182306.98	0.04592c	(17121108)
653079.81	4182306.98	0.04894c	(17121108)	653129.81	4182306.98	0.05095c	(17121108)

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        653179.81   4182306.98        0.05161c (17121108)               653229.81
4182306.98        0.05060c (17121108)
        653279.81   4182306.98        0.04770c (17121108)               653329.81
4182306.98        0.04348  (17121508)
        653379.81   4182306.98        0.04535  (17121508)               653429.81
4182306.98        0.04696  (17020116)
        653479.81   4182306.98        0.05348  (17020116)               653529.81
4182306.98        0.05775  (17020116)
        653579.81   4182306.98        0.05833  (17011616)               653629.81
4182306.98        0.06560  (17011616)
        653679.81   4182306.98        0.06825  (17011616)               653729.81
4182306.98        0.06610  (17011216)
        653779.81   4182306.98        0.07433  (17011216)               653829.81
4182306.98        0.07654  (17011216)
        653879.81   4182306.98        0.07167  (17011216)               653929.81
4182306.98        0.06150  (17011216)
        653979.81   4182306.98        0.05576  (17011708)               654029.81
4182306.98        0.05407  (17011708)
        654079.81   4182306.98        0.05711  (17011208)               654129.81
4182306.98        0.06176  (17011208)
        654179.81   4182306.98        0.06063  (17011208)               654229.81
4182306.98        0.05450  (17011208)
        654279.81   4182306.98        0.04975  (17012408)               654329.81
4182306.98        0.04981  (17011316)
        654379.81   4182306.98        0.04942  (17011316)               654429.81
4182306.98        0.04631  (17011316)
        654479.81   4182306.98        0.04486  (17030208)               654529.81
4182306.98        0.04243  (17122708)
        654579.81   4182306.98        0.03928  (17122708)               654629.81
4182306.98        0.03512  (17122708)
        654679.81   4182306.98        0.03048  (17122708)               654729.81
4182306.98        0.02942  (17022308)
        654779.81   4182306.98        0.02866  (17022308)               654829.81
4182306.98        0.02729  (17022308)
        654879.81   4182306.98        0.02548  (17022308)               654929.81
4182306.98        0.02339  (17022308)
        654979.81   4182306.98        0.02116  (17022308)               655029.81
4182306.98        0.01914  (17122508)
        655079.81   4182306.98        0.01939  (17122508)               655129.81
4182306.98        0.01946  (17122508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652679.81	4182356.98	0.02558	(17120608)	652729.81	4182356.98	0.02596	(17020108)
652779.81	4182356.98	0.02750	(17020108)	652829.81	4182356.98	0.02874	(17020108)
652879.81	4182356.98	0.03114c	(17121108)	652929.81	4182356.98	0.03588c	(17121108)
652979.81	4182356.98	0.04065c	(17121108)	653029.81	4182356.98	0.04524c	(17121108)
653079.81	4182356.98	0.04943c	(17121108)	653129.81	4182356.98	0.05290c	(17121108)
653179.81	4182356.98	0.05528c	(17121108)	653229.81	4182356.98	0.05616c	(17121108)
653279.81	4182356.98	0.05512c	(17121108)	653329.81	4182356.98	0.05185c	(17121108)
653379.81	4182356.98	0.04790	(17121508)	653429.81	4182356.98	0.04937	(17121508)
653479.81	4182356.98	0.05471	(17020116)	653529.81	4182356.98	0.06075	(17020116)
653579.81	4182356.98	0.06326	(17020116)	653629.81	4182356.98	0.06965	(17011616)
653679.81	4182356.98	0.07400	(17011616)	653729.81	4182356.98	0.07332	(17011216)
653779.81	4182356.98	0.08351	(17011216)	653829.81	4182356.98	0.08688	(17011216)
653879.81	4182356.98	0.08156	(17011216)	653929.81	4182356.98	0.06943	(17011216)
653979.81	4182356.98	0.06149	(17011708)	654029.81	4182356.98	0.05917	(17011208)
654079.81	4182356.98	0.06724	(17011208)	654129.81	4182356.98	0.06842	(17011208)
654179.81	4182356.98	0.06289	(17011208)	654229.81	4182356.98	0.05605	(17012408)
654279.81	4182356.98	0.05628	(17011316)	654329.81	4182356.98	0.05593	(17011316)
654379.81	4182356.98	0.05215	(17011316)	654429.81	4182356.98	0.04952	(17030208)
654479.81	4182356.98	0.04642	(17122708)	654529.81	4182356.98	0.04227	(17122708)

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        654579.81   4182356.98        0.03711  (17122708)                654629.81
4182356.98        0.03292  (17022308)
        654679.81   4182356.98        0.03231  (17022308)                654729.81
4182356.98        0.03088  (17022308)
        654779.81   4182356.98        0.02885  (17022308)                654829.81
4182356.98        0.02643  (17022308)
        654879.81   4182356.98        0.02382  (17022308)                654929.81
4182356.98        0.02156  (17122508)
        654979.81   4182356.98        0.02177  (17122508)                655029.81
4182356.98        0.02177  (17122508)
        655079.81   4182356.98        0.02157  (17122508)                655129.81
4182356.98        0.02121  (17122508)
        652679.81   4182406.98        0.02765  (17120608)                652729.81
4182406.98        0.02815  (17120608)
        652779.81   4182406.98        0.02842  (17120608)                652829.81
4182406.98        0.02902  (17020108)
        652879.81   4182406.98        0.03060  (17020108)                652929.81
4182406.98        0.03299c (17121108)
        652979.81   4182406.98        0.03821c (17121108)                653029.81
4182406.98        0.04350c (17121108)
        653079.81   4182406.98        0.04865c (17121108)                653129.81
4182406.98        0.05341c (17121108)
        653179.81   4182406.98        0.05744c (17121108)                653229.81
4182406.98        0.06032c (17121108)
        653279.81   4182406.98        0.06153c (17121108)                653329.81
4182406.98        0.06052c (17121108)
        653379.81   4182406.98        0.05685c (17121108)                653429.81
4182406.98        0.05306  (17121508)
        653479.81   4182406.98        0.05561  (17020116)                653529.81
4182406.98        0.06333  (17020116)
        653579.81   4182406.98        0.06818  (17020116)                653629.81
4182406.98        0.07395  (17011616)
        653679.81   4182406.98        0.08032  (17011616)                653729.81
4182406.98        0.08206  (17011216)
        653779.81   4182406.98        0.09488  (17011216)                653829.81
4182406.98        0.09992  (17011216)
        653879.81   4182406.98        0.09404  (17011216)                653929.81
4182406.98        0.07908  (17011216)
        653979.81   4182406.98        0.06695  (17011708)                654029.81
4182406.98        0.07230  (17011208)
        654079.81   4182406.98        0.07705  (17011208)                654129.81
4182406.98        0.07299  (17011208)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE 109
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654179.81	4182406.98	0.06365	(17012408)	654229.81	4182406.98	0.06436	(17011316)
654279.81	4182406.98	0.06408	(17011316)	654329.81	4182406.98	0.05941	(17011316)
654379.81	4182406.98	0.05498	(17030208)	654429.81	4182406.98	0.05094	(17122708)
654479.81	4182406.98	0.04550	(17122708)	654529.81	4182406.98	0.03911	(17122708)
654579.81	4182406.98	0.03673	(17022308)	654629.81	4182406.98	0.03528	(17022308)
654679.81	4182406.98	0.03300	(17022308)	654729.81	4182406.98	0.03018	(17022308)
654779.81	4182406.98	0.02708	(17022308)	654829.81	4182406.98	0.02453	(17122508)
654879.81	4182406.98	0.02467	(17122508)	654929.81	4182406.98	0.02455	(17122508)
654979.81	4182406.98	0.02419	(17122508)	655029.81	4182406.98	0.02365	(17122508)
655079.81	4182406.98	0.02295	(17122508)	655129.81	4182406.98	0.02213	(17122508)
652679.81	4182456.98	0.02898	(17120608)	652729.81	4182456.98	0.03003	(17120608)
652779.81	4182456.98	0.03089	(17120608)	652829.81	4182456.98	0.03151	(17120608)
652879.81	4182456.98	0.03184	(17120608)	652929.81	4182456.98	0.03256	(17020108)
652979.81	4182456.98	0.03510c	(17121108)	653029.81	4182456.98	0.04085c	(17121108)
653079.81	4182456.98	0.04672c	(17121108)	653129.81	4182456.98	0.05252c	(17121108)
653179.81	4182456.98	0.05800c	(17121108)	653229.81	4182456.98	0.06276c	(17121108)
653279.81	4182456.98	0.06631c	(17121108)	653329.81	4182456.98	0.06799c	(17121108)
653379.81	4182456.98	0.06707c	(17121108)	653429.81	4182456.98	0.06297c	(17121108)

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        653479.81   4182456.98        0.05911  (17121508)               653529.81
4182456.98        0.06552  (17020116)
        653579.81   4182456.98        0.07275  (17020116)               653629.81
4182456.98        0.07856  (17011616)
        653679.81   4182456.98        0.08729  (17011616)               653729.81
4182456.98        0.09284  (17011216)
        653779.81   4182456.98        0.10921  (17011216)               653829.81
4182456.98        0.11674  (17011216)
        653879.81   4182456.98        0.11008  (17011216)               653929.81
4182456.98        0.09086  (17011216)
        653979.81   4182456.98        0.07623  (17011208)               654029.81
4182456.98        0.08629  (17011208)
        654079.81   4182456.98        0.08513  (17011208)               654129.81
4182456.98        0.07412  (17011208)
        654179.81   4182456.98        0.07467  (17011316)               654229.81
4182456.98        0.07452  (17011316)
        654279.81   4182456.98        0.06862  (17011316)               654329.81
4182456.98        0.06144  (17030208)
        654379.81   4182456.98        0.05607  (17122708)               654429.81
4182456.98        0.04894  (17122708)
        654479.81   4182456.98        0.04213  (17022308)               654529.81
4182456.98        0.04075  (17022308)
        654579.81   4182456.98        0.03819  (17022308)               654629.81
4182456.98        0.03487  (17022308)
        654679.81   4182456.98        0.03115  (17022308)               654729.81
4182456.98        0.02822  (17122508)
        654779.81   4182456.98        0.02825  (17122508)               654829.81
4182456.98        0.02794  (17122508)
        654879.81   4182456.98        0.02735  (17122508)               654929.81
4182456.98        0.02655  (17122508)
        654979.81   4182456.98        0.02557  (17122508)               655029.81
4182456.98        0.02447  (17122508)
        655079.81   4182456.98        0.02328  (17122508)               655129.81
4182456.98        0.02205  (17122508)
        652679.81   4182506.98        0.03089  (17021308)               652729.81
4182506.98        0.03109  (17021308)
        652779.81   4182506.98        0.03246  (17120608)               652829.81
4182506.98        0.03375  (17120608)
        652879.81   4182506.98        0.03481  (17120608)               652929.81
4182506.98        0.03562  (17120608)
        652979.81   4182506.98        0.03611  (17120608)               653029.81
4182506.98        0.03750c (17121108)
        653079.81   4182506.98        0.04385c (17121108)               653129.81
4182506.98        0.05041c (17121108)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653179.81	4182506.98	0.05700c	(17121108)	653229.81	4182506.98	0.06336c	(17121108)
653279.81	4182506.98	0.06907c	(17121108)	653329.81	4182506.98	0.07352c	(17121108)
653379.81	4182506.98	0.07586c	(17121108)	653429.81	4182506.98	0.07519c	(17121108)
653479.81	4182506.98	0.07058c	(17121108)	653529.81	4182506.98	0.06730	(17020116)
653579.81	4182506.98	0.07694	(17020116)	653629.81	4182506.98	0.08361	(17011616)
653679.81	4182506.98	0.09503	(17011616)	653729.81	4182506.98	0.10646	(17011216)
653779.81	4182506.98	0.12776	(17011216)	653829.81	4182506.98	0.13899	(17011216)
653879.81	4182506.98	0.13115	(17011216)	653929.81	4182506.98	0.10519	(17011216)
653979.81	4182506.98	0.09546	(17011208)	654029.81	4182506.98	0.09960	(17011208)
654079.81	4182506.98	0.08944	(17011208)	654129.81	4182506.98	0.08826	(17011316)
654179.81	4182506.98	0.08834	(17011316)	654229.81	4182506.98	0.08058	(17011316)
654279.81	4182506.98	0.06922	(17122708)	654329.81	4182506.98	0.06189	(17122708)
654379.81	4182506.98	0.05256	(17122708)	654429.81	4182506.98	0.04769	(17022308)
654479.81	4182506.98	0.04484	(17022308)	654529.81	4182506.98	0.04087	(17022308)
654579.81	4182506.98	0.03632	(17022308)	654629.81	4182506.98	0.03291	(17122508)
654679.81	4182506.98	0.03274	(17122508)	654729.81	4182506.98	0.03214	(17122508)
654779.81	4182506.98	0.03120	(17122508)	654829.81	4182506.98	0.03002	(17122508)

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        654879.81   4182506.98        0.02866  (17122508)                654929.81
4182506.98        0.02718  (17122508)
        654979.81   4182506.98        0.02563  (17122508)                655029.81
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        655079.81   4182506.98        0.02250  (17122508)                655129.81
4182506.98        0.02097  (17122508)
        652679.81   4182556.98        0.03343  (17021308)                652729.81
4182556.98        0.03433  (17021308)
        652779.81   4182556.98        0.03505  (17021308)                652829.81
4182556.98        0.03554  (17021308)
        652879.81   4182556.98        0.03670  (17120608)                652929.81
4182556.98        0.03832  (17120608)
        652979.81   4182556.98        0.03971  (17120608)                653029.81
4182556.98        0.04079  (17120608)
        653079.81   4182556.98        0.04149  (17120608)                653129.81
4182556.98        0.04730c (17121108)
        653179.81   4182556.98        0.05469c (17121108)                653229.81
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        653279.81   4182556.98        0.06971c (17121108)                653329.81
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        653379.81   4182556.98        0.08231c (17121108)                653429.81
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        653479.81   4182556.98        0.08554c (17121108)                653529.81
4182556.98        0.08054c (17121108)
        653579.81   4182556.98        0.08086  (17020116)                653629.81
4182556.98        0.09019  (17020116)
        653679.81   4182556.98        0.10382  (17011616)                653729.81
4182556.98        0.12425  (17011216)
        653779.81   4182556.98        0.15254  (17011216)                653829.81
4182556.98        0.16931  (17011216)
        653879.81   4182556.98        0.15958  (17011216)                653929.81
4182556.98        0.12239  (17011216)
        653979.81   4182556.98        0.11639  (17011208)                654029.81
4182556.98        0.10947  (17011208)
        654079.81   4182556.98        0.10690  (17011316)                654129.81
4182556.98        0.10737  (17011316)
        654179.81   4182556.98        0.09672  (17011316)                654229.81
4182556.98        0.08073  (17011316)
        654279.81   4182556.98        0.06844  (17122708)                654329.81
4182556.98        0.05672  (17022308)
        654379.81   4182556.98        0.05359  (17022308)                654429.81
4182556.98        0.04877  (17022308)
        654479.81   4182556.98        0.04306  (17022308)                654529.81
4182556.98        0.03905  (17122508)
        654579.81   4182556.98        0.03851  (17122508)                654629.81
4182556.98        0.03743  (17122508)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654679.81	4182556.98	0.03596	(17122508)	654729.81	4182556.98	0.03423	(17122508)
654779.81	4182556.98	0.03233	(17122508)	654829.81	4182556.98	0.03033	(17122508)
654879.81	4182556.98	0.02830	(17122508)	654929.81	4182556.98	0.02629	(17122508)
654979.81	4182556.98	0.02433	(17122508)	655029.81	4182556.98	0.02246	(17122508)
655079.81	4182556.98	0.02068	(17122508)	655129.81	4182556.98	0.01899	(17122508)
652679.81	4182606.98	0.03452	(17021308)	652729.81	4182606.98	0.03611	(17021308)
652779.81	4182606.98	0.03758	(17021308)	652829.81	4182606.98	0.03891	(17021308)
652879.81	4182606.98	0.04007	(17021308)	652929.81	4182606.98	0.04100	(17021308)
652979.81	4182606.98	0.04196	(17120608)	653029.81	4182606.98	0.04408	(17120608)
653079.81	4182606.98	0.04594	(17120608)	653129.81	4182606.98	0.04747	(17120608)
653179.81	4182606.98	0.05135c	(17121108)	653229.81	4182606.98	0.05971c	(17121108)
653279.81	4182606.98	0.06846c	(17121108)	653329.81	4182606.98	0.07736c	(17121108)
653379.81	4182606.98	0.08595c	(17121108)	653429.81	4182606.98	0.09341c	(17121108)
653479.81	4182606.98	0.09844c	(17121108)	653529.81	4182606.98	0.09929c	(17121108)
653579.81	4182606.98	0.09402c	(17121108)	653629.81	4182606.98	0.09758	(17020116)
653679.81	4182606.98	0.11413	(17011616)	653729.81	4182606.98	0.14841	(17011216)

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        653779.81   4182606.98        0.18700  (17011216)               653829.81
4182606.98        0.21222  (17011216)
        653879.81   4182606.98        0.19929  (17011216)               653929.81
4182606.98        0.14236  (17011216)
        653979.81   4182606.98        0.13606  (17011208)               654029.81
4182606.98        0.13388  (17011316)
        654079.81   4182606.98        0.13492  (17011316)               654129.81
4182606.98        0.11931  (17011316)
        654179.81   4182606.98        0.09684  (17011316)               654229.81
4182606.98        0.07572  (17122708)
        654279.81   4182606.98        0.06549  (17022308)               654329.81
4182606.98        0.05950  (17022308)
        654379.81   4182606.98        0.05213  (17022308)               654429.81
4182606.98        0.04732  (17122508)
        654479.81   4182606.98        0.04610  (17122508)               654529.81
4182606.98        0.04424  (17122508)
        654579.81   4182606.98        0.04195  (17122508)               654629.81
4182606.98        0.03940  (17122508)
        654679.81   4182606.98        0.03672  (17122508)               654729.81
4182606.98        0.03400  (17122508)
        654779.81   4182606.98        0.03132  (17122508)               654829.81
4182606.98        0.02875  (17122508)
        654879.81   4182606.98        0.02630  (17122508)               654929.81
4182606.98        0.02399  (17122508)
        654979.81   4182606.98        0.02185  (17122508)               655029.81
4182606.98        0.02029  (17030108)
        655079.81   4182606.98        0.01931  (17030108)               655129.81
4182606.98        0.01835  (17030108)
        652679.81   4182656.98        0.03402  (17021308)               652729.81
4182656.98        0.03618  (17021308)
        652779.81   4182656.98        0.03834  (17021308)               652829.81
4182656.98        0.04044  (17021308)
        652879.81   4182656.98        0.04248  (17021308)               652929.81
4182656.98        0.04440  (17021308)
        652979.81   4182656.98        0.04619  (17021308)               653029.81
4182656.98        0.04779  (17021308)
        653079.81   4182656.98        0.04913  (17021308)               653129.81
4182656.98        0.05150  (17120608)
        653179.81   4182656.98        0.05413  (17120608)               653229.81
4182656.98        0.05643  (17120608)
        653279.81   4182656.98        0.06580c (17121108)               653329.81
4182656.98        0.07608c (17121108)
        653379.81   4182656.98        0.08688c (17121108)               653429.81
4182656.98        0.09778c (17121108)
        653479.81   4182656.98        0.10786c (17121108)               653529.81
4182656.98        0.11548c (17121108)
        653579.81   4182656.98        0.11831c (17121108)               653629.81
4182656.98        0.11339c (17121108)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
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                             *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   PAREA1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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        652679.81   4182706.98        0.03196  (17021308)               652729.81
4182706.98        0.03456  (17021308)
        652779.81   4182706.98        0.03724  (17021308)               652829.81
4182706.98        0.03997  (17021308)
        652879.81   4182706.98        0.04273  (17021308)               652929.81
4182706.98        0.04551  (17021308)
        652979.81   4182706.98        0.04829  (17021308)               653029.81
4182706.98        0.05105  (17021308)
        653079.81   4182706.98        0.05376  (17021308)               653129.81
4182706.98        0.05639  (17021308)
        653179.81   4182706.98        0.05886  (17021308)               653229.81
4182706.98        0.06146  (17120608)
        653279.81   4182706.98        0.06543  (17120608)               653329.81
4182706.98        0.07338c (17121108)
        653379.81   4182706.98        0.08569c (17121108)               653429.81
4182706.98        0.09911c (17121108)
        653479.81   4182706.98        0.11336c (17121108)               653529.81
4182706.98        0.12752c (17121108)
        653579.81   4182706.98        0.13963c (17121108)               653629.81
4182706.98        0.14667c (17121108)
        653679.81   4182706.98        0.16120  (17011216)               653729.81
4182706.98        0.23656  (17011216)
        653779.81   4182706.98        0.31936  (17011216)               653829.81
4182706.98        0.37810  (17011216)
        653879.81   4182706.98        0.35532  (17011216)               653929.81
4182706.98        0.25237  (17011316)
        653979.81   4182706.98        0.25419  (17011316)               654029.81
4182706.98        0.20530  (17011316)
        654079.81   4182706.98        0.15097  (17011316)               654129.81
4182706.98        0.10558  (17011316)
        654179.81   4182706.98        0.08348  (17022308)               654229.81
4182706.98        0.07584  (17122508)
        654279.81   4182706.98        0.07090  (17122508)               654329.81
4182706.98        0.06530  (17122508)
        654379.81   4182706.98        0.05948  (17122508)               654429.81
4182706.98        0.05374  (17122508)
        654479.81   4182706.98        0.04824  (17122508)               654529.81
4182706.98        0.04312  (17122508)
        654579.81   4182706.98        0.03842  (17122508)               654629.81
4182706.98        0.03415  (17122508)
        654679.81   4182706.98        0.03032  (17122508)               654729.81
4182706.98        0.02826  (17030108)
        654779.81   4182706.98        0.02632  (17030108)               654829.81
4182706.98        0.02451  (17030108)
        654879.81   4182706.98        0.02281  (17030108)               654929.81
4182706.98        0.02122  (17030108)
        654979.81   4182706.98        0.01975  (17030108)               655029.81
4182706.98        0.01842  (17112308)
        655079.81   4182706.98        0.01720  (17112308)               655129.81
4182706.98        0.01606  (17112308)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652679.81	4182756.98	0.03139	(17120708)	652729.81	4182756.98	0.03238	(17120708)
652779.81	4182756.98	0.03442	(17021308)	652829.81	4182756.98	0.03759	(17021308)
652879.81	4182756.98	0.04089	(17021308)	652929.81	4182756.98	0.04431	(17021308)
652979.81	4182756.98	0.04786	(17021308)	653029.81	4182756.98	0.05153	(17021308)
653079.81	4182756.98	0.05532	(17021308)	653129.81	4182756.98	0.05928	(17021308)
653179.81	4182756.98	0.06338	(17021308)	653229.81	4182756.98	0.06763	(17021308)
653279.81	4182756.98	0.07203	(17021308)	653329.81	4182756.98	0.07645	(17021308)
653379.81	4182756.98	0.08318c	(17121108)	653429.81	4182756.98	0.09834c	(17121108)
653479.81	4182756.98	0.11566c	(17121108)	653529.81	4182756.98	0.13530c	(17121108)
653579.81	4182756.98	0.15664c	(17121108)	653629.81	4182756.98	0.17781c	(17121108)
653679.81	4182756.98	0.20920	(17011216)	653729.81	4182756.98	0.32955	(17011216)
653779.81	4182756.98	0.46618	(17011216)	653829.81	4182756.98	0.54123	(17011216)
653879.81	4182756.98	0.49650	(17011216)	653929.81	4182756.98	0.42759	(17011316)
653979.81	4182756.98	0.29563	(17011316)	654029.81	4182756.98	0.19827	(17011316)

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        654079.81   4182756.98        0.12897  (17011316)               654129.81
4182756.98        0.10232  (17122508)
        654179.81   4182756.98        0.09218  (17122508)               654229.81
4182756.98        0.08212  (17122508)
        654279.81   4182756.98        0.07253  (17122508)               654329.81
4182756.98        0.06369  (17122508)
        654379.81   4182756.98        0.05569  (17122508)               654429.81
4182756.98        0.04858  (17122508)
        654479.81   4182756.98        0.04233  (17122508)               654529.81
4182756.98        0.03733  (17030108)
        654579.81   4182756.98        0.03424  (17030108)               654629.81
4182756.98        0.03140  (17030108)
        654679.81   4182756.98        0.02881  (17030108)               654729.81
4182756.98        0.02648  (17112308)
        654779.81   4182756.98        0.02438  (17112308)               654829.81
4182756.98        0.02247  (17112308)
        654879.81   4182756.98        0.02074  (17112308)               654929.81
4182756.98        0.01916  (17112308)
        654979.81   4182756.98        0.01773  (17112308)               655029.81
4182756.98        0.01642  (17112308)
        655079.81   4182756.98        0.01522  (17112308)               655129.81
4182756.98        0.01413  (17112308)
        652679.81   4182806.98        0.03403  (17120708)               652729.81
4182806.98        0.03553  (17120708)
        652779.81   4182806.98        0.03710  (17120708)               652829.81
4182806.98        0.03873  (17120708)
        652879.81   4182806.98        0.04043  (17120708)               652929.81
4182806.98        0.04222  (17120708)
        652979.81   4182806.98        0.04514  (17021308)               653029.81
4182806.98        0.04944  (17021308)
        653079.81   4182806.98        0.05399  (17021308)               653129.81
4182806.98        0.05886  (17021308)
        653179.81   4182806.98        0.06413  (17021308)               653229.81
4182806.98        0.06990  (17021308)
        653279.81   4182806.98        0.07623  (17021308)               653329.81
4182806.98        0.08318  (17021308)
        653379.81   4182806.98        0.09086  (17021308)               653429.81
4182806.98        0.09938  (17021308)
        653479.81   4182806.98        0.11620c (17121108)               653529.81
4182806.98        0.14018c (17121108)
        653579.81   4182806.98        0.17007c (17121108)               653629.81
4182806.98        0.20751c (17121108)
        653679.81   4182806.98        0.29438  (17011216)               653729.81
4182806.98        0.50654  (17011216)
        653929.81   4182806.98        0.46230  (17011316)               653979.81
4182806.98        0.27294  (17011316)
        654029.81   4182806.98        0.16799  (17041816)               654079.81
4182806.98        0.12745  (17041816)
        654129.81   4182806.98        0.10617  (17122508)               654179.81
4182806.98        0.08996  (17122508)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654329.81	4182806.98	0.05444	(17122508)	654379.81	4182806.98	0.04740	(17112308)
654429.81	4182806.98	0.04251	(17112308)	654479.81	4182806.98	0.03823	(17112308)
654529.81	4182806.98	0.03448	(17112308)	654579.81	4182806.98	0.03117	(17112308)
654629.81	4182806.98	0.02825	(17112308)	654679.81	4182806.98	0.02567	(17112308)
654729.81	4182806.98	0.02338	(17112308)	654779.81	4182806.98	0.02133	(17112308)
654829.81	4182806.98	0.01951	(17112308)	654879.81	4182806.98	0.01788	(17112308)
654929.81	4182806.98	0.01675	(17112208)	654979.81	4182806.98	0.01604	(17112208)
655029.81	4182806.98	0.01538	(17112208)	655079.81	4182806.98	0.01477	(17112208)
655129.81	4182806.98	0.01420	(17112208)	652679.81	4182856.98	0.03479	(17013008)
652729.81	4182856.98	0.03657	(17120708)	652779.81	4182856.98	0.03858	(17120708)
652829.81	4182856.98	0.04072	(17120708)	652879.81	4182856.98	0.04300	(17120708)
652929.81	4182856.98	0.04542	(17120708)	652979.81	4182856.98	0.04804	(17120708)
653029.81	4182856.98	0.05088	(17120708)	653079.81	4182856.98	0.05399	(17120708)

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        653129.81   4182856.98        0.05743  (17120708)               653179.81
4182856.98        0.06181  (17021308)
        653229.81   4182856.98        0.06846  (17021308)               653279.81
4182856.98        0.07597  (17021308)
        653329.81   4182856.98        0.08458  (17021308)               653379.81
4182856.98        0.09460  (17021308)
        653429.81   4182856.98        0.10650  (17021308)               653479.81
4182856.98        0.12099  (17021308)
        653529.81   4182856.98        0.14463c (17121108)               653579.81
4182856.98        0.18281c (17121108)
        653629.81   4182856.98        0.24049c (17121108)               653679.81
4182856.98        0.46512  (17122516)
        653929.81   4182856.98        0.43820  (17041816)               653979.81
4182856.98        0.26426  (17041816)
        654029.81   4182856.98        0.18239  (17041816)               654079.81
4182856.98        0.13417  (17041816)
        654129.81   4182856.98        0.10256  (17041816)               654179.81
4182856.98        0.08059  (17041816)
        654229.81   4182856.98        0.06469  (17041816)               654279.81
4182856.98        0.05436  (17112308)
        654329.81   4182856.98        0.04752  (17112308)               654379.81
4182856.98        0.04178  (17112308)
        654429.81   4182856.98        0.03694  (17112308)               654479.81
4182856.98        0.03330  (17112908)
        654529.81   4182856.98        0.03087  (17112908)               654579.81
4182856.98        0.02875  (17112908)
        654629.81   4182856.98        0.02689  (17112208)               654679.81
4182856.98        0.02526  (17112208)
        654729.81   4182856.98        0.02379  (17112208)               654779.81
4182856.98        0.02246  (17112208)
        654829.81   4182856.98        0.02127  (17112208)               654879.81
4182856.98        0.02018  (17112208)
        654929.81   4182856.98        0.01919  (17112208)               654979.81
4182856.98        0.01828  (17112208)
        655029.81   4182856.98        0.01744  (17112208)               655079.81
4182856.98        0.01666  (17112208)
        655129.81   4182856.98        0.01595  (17112208)               652679.81
4182906.98        0.03755  (17013008)
        652729.81   4182906.98        0.03949  (17013008)               652779.81
4182906.98        0.04159  (17013008)
        652829.81   4182906.98        0.04387  (17013008)               652879.81
4182906.98        0.04634  (17013008)
        652929.81   4182906.98        0.04903  (17013008)               652979.81
4182906.98        0.05200  (17013008)
        653029.81   4182906.98        0.05530  (17013008)               653079.81
4182906.98        0.05899  (17013008)
        653129.81   4182906.98        0.06317  (17013008)               653179.81
4182906.98        0.06794  (17013008)
        653229.81   4182906.98        0.07348  (17013008)               653279.81
4182906.98        0.07999  (17013008)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653329.81	4182906.98	0.08776	(17013008)	653379.81	4182906.98	0.09725	(17013008)
653429.81	4182906.98	0.11147	(17012316)	653479.81	4182906.98	0.13127	(17012316)
653529.81	4182906.98	0.15942	(17012316)	653579.81	4182906.98	0.23270	(17122516)
653629.81	4182906.98	0.45020	(17122516)	653929.81	4182906.98	0.43587	(17041816)
653979.81	4182906.98	0.25013	(17041816)	654029.81	4182906.98	0.16506	(17041816)
654079.81	4182906.98	0.11753	(17041816)	654129.81	4182906.98	0.08787	(17041816)
654179.81	4182906.98	0.07321	(17112908)	654229.81	4182906.98	0.06448	(17112908)
654279.81	4182906.98	0.05742	(17112908)	654329.81	4182906.98	0.05162	(17112908)
654379.81	4182906.98	0.04678	(17112908)	654429.81	4182906.98	0.04268	(17112908)
654479.81	4182906.98	0.03917	(17112908)	654529.81	4182906.98	0.03614	(17112908)
654579.81	4182906.98	0.03349	(17112908)	654629.81	4182906.98	0.03117	(17112908)
654679.81	4182906.98	0.02911	(17112908)	654729.81	4182906.98	0.02728	(17112908)
654779.81	4182906.98	0.02564	(17112908)	654829.81	4182906.98	0.02416	(17112908)
654879.81	4182906.98	0.02282	(17112908)	654929.81	4182906.98	0.02161	(17112908)

654979.81 4182906.98 0.02051 (17112908) 655029.81 4182906.98 0.01950 (17112908)
655079.81 4182906.98 0.01856 (17112908) 655129.81 4182906.98 0.01771 (17112908)
652679.81 4182956.98 0.03788 (17013008) 652729.81 4182956.98 0.04006 (17013008)
652779.81 4182956.98 0.04245 (17013008) 652829.81 4182956.98 0.04505 (17013008)
652879.81 4182956.98 0.04790 (17013008) 652929.81 4182956.98 0.05102 (17013008)
652979.81 4182956.98 0.05446 (17013008) 653029.81 4182956.98 0.05827 (17013008)
653079.81 4182956.98 0.06252 (17013008) 653129.81 4182956.98 0.06731 (17013008)
653179.81 4182956.98 0.07279 (17013008) 653229.81 4182956.98 0.07988 (17012316)
653279.81 4182956.98 0.08888 (17012316) 653329.81 4182956.98 0.09990 (17012316)
653379.81 4182956.98 0.11381 (17012316) 653429.81 4182956.98 0.13212 (17012316)
653479.81 4182956.98 0.15777 (17012316) 653529.81 4182956.98 0.23244 (17122516)
653579.81 4182956.98 0.39814 (17122516) 653929.81 4182956.98 0.33017 (17011116)
653979.81 4182956.98 0.20507 (17011116) 654029.81 4182956.98 0.13738 (17011116)
654079.81 4182956.98 0.10289 (17022708) 654129.81 4182956.98 0.08976 (17022708)
654179.81 4182956.98 0.07936 (17022708) 654229.81 4182956.98 0.07086 (17022708)
654279.81 4182956.98 0.06375 (17022708) 654329.81 4182956.98 0.05773 (17022708)
654379.81 4182956.98 0.05256 (17022708) 654429.81 4182956.98 0.04809 (17022708)
654479.81 4182956.98 0.04420 (17022708) 654529.81 4182956.98 0.04078 (17022708)
654579.81 4182956.98 0.03777 (17022708) 654629.81 4182956.98 0.03511 (17022708)
654679.81 4182956.98 0.03273 (17022708) 654729.81 4182956.98 0.03060 (17022708)
654779.81 4182956.98 0.02868 (17022708) 654829.81 4182956.98 0.02695 (17022708)
654879.81 4182956.98 0.02539 (17022708) 654929.81 4182956.98 0.02396 (17022708)
654979.81 4182956.98 0.02266 (17022708) 655029.81 4182956.98 0.02147 (17022708)
655079.81 4182956.98 0.02037 (17022708) 655129.81 4182956.98 0.01937 (17022708)
652679.81 4183006.98 0.03742 (17012316) 652729.81 4183006.98 0.03956 (17012316)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653079.81	4183006.98	0.06405	(17012316)	653129.81	4183006.98	0.06993	(17012316)
653179.81	4183006.98	0.07691	(17012316)	653229.81	4183006.98	0.08521	(17012316)
653279.81	4183006.98	0.09519	(17012316)	653329.81	4183006.98	0.10756	(17012316)
653379.81	4183006.98	0.12357	(17012316)	653429.81	4183006.98	0.16284	(17122516)
653479.81	4183006.98	0.22799	(17122516)	653529.81	4183006.98	0.35746	(17122516)
653579.81	4183006.98	0.68259	(17122816)	653829.81	4183006.98	0.66838	(17010616)
653879.81	4183006.98	0.37868	(17011116)	653929.81	4183006.98	0.29695	(17011116)
653979.81	4183006.98	0.21776	(17011116)	654029.81	4183006.98	0.16083	(17011116)
654079.81	4183006.98	0.11960	(17011116)	654129.81	4183006.98	0.08805	(17011116)
654179.81	4183006.98	0.07487	(17022708)	654229.81	4183006.98	0.06832	(17022708)
654279.81	4183006.98	0.06264	(17022708)	654329.81	4183006.98	0.05764	(17022708)

654379.81 4183006.98 0.05323 (17022708) 654429.81 4183006.98 0.04930 (17022708)
654479.81 4183006.98 0.04578 (17022708) 654529.81 4183006.98 0.04263 (17022708)
654579.81 4183006.98 0.03979 (17022708) 654629.81 4183006.98 0.03723 (17022708)
654679.81 4183006.98 0.03491 (17022708) 654729.81 4183006.98 0.03280 (17022708)
654779.81 4183006.98 0.03088 (17022708) 654829.81 4183006.98 0.02913 (17022708)
654879.81 4183006.98 0.02753 (17022708) 654929.81 4183006.98 0.02606 (17022708)
654979.81 4183006.98 0.02471 (17022708) 655029.81 4183006.98 0.02346 (17022708)
655079.81 4183006.98 0.02231 (17022708) 655129.81 4183006.98 0.02124 (17022708)
652679.81 4183056.98 0.03918 (17120108) 652729.81 4183056.98 0.04156 (17120108)
652779.81 4183056.98 0.04419 (17120108) 652829.81 4183056.98 0.04713 (17120108)
652879.81 4183056.98 0.05036 (17120108) 652929.81 4183056.98 0.05393 (17120108)
652979.81 4183056.98 0.05792 (17120108) 653029.81 4183056.98 0.06242 (17120108)
653079.81 4183056.98 0.06751 (17120108) 653129.81 4183056.98 0.07331 (17120108)
653179.81 4183056.98 0.08000 (17120108) 653229.81 4183056.98 0.08896 (17122608)
653279.81 4183056.98 0.10246 (17122608) 653329.81 4183056.98 0.12345 (17122516)
653379.81 4183056.98 0.16197 (17122516) 653429.81 4183056.98 0.22409 (17122516)
653479.81 4183056.98 0.34134 (17122516) 653529.81 4183056.98 0.63500 (17122816)
653729.81 4183056.98 0.71451 (17010616) 653779.81 4183056.98 0.53156 (17010616)
653829.81 4183056.98 0.37113 (17010616) 653879.81 4183056.98 0.26058 (17011116)
653929.81 4183056.98 0.22686 (17011116) 653979.81 4183056.98 0.19018 (17011116)
654029.81 4183056.98 0.15835 (17011116) 654079.81 4183056.98 0.12982 (17011116)
654129.81 4183056.98 0.10414 (17011116) 654179.81 4183056.98 0.08170 (17011116)
654229.81 4183056.98 0.06294 (17011116) 654279.81 4183056.98 0.05498 (17022708)
654329.81 4183056.98 0.05166 (17022708) 654379.81 4183056.98 0.04859 (17022708)
654429.81 4183056.98 0.04576 (17022708) 654479.81 4183056.98 0.04314 (17022708)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654529.81	4183056.98	0.04070	(17022708)	654579.81	4183056.98	0.03845	(17022708)
654629.81	4183056.98	0.03636	(17022708)	654679.81	4183056.98	0.03442	(17022708)
654729.81	4183056.98	0.03262	(17022708)	654779.81	4183056.98	0.03095	(17022708)
654829.81	4183056.98	0.02939	(17022708)	654879.81	4183056.98	0.02795	(17022708)
654929.81	4183056.98	0.02660	(17022708)	654979.81	4183056.98	0.02535	(17022708)
655029.81	4183056.98	0.02418	(17022708)	655079.81	4183056.98	0.02309	(17022708)
655129.81	4183056.98	0.02206	(17022708)	652679.81	4183106.98	0.04054	(17013116)
652729.81	4183106.98	0.04298	(17013116)	652779.81	4183106.98	0.04563	(17013116)
652829.81	4183106.98	0.04851	(17013116)	652879.81	4183106.98	0.05167	(17013116)
652929.81	4183106.98	0.05518	(17013116)	652979.81	4183106.98	0.05911	(17013116)
653029.81	4183106.98	0.06446	(17122608)	653079.81	4183106.98	0.07212	(17122608)
653129.81	4183106.98	0.08110	(17122608)	653179.81	4183106.98	0.09181	(17122608)
653229.81	4183106.98	0.10490	(17122608)	653279.81	4183106.98	0.12205	(17122516)
653329.81	4183106.98	0.15270	(17122516)	653379.81	4183106.98	0.23349	(17122516)

653429.81 4183106.98 0.35880 (17122816) 653679.81
4183106.98 0.55677 (17010616)
653729.81 4183106.98 0.41444 (17010616) 653779.81
4183106.98 0.32704 (17010616)
653829.81 4183106.98 0.25367 (17010616) 653879.81
4183106.98 0.19088 (17011116)
653929.81 4183106.98 0.17565 (17011116) 653979.81
4183106.98 0.15621 (17011116)
654029.81 4183106.98 0.13884 (17011116) 654079.81
4183106.98 0.12338 (17011116)
654129.81 4183106.98 0.10741 (17011116) 654179.81
4183106.98 0.09089 (17011116)
654229.81 4183106.98 0.07492 (17011116) 654279.81
4183106.98 0.06046 (17011116)
654329.81 4183106.98 0.04801 (17011116) 654379.81
4183106.98 0.04059 (17022708)
654429.81 4183106.98 0.03895 (17022708) 654479.81
4183106.98 0.03737 (17022708)
654529.81 4183106.98 0.03583 (17022708) 654579.81
4183106.98 0.03435 (17022708)
654629.81 4183106.98 0.03292 (17022708) 654679.81
4183106.98 0.03155 (17022708)
654729.81 4183106.98 0.03024 (17022708) 654779.81
4183106.98 0.02899 (17022708)
654829.81 4183106.98 0.02780 (17022708) 654879.81
4183106.98 0.02666 (17022708)
654929.81 4183106.98 0.02558 (17022708) 654979.81
4183106.98 0.02455 (17022708)
655029.81 4183106.98 0.02358 (17022708) 655079.81
4183106.98 0.02266 (17022708)
655129.81 4183106.98 0.02178 (17022708) 652679.81
4183156.98 0.03933 (17013116)
652729.81 4183156.98 0.04122 (17013116) 652779.81
4183156.98 0.04451 (17122608)
652829.81 4183156.98 0.04857 (17122608) 652879.81
4183156.98 0.05308 (17122608)
652929.81 4183156.98 0.05811 (17122608) 652979.81
4183156.98 0.06476 (17122516)
653029.81 4183156.98 0.07298 (17122516) 653079.81
4183156.98 0.08237 (17122516)
653129.81 4183156.98 0.09329 (17122516) 653179.81
4183156.98 0.10655 (17122516)
653229.81 4183156.98 0.12393 (17122516) 653279.81
4183156.98 0.15044 (17122516)
653329.81 4183156.98 0.23573 (17122816) 653379.81
4183156.98 0.39525 (17122816)
653429.81 4183156.98 0.49885 (17122816) 653479.81
4183156.98 0.50272 (17122816)
653529.81 4183156.98 0.47394 (17122916) 653579.81
4183156.98 0.46222 (17010616)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654129.81	4183156.98	0.10020	(17011116)	654179.81	4183156.98	0.09063	(17011116)
654229.81	4183156.98	0.07971	(17011116)	654279.81	4183156.98	0.06828	(17011116)
654329.81	4183156.98	0.05721	(17011116)	654379.81	4183156.98	0.04709	(17011116)
654429.81	4183156.98	0.03823	(17011116)	654479.81	4183156.98	0.03074	(17011116)
654529.81	4183156.98	0.02932	(17022708)	654579.81	4183156.98	0.02858	(17022708)
654629.81	4183156.98	0.02782	(17022708)	654679.81	4183156.98	0.02705	(17022708)
654729.81	4183156.98	0.02628	(17022708)	654779.81	4183156.98	0.02551	(17022708)
654829.81	4183156.98	0.02474	(17022708)	654879.81	4183156.98	0.02399	(17022708)
654929.81	4183156.98	0.02325	(17022708)	654979.81	4183156.98	0.02252	(17022708)

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        655029.81   4183156.98        0.02182  (17022708)               655079.81
4183156.98        0.02113  (17022708)
        655129.81   4183156.98        0.02046  (17022708)               652679.81
4183206.98        0.04088  (17122608)
        652729.81   4183206.98        0.04412  (17122516)               652779.81
4183206.98        0.04884  (17122516)
        652829.81   4183206.98        0.05397  (17122516)               652879.81
4183206.98        0.05952  (17122516)
        652929.81   4183206.98        0.06550  (17122516)               652979.81
4183206.98        0.07189  (17122516)
        653029.81   4183206.98        0.07871  (17122516)               653079.81
4183206.98        0.08593  (17122516)
        653129.81   4183206.98        0.09348  (17122516)               653179.81
4183206.98        0.11700  (17122616)
        653229.81   4183206.98        0.15012  (17122616)               653279.81
4183206.98        0.18755  (17122616)
        653329.81   4183206.98        0.21498  (17122816)               653379.81
4183206.98        0.24740  (17122816)
        653429.81   4183206.98        0.24322  (17122816)               653479.81
4183206.98        0.24605  (17122916)
        653529.81   4183206.98        0.23273  (17122916)               653579.81
4183206.98        0.24634  (17010616)
        653629.81   4183206.98        0.24396  (17010616)               653679.81
4183206.98        0.22894  (17010616)
        653729.81   4183206.98        0.21003  (17010616)               653779.81
4183206.98        0.18686  (17010616)
        653829.81   4183206.98        0.15647  (17010616)               653879.81
4183206.98        0.11653  (17010616)
        653929.81   4183206.98        0.10851  (17011116)               653979.81
4183206.98        0.10394  (17011116)
        654029.81   4183206.98        0.09741  (17011116)               654079.81
4183206.98        0.09207  (17011116)
        654129.81   4183206.98        0.08806  (17011116)               654179.81
4183206.98        0.08360  (17011116)
        654229.81   4183206.98        0.07766  (17011116)               654279.81
4183206.98        0.07030  (17011116)
        654329.81   4183206.98        0.06208  (17011116)               654379.81
4183206.98        0.05364  (17011116)
        654429.81   4183206.98        0.04550  (17011116)               654479.81
4183206.98        0.03803  (17011116)
        654529.81   4183206.98        0.03142  (17011116)               654579.81
4183206.98        0.02573  (17011116)
        654629.81   4183206.98        0.02206  (17022708)               654679.81
4183206.98        0.02180  (17022708)
        654729.81   4183206.98        0.02150  (17022708)               654779.81
4183206.98        0.02116  (17022708)
        654829.81   4183206.98        0.02080  (17022708)               654879.81
4183206.98        0.02042  (17022708)
        654929.81   4183206.98        0.02002  (17022708)               654979.81
4183206.98        0.01961  (17022708)
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*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653129.81	4183256.98	0.11431	(17122616)	653179.81	4183256.98	0.13383	(17122616)
653229.81	4183256.98	0.14786	(17122616)	653279.81	4183256.98	0.14901	(17122816)
653329.81	4183256.98	0.15940	(17122816)	653379.81	4183256.98	0.15190	(17122816)
653429.81	4183256.98	0.17329	(17010316)	653479.81	4183256.98	0.17547	(17010316)
653529.81	4183256.98	0.14826	(17121208)	653579.81	4183256.98	0.16705	(17010616)
653629.81	4183256.98	0.17715	(17010616)	653679.81	4183256.98	0.17586	(17010616)
653729.81	4183256.98	0.16752	(17010616)	653779.81	4183256.98	0.15300	(17010616)
653829.81	4183256.98	0.13081	(17010616)	653879.81	4183256.98	0.10024	(17010616)

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        653929.81   4183256.98        0.08512  (17011116)               653979.81
4183256.98        0.08404  (17011116)
        654029.81   4183256.98        0.08073  (17011116)               654079.81
4183256.98        0.07727  (17011116)
        654129.81   4183256.98        0.07511  (17011116)               654179.81
4183256.98        0.07346  (17011116)
        654229.81   4183256.98        0.07108  (17011116)               654279.81
4183256.98        0.06737  (17011116)
        654329.81   4183256.98        0.06237  (17011116)               654379.81
4183256.98        0.05643  (17011116)
        654429.81   4183256.98        0.05001  (17011116)               654479.81
4183256.98        0.04352  (17011116)
        654529.81   4183256.98        0.03730  (17011116)               654579.81
4183256.98        0.03156  (17011116)
        654629.81   4183256.98        0.02644  (17011116)               654679.81
4183256.98        0.02197  (17011116)
        654729.81   4183256.98        0.01816  (17011116)               654779.81
4183256.98        0.01662  (17022708)
        654829.81   4183256.98        0.01657  (17022708)               654879.81
4183256.98        0.01649  (17022708)
        654929.81   4183256.98        0.01638  (17022708)               654979.81
4183256.98        0.01625  (17022708)
        655029.81   4183256.98        0.01608  (17022708)               655079.81
4183256.98        0.01590  (17022708)
        655129.81   4183256.98        0.01569  (17022708)               652679.81
4183306.98        0.04676  (17122516)
        652729.81   4183306.98        0.04920  (17122516)               652779.81
4183306.98        0.05127  (17122516)
        652829.81   4183306.98        0.05287  (17122516)               652879.81
4183306.98        0.05597  (17010916)
        652929.81   4183306.98        0.06596  (17122616)               652979.81
4183306.98        0.07863  (17122616)
        653029.81   4183306.98        0.09187  (17122616)               653079.81
4183306.98        0.10421  (17122616)
        653129.81   4183306.98        0.11312  (17122616)               653179.81
4183306.98        0.11499  (17122616)
        653229.81   4183306.98        0.11192  (17122816)               653279.81
4183306.98        0.11354  (17122816)
        653329.81   4183306.98        0.11532  (17122916)               653379.81
4183306.98        0.13370  (17122916)
        653429.81   4183306.98        0.13915  (17010316)               653479.81
4183306.98        0.12684  (17010316)
        653529.81   4183306.98        0.11763  (17121208)               653579.81
4183306.98        0.12609  (17010616)
        653629.81   4183306.98        0.13866  (17010616)               653679.81
4183306.98        0.14224  (17010616)
        653729.81   4183306.98        0.13887  (17010616)               653779.81
4183306.98        0.12913  (17010616)
        653829.81   4183306.98        0.11222  (17010616)               653879.81
4183306.98        0.08805  (17010616)
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        653929.81   4183306.98        0.07442  (17110708)               653979.81
4183306.98        0.06765  (17011608)
        654029.81   4183306.98        0.06609  (17011116)               654079.81
4183306.98        0.06427  (17011116)
        654129.81   4183306.98        0.06307  (17011116)               654179.81
4183306.98        0.06273  (17011116)
        654229.81   4183306.98        0.06240  (17011116)               654279.81
4183306.98        0.06128  (17011116)
        654329.81   4183306.98        0.05901  (17011116)               654379.81
4183306.98        0.05563  (17011116)
        654429.81   4183306.98        0.05135  (17011116)               654479.81
4183306.98        0.04648  (17011116)
        654529.81   4183306.98        0.04134  (17011116)               654579.81
4183306.98        0.03620  (17011116)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                  PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        654629.81   4183306.98        0.03129  (17011116)               654679.81
4183306.98        0.02675  (17011116)
        654729.81   4183306.98        0.02266  (17011116)               654779.81
4183306.98        0.01906  (17011116)
        654829.81   4183306.98        0.01595  (17011116)               654879.81
4183306.98        0.01405  (17022108)
        654929.81   4183306.98        0.01357  (17022108)               654979.81
4183306.98        0.01327  (17111708)
        655029.81   4183306.98        0.01303  (17111708)               655079.81
4183306.98        0.01288  (17022708)
        655129.81   4183306.98        0.01286  (17022708)               652679.81
4183356.98        0.04293  (17122516)
        652729.81   4183356.98        0.04441  (17010916)               652779.81
4183356.98        0.04845  (17010916)
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652829.81 4183356.98 0.05723 (17122616) 652879.81
4183356.98 0.06676 (17122616)
652929.81 4183356.98 0.07631 (17122616) 652979.81
4183356.98 0.08493 (17122616)
653029.81 4183356.98 0.09118 (17122616) 653079.81
4183356.98 0.09320 (17122616)
653129.81 4183356.98 0.08913 (17122616) 653179.81
4183356.98 0.08743 (17122816)
653229.81 4183356.98 0.08550 (17122816) 653279.81
4183356.98 0.09392 (17122916)
653329.81 4183356.98 0.10936 (17122916) 653379.81
4183356.98 0.11310 (17122916)
653429.81 4183356.98 0.10816 (17010316) 653479.81
4183356.98 0.10435 (17121208)
653529.81 4183356.98 0.09425 (17121208) 653579.81
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653629.81 4183356.98 0.11363 (17010616) 653679.81
4183356.98 0.11918 (17010616)
653729.81 4183356.98 0.11840 (17010616) 653779.81
4183356.98 0.11163 (17010616)
653829.81 4183356.98 0.09834 (17010616) 653879.81
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653929.81 4183356.98 0.06894 (17110708) 653979.81
4183356.98 0.06172 (17011608)
654029.81 4183356.98 0.05945 (17011608) 654079.81
4183356.98 0.05641 (17022408)
654129.81 4183356.98 0.05595 (17022408) 654179.81
4183356.98 0.05325 (17022408)
654229.81 4183356.98 0.05324 (17011116) 654279.81
4183356.98 0.05369 (17011116)
654329.81 4183356.98 0.05337 (17011116) 654379.81
4183356.98 0.05209 (17011116)
654429.81 4183356.98 0.04985 (17011116) 654479.81
4183356.98 0.04679 (17011116)
654529.81 4183356.98 0.04312 (17011116) 654579.81
4183356.98 0.03907 (17011116)
654629.81 4183356.98 0.03487 (17011116) 654679.81
4183356.98 0.03072 (17011116)
654729.81 4183356.98 0.02674 (17011116) 654779.81
4183356.98 0.02306 (17011116)
654829.81 4183356.98 0.01973 (17011116) 654879.81
4183356.98 0.01676 (17011116)
654929.81 4183356.98 0.01417 (17011116) 654979.81
4183356.98 0.01247 (17113008)
655029.81 4183356.98 0.01208 (17022108) 655079.81
4183356.98 0.01173 (17022108)
655129.81 4183356.98 0.01135 (17022108) 652679.81
4183406.98 0.04315 (17122616)
652729.81 4183406.98 0.05025 (17122616) 652779.81
4183406.98 0.05765 (17122616)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652829.81	4183406.98	0.06489	(17122616)	652879.81	4183406.98	0.07130	(17122616)
652929.81	4183406.98	0.07599	(17122616)	652979.81	4183406.98	0.07786	(17122616)
653029.81	4183406.98	0.07583	(17122616)	653079.81	4183406.98	0.07001	(17122816)
653129.81	4183406.98	0.07013	(17122816)	653179.81	4183406.98	0.06683	(17122816)
653229.81	4183406.98	0.07868	(17122916)	653279.81	4183406.98	0.09174	(17122916)
653329.81	4183406.98	0.09667	(17122916)	653379.81	4183406.98	0.09216	(17010316)
653429.81	4183406.98	0.09067	(17121208)	653479.81	4183406.98	0.08751	(17121208)
653529.81	4183406.98	0.07575	(17121208)	653579.81	4183406.98	0.08416	(17010616)
653629.81	4183406.98	0.09608	(17010616)	653679.81	4183406.98	0.10244	(17010616)
653729.81	4183406.98	0.10320	(17010616)	653779.81	4183406.98	0.09842	(17010616)
653829.81	4183406.98	0.08774	(17010616)	653879.81	4183406.98	0.07142	(17010616)
653929.81	4183406.98	0.06383	(17110708)	653979.81	4183406.98	0.05835	(17110708)
654029.81	4183406.98	0.05554	(17011608)	654079.81	4183406.98	0.05216	(17011608)
654129.81	4183406.98	0.05112	(17022408)	654179.81	4183406.98	0.05048	(17022408)

654229.81 4183406.98 0.04789 (17022408) 654279.81 4183406.98 0.04570 (17011116)
654329.81 4183406.98 0.04662 (17011116) 654379.81 4183406.98 0.04685 (17011116)
654429.81 4183406.98 0.04626 (17011116) 654479.81 4183406.98 0.04485 (17011116)
654529.81 4183406.98 0.04270 (17011116) 654579.81 4183406.98 0.03995 (17011116)
654629.81 4183406.98 0.03679 (17011116) 654679.81 4183406.98 0.03339 (17011116)
654729.81 4183406.98 0.02990 (17011116) 654779.81 4183406.98 0.02648 (17011116)
654829.81 4183406.98 0.02320 (17011116) 654879.81 4183406.98 0.02016 (17011116)
654929.81 4183406.98 0.01738 (17011116) 654979.81 4183406.98 0.01490 (17011116)
655029.81 4183406.98 0.01298 (17113008) 655079.81 4183406.98 0.01156 (17113008)
655129.81 4183406.98 0.01077 (17022108) 652679.81 4183456.98 0.05048 (17122616)
652729.81 4183456.98 0.05615 (17122616) 652779.81 4183456.98 0.06114 (17122616)
652829.81 4183456.98 0.06483 (17122616) 652879.81 4183456.98 0.06653 (17122616)
652929.81 4183456.98 0.06553 (17122616) 652979.81 4183456.98 0.06138 (17122616)
653029.81 4183456.98 0.05874 (17122816) 653079.81 4183456.98 0.05740 (17122816)
653129.81 4183456.98 0.05372 (17122916) 653179.81 4183456.98 0.06734 (17122916)
653229.81 4183456.98 0.07836 (17122916) 653279.81 4183456.98 0.08368 (17122916)
653329.81 4183456.98 0.08128 (17122916) 653379.81 4183456.98 0.07787 (17121208)
653429.81 4183456.98 0.07930 (17121208) 653479.81 4183456.98 0.07304 (17121208)
653529.81 4183456.98 0.06092 (17121208) 653579.81 4183456.98 0.07211 (17010616)
653629.81 4183456.98 0.08331 (17010616) 653679.81 4183456.98 0.08997 (17010616)
653729.81 4183456.98 0.09167 (17010616) 653779.81 4183456.98 0.08825 (17010616)
653829.81 4183456.98 0.07940 (17010616) 653879.81 4183456.98 0.06557 (17010616)
653929.81 4183456.98 0.05904 (17110708) 653979.81 4183456.98 0.05535 (17110708)
654029.81 4183456.98 0.05136 (17011608) 654079.81 4183456.98 0.04985 (17011608)
654129.81 4183456.98 0.04589 (17022408) 654179.81 4183456.98 0.04667 (17022408)

654229.81 4183456.98 0.04589 (17022408) 654279.81
4183456.98 0.04344 (17022408)
654329.81 4183456.98 0.03954 (17011116) 654379.81
4183456.98 0.04074 (17011116)
654429.81 4183456.98 0.04135 (17011116) 654479.81
4183456.98 0.04125 (17011116)
654529.81 4183456.98 0.04045 (17011116) 654579.81
4183456.98 0.03899 (17011116)
654629.81 4183456.98 0.03698 (17011116) 654679.81
4183456.98 0.03454 (17011116)
654729.81 4183456.98 0.03181 (17011116) 654779.81
4183456.98 0.02893 (17011116)
654829.81 4183456.98 0.02600 (17011116) 654879.81
4183456.98 0.02312 (17011116)
654929.81 4183456.98 0.02038 (17011116) 654979.81
4183456.98 0.01782 (17011116)
655029.81 4183456.98 0.01548 (17011116) 655079.81
4183456.98 0.01345 (17122716)
*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave *** 03/03/22
*** AERMET - VERSION 18081 *** ***
*** 11:24:15

PAGE 122
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
- - - -

653129.81 4183506.98 0.05860 (17122916) 653179.81 4183506.98 0.06796 (17122916)
653229.81 4183506.98 0.07321 (17122916) 653279.81 4183506.98 0.07263 (17122916)
653329.81 4183506.98 0.06649 (17121208) 653379.81 4183506.98 0.07067 (17121208)
653429.81 4183506.98 0.06858 (17121208) 653479.81 4183506.98 0.06072 (17121208)
653529.81 4183506.98 0.05030 (17010616) 653579.81 4183506.98 0.06288 (17010616)
653629.81 4183506.98 0.07326 (17010616) 653679.81 4183506.98 0.07993 (17010616)
653729.81 4183506.98 0.08224 (17010616) 653779.81 4183506.98 0.07987 (17010616)
653829.81 4183506.98 0.07258 (17010616) 653879.81 4183506.98 0.06076 (17010616)
653929.81 4183506.98 0.05454 (17110708) 653979.81 4183506.98 0.05228 (17110708)
654029.81 4183506.98 0.04744 (17110708) 654079.81 4183506.98 0.04699 (17011608)
654129.81 4183506.98 0.04462 (17011608) 654179.81 4183506.98 0.04229 (17022408)
654229.81 4183506.98 0.04284 (17022408) 654279.81 4183506.98 0.04198 (17022408)
654329.81 4183506.98 0.03967 (17022408) 654379.81 4183506.98 0.03610 (17022408)
654429.81 4183506.98 0.03577 (17011116) 654479.81 4183506.98 0.03662 (17011116)
654529.81 4183506.98 0.03689 (17011116) 654579.81 4183506.98 0.03655 (17011116)
654629.81 4183506.98 0.03563 (17011116) 654679.81 4183506.98 0.03421 (17011116)
654729.81 4183506.98 0.03236 (17011116) 654779.81 4183506.98 0.03020 (17011116)
654829.81 4183506.98 0.02783 (17011116) 654879.81 4183506.98 0.02535 (17011116)
654929.81 4183506.98 0.02285 (17011116) 654979.81 4183506.98 0.02041 (17011116)
655029.81 4183506.98 0.01808 (17011116) 655079.81 4183506.98 0.01590 (17011116)
655129.81 4183506.98 0.01397 (17122716) 652679.81 4183556.98 0.05090 (17122616)
652729.81 4183556.98 0.05083 (17122616) 652779.81 4183556.98 0.04905 (17122616)
652829.81 4183556.98 0.04545 (17122616) 652879.81 4183556.98 0.04374 (17122816)
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653029.81 4183556.98 0.04231 (17122916) 653079.81 4183556.98 0.05168 (17122916)

        653129.81   4183556.98   0.05969 (17122916)   653179.81
4183556.98   0.06466 (17122916)
        653229.81   4183556.98   0.06517 (17122916)   653279.81
4183556.98   0.06068 (17122916)
        653329.81   4183556.98   0.06231 (17121208)   653379.81
4183556.98   0.06312 (17121208)
        653429.81   4183556.98   0.05880 (17121208)   653479.81
4183556.98   0.05029 (17121208)
        653529.81   4183556.98   0.04626 (17030308)   653579.81
4183556.98   0.05676 (17030308)
        653629.81   4183556.98   0.06532 (17010616)   653679.81
4183556.98   0.07186 (17010616)
        653729.81   4183556.98   0.07456 (17010616)   653779.81
4183556.98   0.07297 (17010616)
        653829.81   4183556.98   0.06690 (17010616)   653879.81
4183556.98   0.05675 (17010616)
        653929.81   4183556.98   0.05029 (17110708)   653979.81
4183556.98   0.04919 (17110708)
        654029.81   4183556.98   0.04573 (17110708)   654079.81
4183556.98   0.04380 (17011608)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   PAREA1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        654129.81   4183556.98   0.04284 (17011608)   654179.81
4183556.98   0.03986 (17011608)
        654229.81   4183556.98   0.03916 (17022408)   654279.81
4183556.98   0.03951 (17022408)
        654329.81   4183556.98   0.03860 (17022408)   654379.81
4183556.98   0.03643 (17022408)
        654429.81   4183556.98   0.03321 (17022408)   654479.81
4183556.98   0.03149 (17011116)

654529.81 4183556.98 0.03253 (17011116) 654579.81 4183556.98 0.03306 (17011116)
654629.81 4183556.98 0.03308 (17011116) 654679.81 4183556.98 0.03258 (17011116)
654729.81 4183556.98 0.03162 (17011116) 654779.81 4183556.98 0.03026 (17011116)
654829.81 4183556.98 0.02857 (17011116) 654879.81 4183556.98 0.02665 (17011116)
654929.81 4183556.98 0.02458 (17011116) 654979.81 4183556.98 0.02244 (17011116)
655029.81 4183556.98 0.02029 (17011116) 655079.81 4183556.98 0.01819 (17011116)
655129.81 4183556.98 0.01619 (17011116) 652679.81 4183606.98 0.04427 (17122616)
652729.81 4183606.98 0.04168 (17122616) 652779.81 4183606.98 0.03881 (17122816)
652829.81 4183606.98 0.03834 (17122816) 652879.81 4183606.98 0.03692 (17122816)
652929.81 4183606.98 0.03456 (17122816) 652979.81 4183606.98 0.03812 (17122916)
653029.81 4183606.98 0.04607 (17122916) 653079.81 4183606.98 0.05298 (17122916)
653129.81 4183606.98 0.05759 (17122916) 653179.81 4183606.98 0.05875 (17122916)
653229.81 4183606.98 0.05588 (17122916) 653279.81 4183606.98 0.05461 (17121208)
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653429.81 4183606.98 0.05007 (17121208) 653479.81 4183606.98 0.04154 (17121208)
653529.81 4183606.98 0.04349 (17030308) 653579.81 4183606.98 0.05288 (17030308)
653629.81 4183606.98 0.05904 (17030308) 653679.81 4183606.98 0.06521 (17010616)
653729.81 4183606.98 0.06816 (17010616) 653779.81 4183606.98 0.06718 (17010616)
653829.81 4183606.98 0.06209 (17010616) 653879.81 4183606.98 0.05335 (17010616)
653929.81 4183606.98 0.04629 (17110708) 653979.81 4183606.98 0.04612 (17110708)
654029.81 4183606.98 0.04381 (17110708) 654079.81 4183606.98 0.04043 (17011608)
654129.81 4183606.98 0.04057 (17011608) 654179.81 4183606.98 0.03892 (17011608)
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654329.81 4183606.98 0.03658 (17022408) 654379.81 4183606.98 0.03566 (17022408)
654429.81 4183606.98 0.03365 (17022408) 654479.81 4183606.98 0.03073 (17022408)

654529.81 4183606.98 0.02785 (17011116) 654579.81
4183606.98 0.02900 (17011116)
654629.81 4183606.98 0.02971 (17011116) 654679.81
4183606.98 0.02998 (17011116)
654729.81 4183606.98 0.02981 (17011116) 654779.81
4183606.98 0.02921 (17011116)
654829.81 4183606.98 0.02824 (17011116) 654879.81
4183606.98 0.02696 (17011116)
654929.81 4183606.98 0.02543 (17011116) 654979.81
4183606.98 0.02372 (17011116)
655029.81 4183606.98 0.02190 (17011116) 655079.81
4183606.98 0.02003 (17011116)
655129.81 4183606.98 0.01816 (17011116) 652679.81
4183656.98 0.03528 (17122616)
652729.81 4183656.98 0.03466 (17122816) 652779.81
4183656.98 0.03382 (17122816)
652829.81 4183656.98 0.03223 (17122816) 652879.81
4183656.98 0.03046 (17121808)
652929.81 4183656.98 0.03462 (17122916) 652979.81
4183656.98 0.04144 (17122916)
653029.81 4183656.98 0.04745 (17122916) 653079.81
4183656.98 0.05169 (17122916)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653129.81	4183656.98	0.05321	(17122916)	653179.81	4183656.98	0.05147	(17122916)
653229.81	4183656.98	0.04772	(17121208)	653279.81	4183656.98	0.05149	(17121208)
653329.81	4183656.98	0.05188	(17121208)	653379.81	4183656.98	0.04867	(17121208)

653429.81 4183656.98 0.04241 (17121208) 653479.81 4183656.98 0.03424 (17121208)
653529.81 4183656.98 0.04108 (17030308) 653579.81 4183656.98 0.04950 (17030308)
653629.81 4183656.98 0.05498 (17030308) 653679.81 4183656.98 0.05963 (17010616)
653729.81 4183656.98 0.06271 (17010616) 653779.81 4183656.98 0.06221 (17010616)
653829.81 4183656.98 0.05796 (17010616) 653879.81 4183656.98 0.05036 (17010616)
653929.81 4183656.98 0.04251 (17110708) 653979.81 4183656.98 0.04309 (17110708)
654029.81 4183656.98 0.04175 (17110708) 654079.81 4183656.98 0.03861 (17110708)
654129.81 4183656.98 0.03798 (17011608) 654179.81 4183656.98 0.03742 (17011608)
654229.81 4183656.98 0.03526 (17011608) 654279.81 4183656.98 0.03288 (17022408)
654329.81 4183656.98 0.03393 (17022408) 654379.81 4183656.98 0.03402 (17022408)
654429.81 4183656.98 0.03310 (17022408) 654479.81 4183656.98 0.03123 (17022408)
654529.81 4183656.98 0.02857 (17022408) 654579.81 4183656.98 0.02537 (17022408)
654629.81 4183656.98 0.02592 (17011116) 654679.81 4183656.98 0.02676 (17011116)
654729.81 4183656.98 0.02722 (17011116) 654779.81 4183656.98 0.02729 (17011116)
654829.81 4183656.98 0.02698 (17011116) 654879.81 4183656.98 0.02634 (17011116)
654929.81 4183656.98 0.02539 (17011116) 654979.81 4183656.98 0.02418 (17011116)
655029.81 4183656.98 0.02279 (17011116) 655079.81 4183656.98 0.02126 (17011116)
655129.81 4183656.98 0.01966 (17011116) 652679.81 4183706.98 0.03106 (17122816)
652729.81 4183706.98 0.03001 (17122816) 652779.81 4183706.98 0.02847 (17121808)
652829.81 4183706.98 0.02704 (17121808) 652879.81 4183706.98 0.03164 (17122916)
652929.81 4183706.98 0.03756 (17122916) 652979.81 4183706.98 0.04284 (17122916)
653029.81 4183706.98 0.04671 (17122916) 653079.81 4183706.98 0.04844 (17122916)
653129.81 4183706.98 0.04748 (17122916) 653179.81 4183706.98 0.04379 (17122916)
653229.81 4183706.98 0.04601 (17121208) 653279.81 4183706.98 0.04773 (17121208)
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        653929.81   4183706.98        0.03900  (17010616)               653979.81
4183706.98        0.04014  (17110708)
        654029.81   4183706.98        0.03960  (17110708)               654079.81
4183706.98        0.03737  (17110708)
        654129.81   4183706.98        0.03520  (17011608)               654179.81
4183706.98        0.03552  (17011608)
        654229.81   4183706.98        0.03441  (17011608)               654279.81
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        654329.81   4183706.98        0.03087  (17022408)               654379.81
4183706.98        0.03175  (17022408)
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE 125
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     PAREA1      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        654629.81   4183706.98        0.02378  (17022408)               654679.81
4183706.98        0.02321  (17011116)
        654729.81   4183706.98        0.02414  (17011116)               654779.81
4183706.98        0.02473  (17011116)
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652829.81 4183756.98 0.02908 (17122916) 652879.81 4183756.98 0.03426 (17122916)
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653229.81 4183756.98 0.04354 (17121208) 653279.81 4183756.98 0.04364 (17121208)
653329.81 4183756.98 0.04114 (17121208) 653379.81 4183756.98 0.03637 (17121208)
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654429.81 4183756.98 0.02979 (17022408) 654479.81 4183756.98 0.02971 (17022408)
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654629.81 4183756.98 0.02499 (17022408) 654679.81 4183756.98 0.02236 (17022408)
654729.81 4183756.98 0.02083 (17011116) 654779.81 4183756.98 0.02180 (17011116)

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        655129.81   4183756.98        0.02084  (17011116)               652679.81
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        652929.81   4183806.98        0.03882  (17122916)               652979.81
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        653029.81   4183806.98        0.04065  (17122916)               653079.81
4183806.98        0.03867  (17122916)
        653129.81   4183806.98        0.03644  (17121208)               653179.81
4183806.98        0.03950  (17121208)
        653229.81   4183806.98        0.04060  (17121208)               653279.81
4183806.98        0.03946  (17121208)
        653329.81   4183806.98        0.03618  (17121208)               653379.81
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        653429.81   4183806.98        0.02524  (17121208)               653479.81
4183806.98        0.02791  (17030308)
        653529.81   4183806.98        0.03534  (17030308)               653579.81
4183806.98        0.04149  (17030308)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        653629.81   4183806.98        0.04535  (17030308)               653679.81
4183806.98        0.04716  (17010616)
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653929.81 4183806.98 0.03624 (17010616) 653979.81 4183806.98 0.03455 (17110708)
654029.81 4183806.98 0.03519 (17110708) 654079.81 4183806.98 0.03443 (17110708)
654129.81 4183806.98 0.03235 (17110708) 654179.81 4183806.98 0.03099 (17011608)
654229.81 4183806.98 0.03147 (17011608) 654279.81 4183806.98 0.03075 (17011608)
654329.81 4183806.98 0.02889 (17011608) 654379.81 4183806.98 0.02613 (17022408)
654429.81 4183806.98 0.02742 (17022408) 654479.81 4183806.98 0.02802 (17022408)
654529.81 4183806.98 0.02788 (17022408) 654579.81 4183806.98 0.02703 (17022408)
654629.81 4183806.98 0.02552 (17022408) 654679.81 4183806.98 0.02349 (17022408)
654729.81 4183806.98 0.02109 (17022408) 654779.81 4183806.98 0.01967 (17010908)
654829.81 4183806.98 0.01972 (17011116) 654879.81 4183806.98 0.02048 (17011116)
654929.81 4183806.98 0.02099 (17011116) 654979.81 4183806.98 0.02124 (17011116)
655029.81 4183806.98 0.02123 (17011116) 655079.81 4183806.98 0.02098 (17011116)
655129.81 4183806.98 0.02050 (17011116) 652679.81 4183856.98 0.02084 (17122916)
652729.81 4183856.98 0.02491 (17122916) 652779.81 4183856.98 0.02898 (17122916)
652829.81 4183856.98 0.03271 (17122916) 652879.81 4183856.98 0.03567 (17122916)
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653029.81 4183856.98 0.03634 (17122916) 653079.81 4183856.98 0.03330 (17122916)
653129.81 4183856.98 0.03570 (17121208) 653179.81 4183856.98 0.03749 (17121208)
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        653929.81   4183856.98        0.03499  (17010616)               653979.81
4183856.98        0.03193  (17110708)
        654029.81   4183856.98        0.03301  (17110708)               654079.81
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        654129.81   4183856.98        0.03137  (17110708)               654179.81
4183856.98        0.02888  (17110708)
        654229.81   4183856.98        0.02958  (17011608)               654279.81
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        654329.81   4183856.98        0.02848  (17011608)               654379.81
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        654429.81   4183856.98        0.02479  (17022408)               654479.81
4183856.98        0.02592  (17022408)
        654529.81   4183856.98        0.02641  (17022408)               654579.81
4183856.98        0.02624  (17022408)
        654629.81   4183856.98        0.02541  (17022408)               654679.81
4183856.98        0.02401  (17022408)
        654729.81   4183856.98        0.02214  (17022408)               654779.81
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        654929.81   4183856.98        0.01866  (17011116)               654979.81
4183856.98        0.01925  (17011116)
        655029.81   4183856.98        0.01960  (17011116)               655079.81
4183856.98        0.01973  (17011116)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        11:24:15

                                 PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
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653029.81 4183906.98 0.03175 (17122916) 653079.81 4183906.98 0.03221 (17121208)
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654129.81 4183906.98 0.03026 (17110708) 654179.81 4183906.98 0.02835 (17110708)
654229.81 4183906.98 0.02753 (17011608) 654279.81 4183906.98 0.02811 (17011608)
654329.81 4183906.98 0.02770 (17011608) 654379.81 4183906.98 0.02632 (17011608)
654429.81 4183906.98 0.02412 (17011608) 654479.81 4183906.98 0.02355 (17022408)
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4183956.98        0.03252  (17121208)
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4183956.98        0.02781  (17121208)
        653329.81   4183956.98        0.02382  (17121208)                653379.81
4183956.98        0.01932  (17121208)
        653429.81   4183956.98        0.01929  (17030308)                653479.81
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        653529.81   4183956.98        0.03099  (17030308)                653579.81
4183956.98        0.03555  (17030308)
        653629.81   4183956.98        0.03828  (17030308)                653679.81
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        653929.81   4183956.98        0.03272  (17010616)                653979.81
4183956.98        0.02711  (17110708)
        654029.81   4183956.98        0.02878  (17110708)                654079.81
4183956.98        0.02944  (17110708)

 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     PAREA1      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        654029.81   4184006.98        0.02677  (17110708)               654079.81
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        654129.81   4184006.98        0.02776  (17110708)               654179.81
4184006.98        0.02684  (17110708)
        654229.81   4184006.98        0.02510  (17110708)               654279.81
4184006.98        0.02463  (17011608)
        654329.81   4184006.98        0.02528  (17011608)               654379.81
4184006.98        0.02510  (17011608)
        654429.81   4184006.98        0.02409  (17011608)               654479.81
4184006.98        0.02237  (17011608)
        654529.81   4184006.98        0.02015  (17022408)               654579.81
4184006.98        0.02136  (17022408)
        654629.81   4184006.98        0.02212  (17022408)               654679.81
4184006.98        0.02239  (17022408)
        654729.81   4184006.98        0.02215  (17022408)               654779.81
4184006.98        0.02143  (17022408)
        654829.81   4184006.98        0.02029  (17022408)               654879.81
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 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                  PAGE 129
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD (  8760
HRS) RESULTS ***


                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                      NETWORK
GROUP ID                    AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.05576 AT (  653729.81,  4183056.98,     7.71,
    7.71,    0.00)  DC
          2ND HIGHEST VALUE IS       0.05163 AT (  653929.81,  4182856.98,     7.42,
    7.42,    0.00)  DC
```

```
      3RD HIGHEST VALUE IS       0.05098 AT (  653929.81,  4182806.98,     7.34,
   7.34,    0.00)  DC
      4TH HIGHEST VALUE IS       0.04878 AT (  653579.81,  4183006.98,     7.37,
   7.37,    0.00)  DC
      5TH HIGHEST VALUE IS       0.04849 AT (  653829.81,  4183006.98,     7.69,
   7.69,    0.00)  DC
      6TH HIGHEST VALUE IS       0.04721 AT (  653879.81,  4182756.98,     7.15,
   7.15,    0.00)  DC
      7TH HIGHEST VALUE IS       0.04492 AT (  653929.81,  4182906.98,     7.54,
   7.54,    0.00)  DC
      8TH HIGHEST VALUE IS       0.04471 AT (  653529.81,  4183056.98,     7.41,
   7.41,    0.00)  DC
      9TH HIGHEST VALUE IS       0.03748 AT (  653929.81,  4182756.98,     7.32,
   7.32,    0.00)  DC
     10TH HIGHEST VALUE IS       0.03401 AT (  653829.81,  4182756.98,     6.94,
   6.94,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/03/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        11:24:15

                                   PAGE 130
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
             **

                                                        DATE
                                          NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       3.09242  ON 17122609: AT (  653529.81,
4183056.98,     7.41,     7.41,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
```

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	NETWORK OF TYPE	GRID-ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)
ALL	HIGH	1ST HIGH VALUE IS	0.71451	ON 17010616:	AT	(653729.81, 4183056.98, 7.71, 7.71, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 6 Warning Message(s)
A Total of 228 Informational Message(s)

A Total of 8760 Hours Were Processed

```
A Total of           36 Calm Hours Identified

A Total of          192 Missing Hours Identified (  2.19 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     104       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     104       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W420    5704        METQA: Wind Speed Out-of-Range.   KURDAT =
17082616
MX W420    5728        METQA: Wind Speed Out-of-Range.   KURDAT =
17082716
MX W420    5734        METQA: Wind Speed Out-of-Range.   KURDAT =
17082722
MX W420    5740        METQA: Wind Speed Out-of-Range.   KURDAT =
17082804

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 3/4/2022
** File: C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_operations\Maverik
Manteca_operations.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_operations\Mave
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 762148
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Maverik Manteca_operations.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC SR-120 EB_Mainline to Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.0000721
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
** 651373.973, 4183627.372, 13.52, 3.15, 4.05
** 651490.563, 4183590.497, 14.86, 3.15, 4.05
** 652159.058, 4183381.290, 8.32, 3.15, 4.05
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** 652410.750, 4183303.847, 6.72, 3.15, 4.05
** 652591.979, 4183242.506, 7.32, 3.15, 4.05
** 652719.548, 4183208.198, 7.06, 3.15, 4.05
** 652804.483, 4183189.213, 6.92, 3.15, 4.05
** 652869.767, 4183178.554, 6.86, 3.15, 4.05
** 652970.024, 4183167.230, 6.83, 3.15, 4.05
** 653012.192, 4183164.258, 6.83, 3.15, 4.05
** 653070.277, 4183162.632, 6.84, 3.15, 4.05
** 653167.675, 4183163.371, 6.81, 3.15, 4.05
** 653328.735, 4183166.583, 6.92, 3.15, 4.05
** 653412.443, 4183165.244, 7.09, 3.15, 4.05
** ------------------------------------------------------------------
   LOCATION L0011332     VOLUME   651378.125 4183626.059 14.34
   LOCATION L0011333     VOLUME   651386.430 4183623.432 14.58
   LOCATION L0011334     VOLUME   651394.734 4183620.806 14.85
   LOCATION L0011335     VOLUME   651403.039 4183618.179 15.09
   LOCATION L0011336     VOLUME   651411.343 4183615.552 15.43
   LOCATION L0011337     VOLUME   651419.648 4183612.926 15.19
   LOCATION L0011338     VOLUME   651427.952 4183610.299 14.83
   LOCATION L0011339     VOLUME   651436.257 4183607.673 14.59
   LOCATION L0011340     VOLUME   651444.561 4183605.046 14.40
   LOCATION L0011341     VOLUME   651452.866 4183602.420 14.30
   LOCATION L0011342     VOLUME   651461.171 4183599.793 14.34
   LOCATION L0011343     VOLUME   651469.475 4183597.167 14.44
   LOCATION L0011344     VOLUME   651477.780 4183594.540 14.61
   LOCATION L0011345     VOLUME   651486.084 4183591.913 14.91
   LOCATION L0011346     VOLUME   651494.392 4183589.299 15.01
   LOCATION L0011347     VOLUME   651502.705 4183586.697 14.97
   LOCATION L0011348     VOLUME   651511.017 4183584.096 14.57
   LOCATION L0011349     VOLUME   651519.330 4183581.494 13.61
   LOCATION L0011350     VOLUME   651527.642 4183578.893 12.48
   LOCATION L0011351     VOLUME   651535.955 4183576.292 11.41
   LOCATION L0011352     VOLUME   651544.267 4183573.690 10.63
   LOCATION L0011353     VOLUME   651552.579 4183571.089 10.19
   LOCATION L0011354     VOLUME   651560.892 4183568.487 10.02
   LOCATION L0011355     VOLUME   651569.204 4183565.886 10.39
   LOCATION L0011356     VOLUME   651577.517 4183563.285 11.13
   LOCATION L0011357     VOLUME   651585.829 4183560.683 12.16
   LOCATION L0011358     VOLUME   651594.142 4183558.082 13.13
   LOCATION L0011359     VOLUME   651602.454 4183555.480 13.65
   LOCATION L0011360     VOLUME   651610.767 4183552.879 13.78
   LOCATION L0011361     VOLUME   651619.079 4183550.278 13.68
   LOCATION L0011362     VOLUME   651627.392 4183547.676 13.61
   LOCATION L0011363     VOLUME   651635.704 4183545.075 13.62
   LOCATION L0011364     VOLUME   651644.016 4183542.473 13.61
   LOCATION L0011365     VOLUME   651652.329 4183539.872 13.69
   LOCATION L0011366     VOLUME   651660.641 4183537.271 13.89
   LOCATION L0011367     VOLUME   651668.954 4183534.669 14.07
   LOCATION L0011368     VOLUME   651677.266 4183532.068 14.32
   LOCATION L0011369     VOLUME   651685.579 4183529.467 14.67
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LOCATION L0011372     VOLUME   651710.516 4183521.662 14.17
LOCATION L0011373     VOLUME   651718.829 4183519.061 13.92
LOCATION L0011374     VOLUME   651727.141 4183516.460 13.78
LOCATION L0011375     VOLUME   651735.453 4183513.858 13.76
LOCATION L0011376     VOLUME   651743.766 4183511.257 13.78
LOCATION L0011377     VOLUME   651752.078 4183508.655 13.92
LOCATION L0011378     VOLUME   651760.391 4183506.054 14.17
LOCATION L0011379     VOLUME   651768.703 4183503.453 14.35
LOCATION L0011380     VOLUME   651777.016 4183500.851 14.62
LOCATION L0011381     VOLUME   651785.328 4183498.250 14.87
LOCATION L0011382     VOLUME   651793.641 4183495.648 14.49
LOCATION L0011383     VOLUME   651801.953 4183493.047 14.19
LOCATION L0011384     VOLUME   651810.265 4183490.446 13.97
LOCATION L0011385     VOLUME   651818.578 4183487.844 13.78
LOCATION L0011386     VOLUME   651826.890 4183485.243 13.72
LOCATION L0011387     VOLUME   651835.203 4183482.641 13.76
LOCATION L0011388     VOLUME   651843.515 4183480.040 13.82
LOCATION L0011389     VOLUME   651851.828 4183477.439 14.00
LOCATION L0011390     VOLUME   651860.140 4183474.837 14.25
LOCATION L0011391     VOLUME   651868.453 4183472.236 14.43
LOCATION L0011392     VOLUME   651876.765 4183469.635 14.71
LOCATION L0011393     VOLUME   651885.078 4183467.033 14.44
LOCATION L0011394     VOLUME   651893.390 4183464.432 14.08
LOCATION L0011395     VOLUME   651901.702 4183461.830 13.82
LOCATION L0011396     VOLUME   651910.015 4183459.229 13.63
LOCATION L0011397     VOLUME   651918.327 4183456.628 13.47
LOCATION L0011398     VOLUME   651926.640 4183454.026 13.43
LOCATION L0011399     VOLUME   651934.952 4183451.425 13.46
LOCATION L0011400     VOLUME   651943.265 4183448.823 13.50
LOCATION L0011401     VOLUME   651951.577 4183446.222 13.64
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LOCATION L0011403     VOLUME   651968.202 4183441.019 13.86
LOCATION L0011404     VOLUME   651976.515 4183438.418 13.61
LOCATION L0011405     VOLUME   651984.827 4183435.816 13.20
LOCATION L0011406     VOLUME   651993.139 4183433.215 12.77
LOCATION L0011407     VOLUME   652001.452 4183430.614 12.45
LOCATION L0011408     VOLUME   652009.764 4183428.012 12.18
LOCATION L0011409     VOLUME   652018.077 4183425.411 11.94
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LOCATION L0011412     VOLUME   652043.014 4183417.607 11.64
LOCATION L0011413     VOLUME   652051.327 4183415.005 11.64
LOCATION L0011414     VOLUME   652059.639 4183412.404 11.60
LOCATION L0011415     VOLUME   652067.952 4183409.803 11.26
LOCATION L0011416     VOLUME   652076.264 4183407.201 10.82
LOCATION L0011417     VOLUME   652084.576 4183404.600 10.37
LOCATION L0011418     VOLUME   652092.889 4183401.998 9.95
LOCATION L0011419     VOLUME   652101.201 4183399.397 9.62
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LOCATION L0011420 VOLUME 652109.514 4183396.796 9.33
LOCATION L0011421 VOLUME 652117.826 4183394.194 9.07
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LOCATION L0011424 VOLUME 652142.764 4183386.390 8.57
LOCATION L0011425 VOLUME 652151.076 4183383.789 8.46
LOCATION L0011426 VOLUME 652159.389 4183381.189 8.23
LOCATION L0011427 VOLUME 652167.714 4183378.627 7.88
LOCATION L0011428 VOLUME 652176.039 4183376.066 7.58
LOCATION L0011429 VOLUME 652184.363 4183373.504 7.31
LOCATION L0011430 VOLUME 652192.688 4183370.943 7.08
LOCATION L0011431 VOLUME 652201.013 4183368.381 6.91
LOCATION L0011432 VOLUME 652209.338 4183365.820 6.75
LOCATION L0011433 VOLUME 652217.663 4183363.258 6.62
LOCATION L0011434 VOLUME 652225.988 4183360.697 6.53
LOCATION L0011435 VOLUME 652234.312 4183358.135 6.43
LOCATION L0011436 VOLUME 652242.637 4183355.574 6.34
LOCATION L0011437 VOLUME 652250.962 4183353.012 6.25
LOCATION L0011438 VOLUME 652259.287 4183350.451 6.06
LOCATION L0011439 VOLUME 652267.612 4183347.889 5.88
LOCATION L0011440 VOLUME 652275.937 4183345.328 5.73
LOCATION L0011441 VOLUME 652284.262 4183342.766 5.67
LOCATION L0011442 VOLUME 652292.586 4183340.205 5.66
LOCATION L0011443 VOLUME 652300.911 4183337.643 5.69
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LOCATION L0011445 VOLUME 652317.561 4183332.521 5.87
LOCATION L0011446 VOLUME 652325.886 4183329.959 5.99
LOCATION L0011447 VOLUME 652334.211 4183327.398 6.03
LOCATION L0011448 VOLUME 652342.535 4183324.836 6.08
LOCATION L0011449 VOLUME 652350.860 4183322.275 6.13
LOCATION L0011450 VOLUME 652359.185 4183319.713 6.20
LOCATION L0011451 VOLUME 652367.510 4183317.152 6.28
LOCATION L0011452 VOLUME 652375.835 4183314.590 6.37
LOCATION L0011453 VOLUME 652384.160 4183312.029 6.44
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LOCATION L0011455 VOLUME 652400.809 4183306.906 6.60
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LOCATION L0011457 VOLUME 652417.399 4183301.597 6.70
LOCATION L0011458 VOLUME 652425.649 4183298.804 6.76
LOCATION L0011459 VOLUME 652433.899 4183296.012 6.80
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LOCATION L0011467 VOLUME 652499.901 4183273.672 6.97
LOCATION L0011468 VOLUME 652508.151 4183270.879 7.04
LOCATION L0011469 VOLUME 652516.401 4183268.087 7.10

LOCATION L0011470 VOLUME 652524.652 4183265.294 7.16
LOCATION L0011471 VOLUME 652532.902 4183262.502 7.17
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LOCATION L0011473 VOLUME 652549.402 4183256.917 7.19
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LOCATION L0011475 VOLUME 652565.903 4183251.332 7.22
LOCATION L0011476 VOLUME 652574.153 4183248.539 7.24
LOCATION L0011477 VOLUME 652582.403 4183245.747 7.24
LOCATION L0011478 VOLUME 652590.653 4183242.954 7.25
LOCATION L0011479 VOLUME 652599.039 4183240.607 7.25
LOCATION L0011480 VOLUME 652607.450 4183238.345 7.24
LOCATION L0011481 VOLUME 652615.861 4183236.083 7.22
LOCATION L0011482 VOLUME 652624.272 4183233.821 7.18
LOCATION L0011483 VOLUME 652632.683 4183231.559 7.13
LOCATION L0011484 VOLUME 652641.094 4183229.297 7.09
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LOCATION L0011508 VOLUME 652844.718 4183182.644 6.87
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LOCATION L0011511 VOLUME 652870.512 4183178.470 6.85
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LOCATION L0011514 VOLUME 652896.477 4183175.537 6.83
LOCATION L0011515 VOLUME 652905.132 4183174.560 6.83
LOCATION L0011516 VOLUME 652913.787 4183173.582 6.83
LOCATION L0011517 VOLUME 652922.441 4183172.604 6.83
LOCATION L0011518 VOLUME 652931.096 4183171.627 6.83
LOCATION L0011519 VOLUME 652939.751 4183170.649 6.83

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LOCATION L0011520     VOLUME   652948.406 4183169.671 6.83
LOCATION L0011521     VOLUME   652957.061 4183168.694 6.83
LOCATION L0011522     VOLUME   652965.716 4183167.716 6.83
LOCATION L0011523     VOLUME   652974.388 4183166.922 6.83
LOCATION L0011524     VOLUME   652983.076 4183166.310 6.83
LOCATION L0011525     VOLUME   652991.765 4183165.697 6.83
LOCATION L0011526     VOLUME   653000.453 4183165.085 6.83
LOCATION L0011527     VOLUME   653009.142 4183164.473 6.83
LOCATION L0011528     VOLUME   653017.842 4183164.099 6.83
LOCATION L0011529     VOLUME   653026.549 4183163.856 6.83
LOCATION L0011530     VOLUME   653035.255 4183163.612 6.83
LOCATION L0011531     VOLUME   653043.962 4183163.368 6.84
LOCATION L0011532     VOLUME   653052.668 4183163.125 6.84
LOCATION L0011533     VOLUME   653061.375 4183162.881 6.84
LOCATION L0011534     VOLUME   653070.082 4183162.637 6.84
LOCATION L0011535     VOLUME   653078.791 4183162.696 6.84
LOCATION L0011536     VOLUME   653087.501 4183162.762 6.84
LOCATION L0011537     VOLUME   653096.211 4183162.829 6.84
LOCATION L0011538     VOLUME   653104.921 4183162.895 6.84
LOCATION L0011539     VOLUME   653113.630 4183162.961 6.84
LOCATION L0011540     VOLUME   653122.340 4183163.027 6.83
LOCATION L0011541     VOLUME   653131.050 4183163.093 6.83
LOCATION L0011542     VOLUME   653139.760 4183163.159 6.82
LOCATION L0011543     VOLUME   653148.469 4183163.225 6.82
LOCATION L0011544     VOLUME   653157.179 4183163.291 6.81
LOCATION L0011545     VOLUME   653165.889 4183163.357 6.81
LOCATION L0011546     VOLUME   653174.597 4183163.509 6.81
LOCATION L0011547     VOLUME   653183.306 4183163.682 6.81
LOCATION L0011548     VOLUME   653192.014 4183163.856 6.81
LOCATION L0011549     VOLUME   653200.722 4183164.030 6.81
LOCATION L0011550     VOLUME   653209.430 4183164.203 6.81
LOCATION L0011551     VOLUME   653218.139 4183164.377 6.81
LOCATION L0011552     VOLUME   653226.847 4183164.551 6.81
LOCATION L0011553     VOLUME   653235.555 4183164.724 6.81
LOCATION L0011554     VOLUME   653244.263 4183164.898 6.82
LOCATION L0011555     VOLUME   653252.972 4183165.072 6.82
LOCATION L0011556     VOLUME   653261.680 4183165.245 6.83
LOCATION L0011557     VOLUME   653270.388 4183165.419 6.83
LOCATION L0011558     VOLUME   653279.097 4183165.593 6.84
LOCATION L0011559     VOLUME   653287.805 4183165.766 6.85
LOCATION L0011560     VOLUME   653296.513 4183165.940 6.86
LOCATION L0011561     VOLUME   653305.221 4183166.114 6.86
LOCATION L0011562     VOLUME   653313.930 4183166.287 6.88
LOCATION L0011563     VOLUME   653322.638 4183166.461 6.89
LOCATION L0011564     VOLUME   653331.346 4183166.541 6.91
LOCATION L0011565     VOLUME   653340.055 4183166.402 6.92
LOCATION L0011566     VOLUME   653348.764 4183166.262 6.94
LOCATION L0011567     VOLUME   653357.473 4183166.123 6.95
LOCATION L0011568     VOLUME   653366.182 4183165.984 6.97
LOCATION L0011569     VOLUME   653374.891 4183165.845 6.98
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   LOCATION L0011570     VOLUME   653383.600 4183165.706 7.00
   LOCATION L0011571     VOLUME   653392.309 4183165.566 7.02
   LOCATION L0011572     VOLUME   653401.017 4183165.427 7.05
   LOCATION L0011573     VOLUME   653409.726 4183165.288 7.08
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SR-120 EB_Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 8.68E-06
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
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** 653443.694, 4183163.543, 7.22, 3.15, 4.05
** 653483.683, 4183160.720, 7.37, 3.15, 4.05
** 653509.558, 4183158.838, 7.48, 3.15, 4.05
** 653534.492, 4183156.172, 7.56, 3.15, 4.05
** 653555.506, 4183151.781, 7.61, 3.15, 4.05
** 653579.180, 4183145.869, 7.66, 3.15, 4.05
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** 653626.544, 4183126.265, 7.75, 3.15, 4.05
** 653651.011, 4183113.562, 7.75, 3.15, 4.05
** 653689.749, 4183092.389, 7.78, 3.15, 4.05
** 653765.803, 4183047.870, 7.72, 3.15, 4.05
** 653842.499, 4183005.994, 7.73, 3.15, 4.05
** 653912.879, 4182968.088, 7.71, 3.15, 4.05
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   LOCATION L0011575     VOLUME   653423.488 4183164.782 7.13
   LOCATION L0011576     VOLUME   653432.182 4183164.248 7.17
   LOCATION L0011577     VOLUME   653440.876 4183163.715 7.21
   LOCATION L0011578     VOLUME   653449.566 4183163.128 7.25
   LOCATION L0011579     VOLUME   653458.254 4183162.515 7.28
   LOCATION L0011580     VOLUME   653466.942 4183161.901 7.32
   LOCATION L0011581     VOLUME   653475.631 4183161.288 7.36
   LOCATION L0011582     VOLUME   653484.319 4183160.674 7.39
   LOCATION L0011583     VOLUME   653493.006 4183160.042 7.43
   LOCATION L0011584     VOLUME   653501.693 4183159.410 7.46
   LOCATION L0011585     VOLUME   653510.378 4183158.750 7.50
   LOCATION L0011586     VOLUME   653519.038 4183157.824 7.52
   LOCATION L0011587     VOLUME   653527.699 4183156.898 7.55
   LOCATION L0011588     VOLUME   653536.331 4183155.788 7.57
   LOCATION L0011589     VOLUME   653544.856 4183154.006 7.59
   LOCATION L0011590     VOLUME   653553.382 4183152.225 7.61
   LOCATION L0011591     VOLUME   653561.852 4183150.197 7.63
   LOCATION L0011592     VOLUME   653570.302 4183148.086 7.65
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   LOCATION L0011593     VOLUME   653578.753 4183145.976 7.67
   LOCATION L0011594     VOLUME   653586.930 4183142.986 7.68
   LOCATION L0011595     VOLUME   653595.094 4183139.948 7.70
   LOCATION L0011596     VOLUME   653603.257 4183136.911 7.71
   LOCATION L0011597     VOLUME   653611.241 4183133.446 7.72
   LOCATION L0011598     VOLUME   653619.126 4183129.746 7.73
   LOCATION L0011599     VOLUME   653627.002 4183126.028 7.73
   LOCATION L0011600     VOLUME   653634.732 4183122.014 7.74
   LOCATION L0011601     VOLUME   653642.462 4183118.000 7.75
   LOCATION L0011602     VOLUME   653650.192 4183113.987 7.76
   LOCATION L0011603     VOLUME   653657.844 4183109.827 7.76
   LOCATION L0011604     VOLUME   653665.487 4183105.649 7.75
   LOCATION L0011605     VOLUME   653673.130 4183101.472 7.75
   LOCATION L0011606     VOLUME   653680.773 4183097.295 7.75
   LOCATION L0011607     VOLUME   653688.416 4183093.117 7.75
   LOCATION L0011608     VOLUME   653695.955 4183088.756 7.75
   LOCATION L0011609     VOLUME   653703.471 4183084.356 7.75
   LOCATION L0011610     VOLUME   653710.988 4183079.956 7.75
   LOCATION L0011611     VOLUME   653718.505 4183075.556 7.76
   LOCATION L0011612     VOLUME   653726.022 4183071.156 7.76
   LOCATION L0011613     VOLUME   653733.539 4183066.756 7.75
   LOCATION L0011614     VOLUME   653741.056 4183062.356 7.75
   LOCATION L0011615     VOLUME   653748.573 4183057.956 7.74
   LOCATION L0011616     VOLUME   653756.090 4183053.556 7.74
   LOCATION L0011617     VOLUME   653763.607 4183049.156 7.74
   LOCATION L0011618     VOLUME   653771.214 4183044.916 7.74
   LOCATION L0011619     VOLUME   653778.859 4183040.742 7.74
   LOCATION L0011620     VOLUME   653786.503 4183036.568 7.73
   LOCATION L0011621     VOLUME   653794.148 4183032.393 7.73
   LOCATION L0011622     VOLUME   653801.793 4183028.219 7.73
   LOCATION L0011623     VOLUME   653809.437 4183024.045 7.72
   LOCATION L0011624     VOLUME   653817.082 4183019.871 7.72
   LOCATION L0011625     VOLUME   653824.727 4183015.697 7.72
   LOCATION L0011626     VOLUME   653832.371 4183011.523 7.71
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   LOCATION L0011628     VOLUME   653847.677 4183003.205 7.71
   LOCATION L0011629     VOLUME   653855.345 4182999.074 7.70
   LOCATION L0011630     VOLUME   653863.014 4182994.944 7.70
   LOCATION L0011631     VOLUME   653870.682 4182990.814 7.69
   LOCATION L0011632     VOLUME   653878.351 4182986.684 7.69
   LOCATION L0011633     VOLUME   653886.019 4182982.554 7.69
   LOCATION L0011634     VOLUME   653893.688 4182978.424 7.69
   LOCATION L0011635     VOLUME   653901.356 4182974.293 7.69
   LOCATION L0011636     VOLUME   653909.025 4182970.163 7.69
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Airport Way_Yosemite Ave to Atherton Dr
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.0000361
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   LOCATION L0011640     VOLUME   653878.567 4184720.474 8.60
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   LOCATION L0011642     VOLUME   653878.967 4184703.079 8.62
   LOCATION L0011643     VOLUME   653879.167 4184694.381 8.62
   LOCATION L0011644     VOLUME   653879.367 4184685.684 8.63
   LOCATION L0011645     VOLUME   653879.567 4184676.986 8.63
   LOCATION L0011646     VOLUME   653879.767 4184668.288 8.63
   LOCATION L0011647     VOLUME   653879.966 4184659.590 8.62
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   LOCATION L0011649     VOLUME   653880.366 4184642.195 8.62
   LOCATION L0011650     VOLUME   653880.566 4184633.497 8.61
   LOCATION L0011651     VOLUME   653880.766 4184624.800 8.61
   LOCATION L0011652     VOLUME   653880.966 4184616.102 8.60
   LOCATION L0011653     VOLUME   653881.166 4184607.404 8.60
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   LOCATION L0011656     VOLUME   653881.766 4184581.311 8.61
   LOCATION L0011657     VOLUME   653881.966 4184572.613 8.62
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   LOCATION L0011659     VOLUME   653882.366 4184555.218 8.63
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   LOCATION L0011661     VOLUME   653882.766 4184537.823 8.64
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   LOCATION L0011666     VOLUME   653883.765 4184494.334 8.56
   LOCATION L0011667     VOLUME   653883.965 4184485.636 8.51
   LOCATION L0011668     VOLUME   653884.146 4184476.938 8.47
   LOCATION L0011669     VOLUME   653884.291 4184468.240 8.42
   LOCATION L0011670     VOLUME   653884.435 4184459.541 8.39
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LOCATION L0011820 VOLUME 653914.824 4183154.963 8.21

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   LOCATION L0011823     VOLUME   653914.885 4183128.863 8.16
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   LOCATION L0011826     VOLUME   653914.946 4183102.763 8.10
   LOCATION L0011827     VOLUME   653914.967 4183094.064 8.07
   LOCATION L0011828     VOLUME   653914.987 4183085.364 8.05
   LOCATION L0011829     VOLUME   653915.007 4183076.664 8.03
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   LOCATION L0011833     VOLUME   653915.088 4183041.864 7.91
   LOCATION L0011834     VOLUME   653915.109 4183033.164 7.89
   LOCATION L0011835     VOLUME   653915.129 4183024.464 7.86
   LOCATION L0011836     VOLUME   653915.149 4183015.764 7.83
   LOCATION L0011837     VOLUME   653915.170 4183007.064 7.81
   LOCATION L0011838     VOLUME   653915.190 4182998.364 7.78
   LOCATION L0011839     VOLUME   653915.210 4182989.664 7.75
   LOCATION L0011840     VOLUME   653915.231 4182980.964 7.73
   LOCATION L0011841     VOLUME   653915.251 4182972.264 7.70
   LOCATION L0011842     VOLUME   653915.328 4182963.564 7.68
   LOCATION L0011843     VOLUME   653915.482 4182954.866 7.66
   LOCATION L0011844     VOLUME   653915.636 4182946.167 7.63
   LOCATION L0011845     VOLUME   653915.790 4182937.469 7.61
   LOCATION L0011846     VOLUME   653915.944 4182928.770 7.58
   LOCATION L0011847     VOLUME   653916.099 4182920.071 7.56
   LOCATION L0011848     VOLUME   653916.253 4182911.373 7.53
   LOCATION L0011849     VOLUME   653916.407 4182902.674 7.51
   LOCATION L0011850     VOLUME   653916.561 4182893.975 7.49
   LOCATION L0011851     VOLUME   653916.715 4182885.277 7.47
   LOCATION L0011852     VOLUME   653916.869 4182876.578 7.44
   LOCATION L0011853     VOLUME   653917.023 4182867.879 7.42
   LOCATION L0011854     VOLUME   653917.178 4182859.181 7.39
   LOCATION L0011855     VOLUME   653917.332 4182850.482 7.38
   LOCATION L0011856     VOLUME   653917.486 4182841.784 7.36
   LOCATION L0011857     VOLUME   653917.640 4182833.085 7.34
   LOCATION L0011858     VOLUME   653917.794 4182824.386 7.33
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   LOCATION L0011860     VOLUME   653918.102 4182806.989 7.31
   LOCATION L0011861     VOLUME   653918.257 4182798.290 7.29
   LOCATION L0011862     VOLUME   653918.411 4182789.592 7.29
   LOCATION L0011863     VOLUME   653918.565 4182780.893 7.29
   LOCATION L0011864     VOLUME   653918.719 4182772.194 7.29
   LOCATION L0011865     VOLUME   653918.873 4182763.496 7.28
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Atherton Drive_Airport Way to Grocery Store Driveway
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** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 0.0000524
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 12
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** 653846.557, 4182761.217, 7.04, 3.15, 4.05
** 653812.634, 4182769.034, 6.97, 3.15, 4.05
** 653789.143, 4182778.131, 6.94, 3.15, 4.05
** 653752.483, 4182796.166, 6.93, 3.15, 4.05
** 653699.099, 4182833.816, 6.93, 3.15, 4.05
** 653666.597, 4182868.140, 6.97, 3.15, 4.05
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** 653622.843, 4182921.801, 7.04, 3.15, 4.05
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   LOCATION L0011869     VOLUME   653886.467 4182756.765 7.17
   LOCATION L0011870     VOLUME   653877.802 4182757.352 7.14
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   LOCATION L0011872     VOLUME   653860.534 4182759.488 7.08
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   LOCATION L0011874     VOLUME   653843.325 4182761.962 7.01
   LOCATION L0011875     VOLUME   653834.847 4182763.915 6.96
   LOCATION L0011876     VOLUME   653826.369 4182765.869 6.93
   LOCATION L0011877     VOLUME   653817.892 4182767.823 6.92
   LOCATION L0011878     VOLUME   653809.552 4182770.228 6.91
   LOCATION L0011879     VOLUME   653801.439 4182773.369 6.91
   LOCATION L0011880     VOLUME   653793.327 4182776.511 6.91
   LOCATION L0011881     VOLUME   653785.362 4182779.991 6.91
   LOCATION L0011882     VOLUME   653777.556 4182783.832 6.92
   LOCATION L0011883     VOLUME   653769.749 4182787.672 6.92
   LOCATION L0011884     VOLUME   653761.943 4182791.513 6.93
   LOCATION L0011885     VOLUME   653754.136 4182795.353 6.93
   LOCATION L0011886     VOLUME   653746.879 4182800.119 6.94
   LOCATION L0011887     VOLUME   653739.769 4182805.133 6.95
   LOCATION L0011888     VOLUME   653732.659 4182810.147 6.95
   LOCATION L0011889     VOLUME   653725.550 4182815.161 6.95
   LOCATION L0011890     VOLUME   653718.440 4182820.176 6.95
   LOCATION L0011891     VOLUME   653711.330 4182825.190 6.95
   LOCATION L0011892     VOLUME   653704.221 4182830.204 6.95
   LOCATION L0011893     VOLUME   653697.426 4182835.583 6.94
   LOCATION L0011894     VOLUME   653691.444 4182841.900 6.94
   LOCATION L0011895     VOLUME   653685.463 4182848.217 6.94
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   LOCATION L0011898     VOLUME   653667.517 4182867.168 6.93
   LOCATION L0011899     VOLUME   653661.847 4182873.765 6.94
   LOCATION L0011900     VOLUME   653656.234 4182880.412 6.94
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   LOCATION L0011906     VOLUME   653623.454 4182921.029 7.05
   LOCATION L0011907     VOLUME   653618.339 4182928.065 7.08
   LOCATION L0011908     VOLUME   653613.260 4182935.129 7.10
   LOCATION L0011909     VOLUME   653608.181 4182942.192 7.14
   LOCATION L0011910     VOLUME   653603.102 4182949.256 7.17
   LOCATION L0011911     VOLUME   653598.023 4182956.320 7.20
   LOCATION L0011912     VOLUME   653592.945 4182963.383 7.23
   LOCATION L0011913     VOLUME   653587.866 4182970.447 7.26
   LOCATION L0011914     VOLUME   653582.787 4182977.511 7.29
   LOCATION L0011915     VOLUME   653577.708 4182984.574 7.31
   LOCATION L0011916     VOLUME   653572.629 4182991.638 7.33
   LOCATION L0011917     VOLUME   653567.300 4182998.500 7.34
   LOCATION L0011918     VOLUME   653561.469 4183004.956 7.35
   LOCATION L0011919     VOLUME   653555.637 4183011.413 7.36
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Airport Way_Fig Rd to Woodward Ave_55 mph
** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 0.000059
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 6
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** 653962.149, 4180819.252, 7.88, 3.15, 4.05
** 653959.138, 4180962.519, 7.96, 3.15, 4.05
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** 653927.444, 4182357.700, 7.65, 3.15, 4.05
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   LOCATION L0011921     VOLUME   653966.180 4180646.102 8.09
   LOCATION L0011922     VOLUME   653965.967 4180654.799 8.07
   LOCATION L0011923     VOLUME   653965.754 4180663.496 8.06
   LOCATION L0011924     VOLUME   653965.541 4180672.194 8.04
   LOCATION L0011925     VOLUME   653965.328 4180680.891 8.03
   LOCATION L0011926     VOLUME   653965.115 4180689.588 8.01
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LOCATION L0011927     VOLUME   653964.902 4180698.286 8.00
LOCATION L0011928     VOLUME   653964.694 4180706.983 7.99
LOCATION L0011929     VOLUME   653964.497 4180715.681 7.97
LOCATION L0011930     VOLUME   653964.300 4180724.379 7.96
LOCATION L0011931     VOLUME   653964.103 4180733.077 7.94
LOCATION L0011932     VOLUME   653963.905 4180741.774 7.94
LOCATION L0011933     VOLUME   653963.708 4180750.472 7.93
LOCATION L0011934     VOLUME   653963.511 4180759.170 7.92
LOCATION L0011935     VOLUME   653963.314 4180767.868 7.91
LOCATION L0011936     VOLUME   653963.117 4180776.566 7.90
LOCATION L0011937     VOLUME   653962.919 4180785.263 7.90
LOCATION L0011938     VOLUME   653962.722 4180793.961 7.89
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LOCATION L0011941     VOLUME   653962.132 4180820.054 7.88
LOCATION L0011942     VOLUME   653961.949 4180828.752 7.88
LOCATION L0011943     VOLUME   653961.767 4180837.451 7.89
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LOCATION L0011956     VOLUME   653959.390 4180950.526 7.94
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LOCATION L0011958     VOLUME   653959.018 4180967.922 7.97
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LOCATION L0011964     VOLUME   653957.858 4181020.109 8.05
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LOCATION L0011967     VOLUME   653957.279 4181046.202 8.12
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LOCATION L0011969     VOLUME   653956.892 4181063.598 8.20
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LOCATION L0011971     VOLUME   653956.505 4181080.994 8.24
LOCATION L0011972     VOLUME   653956.312 4181089.692 8.26
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LOCATION L0011974     VOLUME   653955.926 4181107.087 8.27
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LOCATION L0011976     VOLUME   653955.539 4181124.483 8.28
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LOCATION L0011993     VOLUME   653952.206 4181272.345 9.78
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LOCATION L0011996     VOLUME   653951.610 4181298.439 10.01
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LOCATION L0012025     VOLUME   653945.856 4181550.673 8.22
LOCATION L0012026     VOLUME   653945.657 4181559.371 8.20
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LOCATION L0012036 VOLUME 653943.673 4181646.348 8.08
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   LOCATION L0012079     VOLUME   653935.141 4182020.351 7.70
   LOCATION L0012080     VOLUME   653934.942 4182029.048 7.69
   LOCATION L0012081     VOLUME   653934.744 4182037.746 7.69
   LOCATION L0012082     VOLUME   653934.545 4182046.444 7.69
   LOCATION L0012083     VOLUME   653934.347 4182055.142 7.69
   LOCATION L0012084     VOLUME   653934.148 4182063.839 7.68
   LOCATION L0012085     VOLUME   653933.950 4182072.537 7.68
   LOCATION L0012086     VOLUME   653933.752 4182081.235 7.68
   LOCATION L0012087     VOLUME   653933.553 4182089.933 7.68
   LOCATION L0012088     VOLUME   653933.355 4182098.630 7.68
   LOCATION L0012089     VOLUME   653933.156 4182107.328 7.68
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   LOCATION L0012099     VOLUME   653931.172 4182194.305 7.71
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   LOCATION L0012102     VOLUME   653930.577 4182220.399 7.72
   LOCATION L0012103     VOLUME   653930.378 4182229.096 7.71
   LOCATION L0012104     VOLUME   653930.180 4182237.794 7.71
   LOCATION L0012105     VOLUME   653929.981 4182246.492 7.71
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   LOCATION L0012107     VOLUME   653929.585 4182263.887 7.70
   LOCATION L0012108     VOLUME   653929.386 4182272.585 7.70
   LOCATION L0012109     VOLUME   653929.188 4182281.283 7.70
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   LOCATION L0012111     VOLUME   653928.791 4182298.678 7.69
   LOCATION L0012112     VOLUME   653928.592 4182307.376 7.69
   LOCATION L0012113     VOLUME   653928.394 4182316.074 7.69
   LOCATION L0012114     VOLUME   653928.196 4182324.772 7.69
   LOCATION L0012115     VOLUME   653927.997 4182333.469 7.68
   LOCATION L0012116     VOLUME   653927.799 4182342.167 7.67
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** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Airport Way_Woodward Ave to Atherton Dr
** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 7.25E-06
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** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 8
** 653927.396, 4182356.369, 7.65, 3.15, 4.05
** 653925.855, 4182417.461, 7.56, 3.15, 4.05
** 653925.714, 4182484.679, 7.49, 3.15, 4.05
** 653924.647, 4182534.303, 7.38, 3.15, 4.05
** 653923.474, 4182628.600, 7.29, 3.15, 4.05
** 653922.407, 4182699.840, 7.31, 3.15, 4.05
** 653922.586, 4182735.918, 7.31, 3.15, 4.05
** 653919.467, 4182756.246, 7.28, 3.15, 4.05
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   LOCATION L0012118     VOLUME   653927.287 4182360.718 7.65
   LOCATION L0012119     VOLUME   653927.067 4182369.415 7.64
   LOCATION L0012120     VOLUME   653926.848 4182378.113 7.63
   LOCATION L0012121     VOLUME   653926.628 4182386.810 7.63
   LOCATION L0012122     VOLUME   653926.409 4182395.507 7.62
   LOCATION L0012123     VOLUME   653926.189 4182404.204 7.61
   LOCATION L0012124     VOLUME   653925.970 4182412.901 7.59
   LOCATION L0012125     VOLUME   653925.846 4182421.600 7.58
   LOCATION L0012126     VOLUME   653925.828 4182430.300 7.57
   LOCATION L0012127     VOLUME   653925.809 4182439.000 7.56
   LOCATION L0012128     VOLUME   653925.791 4182447.700 7.55
   LOCATION L0012129     VOLUME   653925.773 4182456.400 7.53
   LOCATION L0012130     VOLUME   653925.755 4182465.100 7.52
   LOCATION L0012131     VOLUME   653925.737 4182473.800 7.51
   LOCATION L0012132     VOLUME   653925.718 4182482.500 7.50
   LOCATION L0012133     VOLUME   653925.574 4182491.198 7.49
   LOCATION L0012134     VOLUME   653925.386 4182499.896 7.48
   LOCATION L0012135     VOLUME   653925.199 4182508.594 7.46
   LOCATION L0012136     VOLUME   653925.012 4182517.292 7.45
   LOCATION L0012137     VOLUME   653924.825 4182525.990 7.44
   LOCATION L0012138     VOLUME   653924.642 4182534.688 7.42
   LOCATION L0012139     VOLUME   653924.534 4182543.388 7.41
   LOCATION L0012140     VOLUME   653924.425 4182552.087 7.40
   LOCATION L0012141     VOLUME   653924.317 4182560.786 7.39
   LOCATION L0012142     VOLUME   653924.209 4182569.486 7.38
   LOCATION L0012143     VOLUME   653924.101 4182578.185 7.37
   LOCATION L0012144     VOLUME   653923.993 4182586.884 7.36
   LOCATION L0012145     VOLUME   653923.885 4182595.584 7.35
   LOCATION L0012146     VOLUME   653923.776 4182604.283 7.34
   LOCATION L0012147     VOLUME   653923.668 4182612.982 7.34
   LOCATION L0012148     VOLUME   653923.560 4182621.682 7.33
   LOCATION L0012149     VOLUME   653923.447 4182630.381 7.32
   LOCATION L0012150     VOLUME   653923.317 4182639.080 7.32
   LOCATION L0012151     VOLUME   653923.187 4182647.779 7.31
   LOCATION L0012152     VOLUME   653923.056 4182656.478 7.31
   LOCATION L0012153     VOLUME   653922.926 4182665.177 7.31
   LOCATION L0012154     VOLUME   653922.796 4182673.876 7.30
   LOCATION L0012155     VOLUME   653922.665 4182682.575 7.31
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   LOCATION L0012156     VOLUME   653922.535 4182691.274 7.31
   LOCATION L0012157     VOLUME   653922.407 4182699.973 7.31
   LOCATION L0012158     VOLUME   653922.451 4182708.673 7.31
   LOCATION L0012159     VOLUME   653922.494 4182717.373 7.30
   LOCATION L0012160     VOLUME   653922.537 4182726.073 7.30
   LOCATION L0012161     VOLUME   653922.581 4182734.773 7.30
   LOCATION L0012162     VOLUME   653921.440 4182743.385 7.29
   LOCATION L0012163     VOLUME   653920.121 4182751.985 7.29
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC On-SIte Truck Circulation_Grocery Store
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 1.45E-07
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
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** 653564.389, 4183038.028, 7.43, 3.15, 4.05
** 653584.341, 4183069.783, 7.51, 3.15, 4.05
** 653595.301, 4183090.860, 7.60, 3.15, 4.05
** 653605.698, 4183099.571, 7.63, 3.15, 4.05
** 653620.873, 4183100.695, 7.67, 3.15, 4.05
** 653645.884, 4183092.546, 7.70, 3.15, 4.05
** 653682.136, 4183071.188, 7.66, 3.15, 4.05
** 653708.270, 4183056.013, 7.68, 3.15, 4.05
** 653706.584, 4183044.491, 7.61, 3.15, 4.05
** 653696.468, 4183027.349, 7.55, 3.15, 4.05
** 653659.373, 4182961.029, 7.27, 3.15, 4.05
** 653634.924, 4182943.324, 7.16, 3.15, 4.05
** 653618.625, 4182930.679, 7.07, 3.15, 4.05
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   LOCATION L0012165     VOLUME   653557.170 4183028.086 7.40
   LOCATION L0012166     VOLUME   653562.288 4183035.134 7.42
   LOCATION L0012167     VOLUME   653567.120 4183042.375 7.44
   LOCATION L0012168     VOLUME   653571.754 4183049.750 7.46
   LOCATION L0012169     VOLUME   653576.388 4183057.125 7.48
   LOCATION L0012170     VOLUME   653581.022 4183064.500 7.50
   LOCATION L0012171     VOLUME   653585.481 4183071.975 7.52
   LOCATION L0012172     VOLUME   653589.499 4183079.703 7.55
   LOCATION L0012173     VOLUME   653593.518 4183087.431 7.57
   LOCATION L0012174     VOLUME   653599.015 4183093.971 7.60
   LOCATION L0012175     VOLUME   653605.691 4183099.565 7.63
   LOCATION L0012176     VOLUME   653614.375 4183100.214 7.65
   LOCATION L0012177     VOLUME   653622.959 4183100.016 7.66
   LOCATION L0012178     VOLUME   653631.241 4183097.317 7.67
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   LOCATION L0012180     VOLUME   653647.623 4183091.521 7.68
   LOCATION L0012181     VOLUME   653655.128 4183087.100 7.68
   LOCATION L0012182     VOLUME   653662.632 4183082.679 7.68
   LOCATION L0012183     VOLUME   653670.137 4183078.257 7.67
   LOCATION L0012184     VOLUME   653677.641 4183073.836 7.67
   LOCATION L0012185     VOLUME   653685.157 4183069.434 7.67
   LOCATION L0012186     VOLUME   653692.689 4183065.060 7.67
   LOCATION L0012187     VOLUME   653700.222 4183060.687 7.67
   LOCATION L0012188     VOLUME   653707.754 4183056.313 7.67
   LOCATION L0012189     VOLUME   653707.096 4183047.986 7.64
   LOCATION L0012190     VOLUME   653703.953 4183040.032 7.62
   LOCATION L0012191     VOLUME   653699.526 4183032.531 7.58
   LOCATION L0012192     VOLUME   653695.153 4183024.999 7.55
   LOCATION L0012193     VOLUME   653690.901 4183017.397 7.52
   LOCATION L0012194     VOLUME   653686.649 4183009.795 7.49
   LOCATION L0012195     VOLUME   653682.397 4183002.193 7.45
   LOCATION L0012196     VOLUME   653678.146 4182994.592 7.42
   LOCATION L0012197     VOLUME   653673.894 4182986.990 7.39
   LOCATION L0012198     VOLUME   653669.642 4182979.388 7.35
   LOCATION L0012199     VOLUME   653665.390 4182971.787 7.32
   LOCATION L0012200     VOLUME   653661.138 4182964.185 7.28
   LOCATION L0012201     VOLUME   653655.247 4182958.041 7.25
   LOCATION L0012202     VOLUME   653648.193 4182952.933 7.22
   LOCATION L0012203     VOLUME   653641.138 4182947.824 7.19
   LOCATION L0012204     VOLUME   653634.104 4182942.688 7.15
   LOCATION L0012205     VOLUME   653627.223 4182937.349 7.12
   LOCATION L0012206     VOLUME   653620.341 4182932.010 7.10
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC On-Site Truck Circulation_Gas Station
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 4.04E-06
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 18
** 653713.686, 4182824.816, 6.95, 3.15, 4.05
** 653720.591, 4182835.519, 6.97, 3.15, 4.05
** 653727.592, 4182847.579, 7.04, 3.15, 4.05
** 653734.984, 4182860.029, 7.05, 3.15, 4.05
** 653743.932, 4182870.533, 7.12, 3.15, 4.05
** 653751.324, 4182879.092, 7.16, 3.15, 4.05
** 653756.770, 4182883.372, 7.17, 3.15, 4.05
** 653761.828, 4182884.539, 7.18, 3.15, 4.05
** 653769.998, 4182882.204, 7.21, 3.15, 4.05
** 653775.445, 4182876.369, 7.20, 3.15, 4.05
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** 653778.946, 4182853.026, 7.14, 3.15, 4.05
** 653779.335, 4182836.297, 7.05, 3.15, 4.05
** 653781.280, 4182825.793, 7.06, 3.15, 4.05
** 653784.004, 4182815.289, 7.01, 3.15, 4.05
** 653783.615, 4182807.119, 6.98, 3.15, 4.05
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** 653777.036, 4182785.015, 6.94, 3.15, 4.05
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   LOCATION L0012208     VOLUME   653720.756 4182835.803 6.99
   LOCATION L0012209     VOLUME   653725.129 4182843.336 7.01
   LOCATION L0012210     VOLUME   653729.534 4182850.849 7.04
   LOCATION L0012211     VOLUME   653733.980 4182858.339 7.06
   LOCATION L0012212     VOLUME   653739.357 4182865.163 7.09
   LOCATION L0012213     VOLUME   653745.014 4182871.786 7.12
   LOCATION L0012214     VOLUME   653750.707 4182878.378 7.15
   LOCATION L0012215     VOLUME   653757.589 4182883.560 7.17
   LOCATION L0012216     VOLUME   653766.020 4182883.341 7.19
   LOCATION L0012217     VOLUME   653773.118 4182878.862 7.20
   LOCATION L0012218     VOLUME   653777.451 4182871.463 7.18
   LOCATION L0012219     VOLUME   653778.946 4182863.047 7.16
   LOCATION L0012220     VOLUME   653778.946 4182854.337 7.14
   LOCATION L0012221     VOLUME   653779.118 4182845.629 7.11
   LOCATION L0012222     VOLUME   653779.320 4182836.922 7.09
   LOCATION L0012223     VOLUME   653780.807 4182828.347 7.07
   LOCATION L0012224     VOLUME   653782.814 4182819.876 7.04
   LOCATION L0012225     VOLUME   653783.815 4182811.322 7.02
   LOCATION L0012226     VOLUME   653782.444 4182802.772 6.98
   LOCATION L0012227     VOLUME   653780.054 4182794.399 6.95
   LOCATION L0012228     VOLUME   653777.387 4182786.107 6.92
** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC SR 120 WB_Mainline to Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.000119
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 8
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** 654355.103, 4183237.302, 8.36, 3.15, 4.05
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** 654622.539, 4183235.890, 8.40, 3.15, 4.05
** 654951.065, 4183244.210, 8.51, 3.15, 4.05
** 655112.321, 4183246.251, 8.58, 3.15, 4.05
** 655450.583, 4183254.671, 8.84, 3.15, 4.05
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** 656042.038, 4183270.999, 10.34, 3.15, 4.05
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   LOCATION L0012234     VOLUME   654349.535 4183237.893 8.36
   LOCATION L0012235     VOLUME   654358.213 4183237.253 8.36
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   LOCATION L0012237     VOLUME   654375.631 4183236.978 8.36
   LOCATION L0012238     VOLUME   654384.340 4183236.840 8.37
   LOCATION L0012239     VOLUME   654393.049 4183236.702 8.37
   LOCATION L0012240     VOLUME   654401.758 4183236.564 8.37
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   LOCATION L0012244     VOLUME   654436.593 4183236.014 8.38
   LOCATION L0012245     VOLUME   654445.302 4183235.876 8.38
   LOCATION L0012246     VOLUME   654454.011 4183235.738 8.38
   LOCATION L0012247     VOLUME   654462.720 4183235.601 8.39
   LOCATION L0012248     VOLUME   654471.429 4183235.463 8.39
   LOCATION L0012249     VOLUME   654480.139 4183235.437 8.39
   LOCATION L0012250     VOLUME   654488.849 4183235.465 8.39
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   LOCATION L0012253     VOLUME   654514.978 4183235.548 8.39
   LOCATION L0012254     VOLUME   654523.688 4183235.576 8.40
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   LOCATION L0012256     VOLUME   654541.108 4183235.631 8.40
   LOCATION L0012257     VOLUME   654549.818 4183235.659 8.40
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   LOCATION L0012259     VOLUME   654567.238 4183235.714 8.40
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   LOCATION L0012269     VOLUME   654654.328 4183236.695 8.41
   LOCATION L0012270     VOLUME   654663.035 4183236.915 8.42
   LOCATION L0012271     VOLUME   654671.742 4183237.136 8.42
   LOCATION L0012272     VOLUME   654680.449 4183237.356 8.43
   LOCATION L0012273     VOLUME   654689.157 4183237.577 8.43
   LOCATION L0012274     VOLUME   654697.864 4183237.797 8.43
   LOCATION L0012275     VOLUME   654706.571 4183238.018 8.43
   LOCATION L0012276     VOLUME   654715.278 4183238.238 8.44
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LOCATION L0012334 VOLUME 655220.336 4183248.940 8.67
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LOCATION L0012342 VOLUME 655289.995 4183250.674 8.75
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LOCATION L0012344 VOLUME 655307.409 4183251.107 8.77
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LOCATION L0012372 VOLUME 655551.207 4183257.449 9.07
LOCATION L0012373 VOLUME 655559.913 4183257.689 9.13
LOCATION L0012374 VOLUME 655568.620 4183257.929 9.16
LOCATION L0012375 VOLUME 655577.327 4183258.170 9.20
LOCATION L0012376 VOLUME 655586.033 4183258.410 9.23

LOCATION L0012377 VOLUME 655594.740 4183258.651 9.26
LOCATION L0012378 VOLUME 655603.447 4183258.891 9.29
LOCATION L0012379 VOLUME 655612.153 4183259.131 9.31
LOCATION L0012380 VOLUME 655620.860 4183259.372 9.33
LOCATION L0012381 VOLUME 655629.567 4183259.612 9.35
LOCATION L0012382 VOLUME 655638.273 4183259.852 9.37
LOCATION L0012383 VOLUME 655646.980 4183260.093 9.39
LOCATION L0012384 VOLUME 655655.687 4183260.333 9.41
LOCATION L0012385 VOLUME 655664.393 4183260.573 9.44
LOCATION L0012386 VOLUME 655673.100 4183260.814 9.46
LOCATION L0012387 VOLUME 655681.807 4183261.054 9.48
LOCATION L0012388 VOLUME 655690.514 4183261.294 9.51
LOCATION L0012389 VOLUME 655699.220 4183261.535 9.54
LOCATION L0012390 VOLUME 655707.927 4183261.775 9.56
LOCATION L0012391 VOLUME 655716.634 4183262.016 9.59
LOCATION L0012392 VOLUME 655725.340 4183262.256 9.61
LOCATION L0012393 VOLUME 655734.047 4183262.496 9.63
LOCATION L0012394 VOLUME 655742.754 4183262.737 9.66
LOCATION L0012395 VOLUME 655751.460 4183262.977 9.68
LOCATION L0012396 VOLUME 655760.167 4183263.217 9.71
LOCATION L0012397 VOLUME 655768.874 4183263.458 9.73
LOCATION L0012398 VOLUME 655777.580 4183263.698 9.76
LOCATION L0012399 VOLUME 655786.287 4183263.938 9.78
LOCATION L0012400 VOLUME 655794.994 4183264.179 9.81
LOCATION L0012401 VOLUME 655803.700 4183264.419 9.83
LOCATION L0012402 VOLUME 655812.407 4183264.659 9.85
LOCATION L0012403 VOLUME 655821.114 4183264.900 9.88
LOCATION L0012404 VOLUME 655829.820 4183265.140 9.90
LOCATION L0012405 VOLUME 655838.527 4183265.381 9.92
LOCATION L0012406 VOLUME 655847.234 4183265.621 9.95
LOCATION L0012407 VOLUME 655855.940 4183265.861 9.97
LOCATION L0012408 VOLUME 655864.647 4183266.102 9.99
LOCATION L0012409 VOLUME 655873.354 4183266.342 10.01
LOCATION L0012410 VOLUME 655882.061 4183266.582 10.03
LOCATION L0012411 VOLUME 655890.767 4183266.823 10.05
LOCATION L0012412 VOLUME 655899.474 4183267.063 10.07
LOCATION L0012413 VOLUME 655908.181 4183267.303 10.08
LOCATION L0012414 VOLUME 655916.887 4183267.544 10.10
LOCATION L0012415 VOLUME 655925.594 4183267.784 10.12
LOCATION L0012416 VOLUME 655934.301 4183268.024 10.14
LOCATION L0012417 VOLUME 655943.007 4183268.265 10.16
LOCATION L0012418 VOLUME 655951.714 4183268.505 10.17
LOCATION L0012419 VOLUME 655960.421 4183268.746 10.19
LOCATION L0012420 VOLUME 655969.127 4183268.986 10.21
LOCATION L0012421 VOLUME 655977.834 4183269.226 10.23
LOCATION L0012422 VOLUME 655986.541 4183269.467 10.24
LOCATION L0012423 VOLUME 655995.247 4183269.707 10.26
LOCATION L0012424 VOLUME 656003.954 4183269.947 10.28
LOCATION L0012425 VOLUME 656012.661 4183270.188 10.29
LOCATION L0012426 VOLUME 656021.367 4183270.428 10.30

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   LOCATION L0012427     VOLUME   656030.074 4183270.668 10.32
   LOCATION L0012428     VOLUME   656038.781 4183270.909 10.34
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC I-10 WB_Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.0000138
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 11
** 654301.760, 4183242.835, 8.36, 3.15, 4.05
** 654285.076, 4183244.437, 8.36, 3.15, 4.05
** 654252.243, 4183250.576, 8.37, 3.15, 4.05
** 654215.005, 4183262.856, 8.37, 3.15, 4.05
** 654194.183, 4183272.065, 8.37, 3.15, 4.05
** 654125.640, 4183308.934, 8.39, 3.15, 4.05
** 654096.675, 4183326.654, 8.40, 3.15, 4.05
** 653952.343, 4183408.340, 8.34, 3.15, 4.05
** 653924.388, 4183423.259, 8.30, 3.15, 4.05
** 653918.577, 4183424.673, 8.30, 3.15, 4.05
** 653911.038, 4183424.987, 8.30, 3.15, 4.05
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   LOCATION L0012429     VOLUME   654297.425 4183243.251 8.36
   LOCATION L0012430     VOLUME   654288.755 4183244.084 8.36
   LOCATION L0012431     VOLUME   654280.147 4183245.358 8.36
   LOCATION L0012432     VOLUME   654271.585 4183246.959 8.36
   LOCATION L0012433     VOLUME   654263.024 4183248.560 8.36
   LOCATION L0012434     VOLUME   654254.462 4183250.161 8.37
   LOCATION L0012435     VOLUME   654246.115 4183252.597 8.37
   LOCATION L0012436     VOLUME   654237.843 4183255.325 8.37
   LOCATION L0012437     VOLUME   654229.571 4183258.052 8.37
   LOCATION L0012438     VOLUME   654221.299 4183260.780 8.37
   LOCATION L0012439     VOLUME   654213.101 4183263.698 8.37
   LOCATION L0012440     VOLUME   654205.135 4183267.221 8.37
   LOCATION L0012441     VOLUME   654197.170 4183270.744 8.37
   LOCATION L0012442     VOLUME   654189.388 4183274.644 8.37
   LOCATION L0012443     VOLUME   654181.718 4183278.770 8.37
   LOCATION L0012444     VOLUME   654174.047 4183282.896 8.37
   LOCATION L0012445     VOLUME   654166.376 4183287.022 8.38
   LOCATION L0012446     VOLUME   654158.705 4183291.148 8.38
   LOCATION L0012447     VOLUME   654151.035 4183295.274 8.39
   LOCATION L0012448     VOLUME   654143.364 4183299.400 8.39
   LOCATION L0012449     VOLUME   654135.693 4183303.526 8.39
   LOCATION L0012450     VOLUME   654128.022 4183307.652 8.40
   LOCATION L0012451     VOLUME   654120.518 4183312.067 8.40
   LOCATION L0012452     VOLUME   654113.088 4183316.613 8.40
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   LOCATION L0012453     VOLUME   654105.658 4183321.158 8.40
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   LOCATION L0012455     VOLUME   654090.679 4183330.047 8.40
   LOCATION L0012456     VOLUME   654083.099 4183334.337 8.40
   LOCATION L0012457     VOLUME   654075.519 4183338.627 8.41
   LOCATION L0012458     VOLUME   654067.939 4183342.918 8.41
   LOCATION L0012459     VOLUME   654060.359 4183347.208 8.41
   LOCATION L0012460     VOLUME   654052.778 4183351.498 8.41
   LOCATION L0012461     VOLUME   654045.198 4183355.788 8.40
   LOCATION L0012462     VOLUME   654037.618 4183360.078 8.39
   LOCATION L0012463     VOLUME   654030.038 4183364.368 8.40
   LOCATION L0012464     VOLUME   654022.458 4183368.658 8.40
   LOCATION L0012465     VOLUME   654014.877 4183372.948 8.39
   LOCATION L0012466     VOLUME   654007.297 4183377.238 8.39
   LOCATION L0012467     VOLUME   653999.717 4183381.528 8.38
   LOCATION L0012468     VOLUME   653992.137 4183385.818 8.37
   LOCATION L0012469     VOLUME   653984.556 4183390.108 8.37
   LOCATION L0012470     VOLUME   653976.976 4183394.398 8.36
   LOCATION L0012471     VOLUME   653969.396 4183398.688 8.36
   LOCATION L0012472     VOLUME   653961.816 4183402.978 8.35
   LOCATION L0012473     VOLUME   653954.236 4183407.268 8.34
   LOCATION L0012474     VOLUME   653946.577 4183411.417 8.33
   LOCATION L0012475     VOLUME   653938.893 4183415.518 8.32
   LOCATION L0012476     VOLUME   653931.209 4183419.619 8.32
   LOCATION L0012477     VOLUME   653923.438 4183423.490 8.31
   LOCATION L0012478     VOLUME   653914.873 4183424.827 8.30
** End of LINE VOLUME Source ID = SLINE10
   LOCATION STCK1        POINT      653597.000  4183060.590        7.510
** DESCRSRC Grocery Store Truck Idling - 1
   LOCATION STCK2        POINT      653603.170  4183057.740        7.510
** DESCRSRC Grocery Store Truck Idling - 2
   LOCATION STCK3        POINT      653785.420  4182840.770        7.110
** DESCRSRC Gas Station Truck Idling - 1
   LOCATION STCK4        POINT      653791.720  4182841.400        7.120
** DESCRSRC Gas Station Truck Idling - 2
   LOCATION STCK5        POINT      653798.010  4182842.030        7.130
** DESCRSRC Gas Station Truck Idling - 3
   LOCATION STCK6        POINT      653803.460  4182841.610        7.140
** DESCRSRC Gas Station Truck Idling - 4
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0011334     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011335     0.0000002979      3.15      4.05      2.93
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   SRCPARAM L0011340     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011504     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011505     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011506     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011507     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011508     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011509     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011510     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011511     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011512     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011513     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011514     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011515     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011516     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011517     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011518     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011519     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011520     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011521     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011522     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011523     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011524     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011525     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011526     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011527     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011528     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011529     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011530     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011531     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011532     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011533     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011534     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011535     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011536     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011537     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011538     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011539     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011540     0.0000002979      3.15      4.05      2.93
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   SRCPARAM L0011541     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011542     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011543     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011544     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011545     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011546     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011547     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011548     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011549     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011550     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011551     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011552     0.0000002979      3.15      4.05      2.93
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   SRCPARAM L0011560     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011561     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011562     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011563     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011564     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011565     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011566     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011567     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011568     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011569     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011570     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011571     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011572     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011573     0.0000002979      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0011574     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011575     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011576     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011577     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011578     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011579     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011580     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011581     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011582     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011583     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011584     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011585     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011586     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011587     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011588     0.0000001378      3.15      4.05      2.93
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   SRCPARAM L0011589     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011590     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011591     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011592     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011593     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011594     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011595     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011596     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011597     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011598     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011599     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011600     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011601     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011602     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011603     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011604     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011605     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011606     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011607     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011608     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011609     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011610     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011611     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011612     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011613     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011614     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011615     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011616     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011617     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011618     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011619     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011620     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011621     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011622     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011623     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011624     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011625     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011626     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011627     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011628     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011629     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011630     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011631     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011632     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011633     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011634     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011635     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011636     0.0000001378      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0011637     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011638     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011639     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011640     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011641     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011642     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011643     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011644     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011645     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011646     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011647     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011648     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011649     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011650     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011651     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011652     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011653     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011654     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011655     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011656     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011657     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011658     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011659     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011660     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011661     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011662     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011663     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011664     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011665     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011666     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011667     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011668     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011669     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011670     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011671     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011672     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011673     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011674     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011675     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011676     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011677     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011678     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011679     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011680     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011681     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011682     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011683     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011684     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011685     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011686     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011687     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011688     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011691     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011693     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011697     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011698     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011699     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011700     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011701     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011702     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011703     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011704     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011709     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011710     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011711     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011712     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011713     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011714     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011715     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011716     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011717     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011718     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011719     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011720     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011721     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011722     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011723     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011725     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011726     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011727     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011730     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011731     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011732     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011733     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011734     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011736     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011749     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011773     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011782     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011785     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011786     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011787     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011788     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011789     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011791     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011793     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011794     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011795     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011796     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011797     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011798     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011799     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011800     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011801     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011802     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011803     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011804     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011805     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011806     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011807     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011808     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011809     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011810     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011811     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011812     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011813     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011814     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011815     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011816     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011817     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011818     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011819     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011820     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011821     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011822     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011823     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011824     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011825     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011826     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011827     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011829     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011830     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011831     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011832     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011833     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011834     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011835     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011836     0.0000001576      3.15      4.05      2.93
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   SRCPARAM L0011837     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011838     0.0000001576      3.15      4.05      2.93
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   SRCPARAM L0011842     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011843     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011844     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011845     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011846     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011847     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011848     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011849     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011850     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011851     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011852     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011853     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011854     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011855     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011856     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011857     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011858     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011859     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011860     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011861     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011862     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011863     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011864     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011865     0.0000001576      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0011867     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011868     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011869     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011870     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011871     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011872     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011873     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011874     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011875     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011876     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011877     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011878     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011879     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011880     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011881     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011882     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011883     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011884     0.0000009704      3.15      4.05      2.93
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   SRCPARAM L0011885     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011886     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011887     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011888     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011889     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011890     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011891     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011892     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011893     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011894     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011895     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011896     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011897     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011898     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011899     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011900     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011901     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011902     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011903     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011904     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011905     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011906     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011907     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011908     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011909     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011910     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011911     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011912     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011913     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011914     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011915     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011916     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011917     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011918     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011919     0.0000009704      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE5
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   SRCPARAM L0011922     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011923     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011924     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011925     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011926     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011927     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011928     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011929     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011930     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011931     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011932     0.000000298      3.15      4.05      2.93
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SRCPARAM L0011933     0.000000298      3.15      4.05      2.93
SRCPARAM L0011934     0.000000298      3.15      4.05      2.93
SRCPARAM L0011935     0.000000298      3.15      4.05      2.93
SRCPARAM L0011936     0.000000298      3.15      4.05      2.93
SRCPARAM L0011937     0.000000298      3.15      4.05      2.93
SRCPARAM L0011938     0.000000298      3.15      4.05      2.93
SRCPARAM L0011939     0.000000298      3.15      4.05      2.93
SRCPARAM L0011940     0.000000298      3.15      4.05      2.93
SRCPARAM L0011941     0.000000298      3.15      4.05      2.93
SRCPARAM L0011942     0.000000298      3.15      4.05      2.93
SRCPARAM L0011943     0.000000298      3.15      4.05      2.93
SRCPARAM L0011944     0.000000298      3.15      4.05      2.93
SRCPARAM L0011945     0.000000298      3.15      4.05      2.93
SRCPARAM L0011946     0.000000298      3.15      4.05      2.93
SRCPARAM L0011947     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012081     0.000000298      3.15      4.05      2.93
SRCPARAM L0012082     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012088     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012089     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012090     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012091     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012092     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012093     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012094     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012095     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012096     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012097     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012098     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012099     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012100     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012102     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012105     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012106     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012107     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012108     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012109     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012110     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012111     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012112     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012113     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012114     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012115     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012116     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012117     0.000000298      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0012118     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012119     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012120     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012121     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012122     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012123     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012124     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012125     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012126     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012127     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012128     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012129     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012130     0.0000001576      3.15      4.05      2.93
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   SRCPARAM L0012131     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012132     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012133     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012134     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012135     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012136     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012137     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012138     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012139     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012140     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012141     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012142     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012143     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012144     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012145     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012146     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012147     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012148     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012149     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012150     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012151     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012152     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012153     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012154     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012155     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012156     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012157     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012158     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012159     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012160     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012161     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012162     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012163     0.0000001576      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0012164     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012165     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012166     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012167     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012168     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012169     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012170     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012171     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012172     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012173     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012174     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012175     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012176     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012177     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012178     0.000000003372      3.15      4.05      2.93
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   SRCPARAM L0012179     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012180     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012181     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012182     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012183     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012184     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012185     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012186     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012187     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012188     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012189     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012190     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012191     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012192     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012193     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012194     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012195     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012196     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012197     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012198     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012199     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012200     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012201     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012202     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012203     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012204     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012205     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012206     0.000000003372      3.15      4.05      2.93
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0012207     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012208     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012209     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012210     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012211     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012212     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012213     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012214     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012215     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012216     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012217     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012218     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012219     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012220     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012221     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012222     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012223     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012224     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012225     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012226     0.0000001836      3.15      4.05      2.93
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   SRCPARAM L0012227     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012228     0.0000001836      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0012229     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012230     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012231     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012232     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012233     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012234     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012235     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012236     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012237     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012238     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012239     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012240     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012241     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012242     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012243     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012244     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012245     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012246     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012247     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012248     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012249     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012250     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012251     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012252     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012253     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012254     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012255     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012256     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012257     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012258     0.000000595       3.15      4.05      2.93
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   SRCPARAM L0012260     0.000000595       3.15      4.05      2.93
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   SRCPARAM L0012262     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012263     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012264     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012265     0.000000595       3.15      4.05      2.93
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SRCPARAM L0012392     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012395     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012404     0.000000595      3.15      4.05      2.93
SRCPARAM L0012405     0.000000595      3.15      4.05      2.93
SRCPARAM L0012406     0.000000595      3.15      4.05      2.93
SRCPARAM L0012407     0.000000595      3.15      4.05      2.93
SRCPARAM L0012408     0.000000595      3.15      4.05      2.93
SRCPARAM L0012409     0.000000595      3.15      4.05      2.93
SRCPARAM L0012410     0.000000595      3.15      4.05      2.93
SRCPARAM L0012411     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012419     0.000000595      3.15      4.05      2.93
SRCPARAM L0012420     0.000000595      3.15      4.05      2.93
SRCPARAM L0012421     0.000000595      3.15      4.05      2.93
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   SRCPARAM L0012465     0.000000276      3.15      4.05      2.93
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   SRCPARAM L0012470     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012471     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012472     0.000000276      3.15      4.05      2.93
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   SRCPARAM L0012476     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012477     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012478     0.000000276      3.15      4.05      2.93
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   SRCPARAM STCK3         0.000108     0.000   366.000  49.99000     0.100
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   SRCPARAM STCK5         0.000108     0.000   366.000  49.99000     0.100
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   SRCGROUP ALL
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   INCLUDED "Maverik Manteca_operations.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
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   PROFFILE AERMET\2017_Stockton.PFL
   SURFDATA 23237 2017
   UAIRDATA 23230 2017 OAKLAND/WSO_AP
   PROFBASE 7.9 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
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   SUMMFILE "Maverik Manteca_operations.sum"
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** Project Parameters
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 3/4/2022
** File: C:\Lakes\AERMOD View\Maverik Manteca\Maverik Manteca_operations\Maverik
Manteca_operations.ADI
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** AERMOD Control Pathway
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 762148
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Maverik Manteca_operations.err"
CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC SR-120 EB_Mainline to Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.0000721
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
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LOCATION L0011419     VOLUME   652101.201 4183399.397 9.62
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LOCATION L0011469 VOLUME 652516.401 4183268.087 7.10

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LOCATION L0011482 VOLUME 652624.272 4183233.821 7.18
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LOCATION L0011486 VOLUME 652657.917 4183224.773 7.05
LOCATION L0011487 VOLUME 652666.328 4183222.511 7.03
LOCATION L0011488 VOLUME 652674.739 4183220.249 7.02
LOCATION L0011489 VOLUME 652683.150 4183217.987 7.02
LOCATION L0011490 VOLUME 652691.561 4183215.725 7.02
LOCATION L0011491 VOLUME 652699.972 4183213.463 7.03
LOCATION L0011492 VOLUME 652708.384 4183211.201 7.04
LOCATION L0011493 VOLUME 652716.795 4183208.939 7.06
LOCATION L0011494 VOLUME 652725.266 4183206.920 7.06
LOCATION L0011495 VOLUME 652733.766 4183205.020 7.06
LOCATION L0011496 VOLUME 652742.266 4183203.120 7.06
LOCATION L0011497 VOLUME 652750.766 4183201.220 7.05
LOCATION L0011498 VOLUME 652759.267 4183199.320 7.03
LOCATION L0011499 VOLUME 652767.767 4183197.420 7.01
LOCATION L0011500 VOLUME 652776.267 4183195.520 6.99
LOCATION L0011501 VOLUME 652784.767 4183193.620 6.97
LOCATION L0011502 VOLUME 652793.268 4183191.720 6.95
LOCATION L0011503 VOLUME 652801.768 4183189.820 6.93
LOCATION L0011504 VOLUME 652810.333 4183188.258 6.92
LOCATION L0011505 VOLUME 652818.930 4183186.854 6.90
LOCATION L0011506 VOLUME 652827.526 4183185.451 6.89
LOCATION L0011507 VOLUME 652836.122 4183184.047 6.88
LOCATION L0011508 VOLUME 652844.718 4183182.644 6.87
LOCATION L0011509 VOLUME 652853.314 4183181.240 6.87
LOCATION L0011510 VOLUME 652861.910 4183179.837 6.86
LOCATION L0011511 VOLUME 652870.512 4183178.470 6.85
LOCATION L0011512 VOLUME 652879.167 4183177.493 6.84
LOCATION L0011513 VOLUME 652887.822 4183176.515 6.84
LOCATION L0011514 VOLUME 652896.477 4183175.537 6.83
LOCATION L0011515 VOLUME 652905.132 4183174.560 6.83
LOCATION L0011516 VOLUME 652913.787 4183173.582 6.83
LOCATION L0011517 VOLUME 652922.441 4183172.604 6.83
LOCATION L0011518 VOLUME 652931.096 4183171.627 6.83
LOCATION L0011519 VOLUME 652939.751 4183170.649 6.83

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LOCATION L0011520     VOLUME   652948.406 4183169.671 6.83
LOCATION L0011521     VOLUME   652957.061 4183168.694 6.83
LOCATION L0011522     VOLUME   652965.716 4183167.716 6.83
LOCATION L0011523     VOLUME   652974.388 4183166.922 6.83
LOCATION L0011524     VOLUME   652983.076 4183166.310 6.83
LOCATION L0011525     VOLUME   652991.765 4183165.697 6.83
LOCATION L0011526     VOLUME   653000.453 4183165.085 6.83
LOCATION L0011527     VOLUME   653009.142 4183164.473 6.83
LOCATION L0011528     VOLUME   653017.842 4183164.099 6.83
LOCATION L0011529     VOLUME   653026.549 4183163.856 6.83
LOCATION L0011530     VOLUME   653035.255 4183163.612 6.83
LOCATION L0011531     VOLUME   653043.962 4183163.368 6.84
LOCATION L0011532     VOLUME   653052.668 4183163.125 6.84
LOCATION L0011533     VOLUME   653061.375 4183162.881 6.84
LOCATION L0011534     VOLUME   653070.082 4183162.637 6.84
LOCATION L0011535     VOLUME   653078.791 4183162.696 6.84
LOCATION L0011536     VOLUME   653087.501 4183162.762 6.84
LOCATION L0011537     VOLUME   653096.211 4183162.829 6.84
LOCATION L0011538     VOLUME   653104.921 4183162.895 6.84
LOCATION L0011539     VOLUME   653113.630 4183162.961 6.84
LOCATION L0011540     VOLUME   653122.340 4183163.027 6.83
LOCATION L0011541     VOLUME   653131.050 4183163.093 6.83
LOCATION L0011542     VOLUME   653139.760 4183163.159 6.82
LOCATION L0011543     VOLUME   653148.469 4183163.225 6.82
LOCATION L0011544     VOLUME   653157.179 4183163.291 6.81
LOCATION L0011545     VOLUME   653165.889 4183163.357 6.81
LOCATION L0011546     VOLUME   653174.597 4183163.509 6.81
LOCATION L0011547     VOLUME   653183.306 4183163.682 6.81
LOCATION L0011548     VOLUME   653192.014 4183163.856 6.81
LOCATION L0011549     VOLUME   653200.722 4183164.030 6.81
LOCATION L0011550     VOLUME   653209.430 4183164.203 6.81
LOCATION L0011551     VOLUME   653218.139 4183164.377 6.81
LOCATION L0011552     VOLUME   653226.847 4183164.551 6.81
LOCATION L0011553     VOLUME   653235.555 4183164.724 6.81
LOCATION L0011554     VOLUME   653244.263 4183164.898 6.82
LOCATION L0011555     VOLUME   653252.972 4183165.072 6.82
LOCATION L0011556     VOLUME   653261.680 4183165.245 6.83
LOCATION L0011557     VOLUME   653270.388 4183165.419 6.83
LOCATION L0011558     VOLUME   653279.097 4183165.593 6.84
LOCATION L0011559     VOLUME   653287.805 4183165.766 6.85
LOCATION L0011560     VOLUME   653296.513 4183165.940 6.86
LOCATION L0011561     VOLUME   653305.221 4183166.114 6.86
LOCATION L0011562     VOLUME   653313.930 4183166.287 6.88
LOCATION L0011563     VOLUME   653322.638 4183166.461 6.89
LOCATION L0011564     VOLUME   653331.346 4183166.541 6.91
LOCATION L0011565     VOLUME   653340.055 4183166.402 6.92
LOCATION L0011566     VOLUME   653348.764 4183166.262 6.94
LOCATION L0011567     VOLUME   653357.473 4183166.123 6.95
LOCATION L0011568     VOLUME   653366.182 4183165.984 6.97
LOCATION L0011569     VOLUME   653374.891 4183165.845 6.98
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   LOCATION L0011570     VOLUME   653383.600 4183165.706 7.00
   LOCATION L0011571     VOLUME   653392.309 4183165.566 7.02
   LOCATION L0011572     VOLUME   653401.017 4183165.427 7.05
   LOCATION L0011573     VOLUME   653409.726 4183165.288 7.08
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SR-120 EB_Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 8.68E-06
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
** 653410.448, 4183165.581, 7.08, 3.15, 4.05
** 653443.694, 4183163.543, 7.22, 3.15, 4.05
** 653483.683, 4183160.720, 7.37, 3.15, 4.05
** 653509.558, 4183158.838, 7.48, 3.15, 4.05
** 653534.492, 4183156.172, 7.56, 3.15, 4.05
** 653555.506, 4183151.781, 7.61, 3.15, 4.05
** 653579.180, 4183145.869, 7.66, 3.15, 4.05
** 653606.156, 4183135.832, 7.70, 3.15, 4.05
** 653626.544, 4183126.265, 7.75, 3.15, 4.05
** 653651.011, 4183113.562, 7.75, 3.15, 4.05
** 653689.749, 4183092.389, 7.78, 3.15, 4.05
** 653765.803, 4183047.870, 7.72, 3.15, 4.05
** 653842.499, 4183005.994, 7.73, 3.15, 4.05
** 653912.879, 4182968.088, 7.71, 3.15, 4.05
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   LOCATION L0011575     VOLUME   653423.488 4183164.782 7.13
   LOCATION L0011576     VOLUME   653432.182 4183164.248 7.17
   LOCATION L0011577     VOLUME   653440.876 4183163.715 7.21
   LOCATION L0011578     VOLUME   653449.566 4183163.128 7.25
   LOCATION L0011579     VOLUME   653458.254 4183162.515 7.28
   LOCATION L0011580     VOLUME   653466.942 4183161.901 7.32
   LOCATION L0011581     VOLUME   653475.631 4183161.288 7.36
   LOCATION L0011582     VOLUME   653484.319 4183160.674 7.39
   LOCATION L0011583     VOLUME   653493.006 4183160.042 7.43
   LOCATION L0011584     VOLUME   653501.693 4183159.410 7.46
   LOCATION L0011585     VOLUME   653510.378 4183158.750 7.50
   LOCATION L0011586     VOLUME   653519.038 4183157.824 7.52
   LOCATION L0011587     VOLUME   653527.699 4183156.898 7.55
   LOCATION L0011588     VOLUME   653536.331 4183155.788 7.57
   LOCATION L0011589     VOLUME   653544.856 4183154.006 7.59
   LOCATION L0011590     VOLUME   653553.382 4183152.225 7.61
   LOCATION L0011591     VOLUME   653561.852 4183150.197 7.63
   LOCATION L0011592     VOLUME   653570.302 4183148.086 7.65
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   LOCATION L0011593     VOLUME   653578.753 4183145.976 7.67
   LOCATION L0011594     VOLUME   653586.930 4183142.986 7.68
   LOCATION L0011595     VOLUME   653595.094 4183139.948 7.70
   LOCATION L0011596     VOLUME   653603.257 4183136.911 7.71
   LOCATION L0011597     VOLUME   653611.241 4183133.446 7.72
   LOCATION L0011598     VOLUME   653619.126 4183129.746 7.73
   LOCATION L0011599     VOLUME   653627.002 4183126.028 7.73
   LOCATION L0011600     VOLUME   653634.732 4183122.014 7.74
   LOCATION L0011601     VOLUME   653642.462 4183118.000 7.75
   LOCATION L0011602     VOLUME   653650.192 4183113.987 7.76
   LOCATION L0011603     VOLUME   653657.844 4183109.827 7.76
   LOCATION L0011604     VOLUME   653665.487 4183105.649 7.75
   LOCATION L0011605     VOLUME   653673.130 4183101.472 7.75
   LOCATION L0011606     VOLUME   653680.773 4183097.295 7.75
   LOCATION L0011607     VOLUME   653688.416 4183093.117 7.75
   LOCATION L0011608     VOLUME   653695.955 4183088.756 7.75
   LOCATION L0011609     VOLUME   653703.471 4183084.356 7.75
   LOCATION L0011610     VOLUME   653710.988 4183079.956 7.75
   LOCATION L0011611     VOLUME   653718.505 4183075.556 7.76
   LOCATION L0011612     VOLUME   653726.022 4183071.156 7.76
   LOCATION L0011613     VOLUME   653733.539 4183066.756 7.75
   LOCATION L0011614     VOLUME   653741.056 4183062.356 7.75
   LOCATION L0011615     VOLUME   653748.573 4183057.956 7.74
   LOCATION L0011616     VOLUME   653756.090 4183053.556 7.74
   LOCATION L0011617     VOLUME   653763.607 4183049.156 7.74
   LOCATION L0011618     VOLUME   653771.214 4183044.916 7.74
   LOCATION L0011619     VOLUME   653778.859 4183040.742 7.74
   LOCATION L0011620     VOLUME   653786.503 4183036.568 7.73
   LOCATION L0011621     VOLUME   653794.148 4183032.393 7.73
   LOCATION L0011622     VOLUME   653801.793 4183028.219 7.73
   LOCATION L0011623     VOLUME   653809.437 4183024.045 7.72
   LOCATION L0011624     VOLUME   653817.082 4183019.871 7.72
   LOCATION L0011625     VOLUME   653824.727 4183015.697 7.72
   LOCATION L0011626     VOLUME   653832.371 4183011.523 7.71
   LOCATION L0011627     VOLUME   653840.016 4183007.349 7.71
   LOCATION L0011628     VOLUME   653847.677 4183003.205 7.71
   LOCATION L0011629     VOLUME   653855.345 4182999.074 7.70
   LOCATION L0011630     VOLUME   653863.014 4182994.944 7.70
   LOCATION L0011631     VOLUME   653870.682 4182990.814 7.69
   LOCATION L0011632     VOLUME   653878.351 4182986.684 7.69
   LOCATION L0011633     VOLUME   653886.019 4182982.554 7.69
   LOCATION L0011634     VOLUME   653893.688 4182978.424 7.69
   LOCATION L0011635     VOLUME   653901.356 4182974.293 7.69
   LOCATION L0011636     VOLUME   653909.025 4182970.163 7.69
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Airport Way_Yosemite Ave to Atherton Dr
** PREFIX
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** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 0.0000361
** Vertical Dimension = 6.29
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   LOCATION L0011638     VOLUME   653878.167 4184737.870 8.59
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   LOCATION L0011645     VOLUME   653879.567 4184676.986 8.63
   LOCATION L0011646     VOLUME   653879.767 4184668.288 8.63
   LOCATION L0011647     VOLUME   653879.966 4184659.590 8.62
   LOCATION L0011648     VOLUME   653880.166 4184650.893 8.62
   LOCATION L0011649     VOLUME   653880.366 4184642.195 8.62
   LOCATION L0011650     VOLUME   653880.566 4184633.497 8.61
   LOCATION L0011651     VOLUME   653880.766 4184624.800 8.61
   LOCATION L0011652     VOLUME   653880.966 4184616.102 8.60
   LOCATION L0011653     VOLUME   653881.166 4184607.404 8.60
   LOCATION L0011654     VOLUME   653881.366 4184598.707 8.61
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   LOCATION L0011656     VOLUME   653881.766 4184581.311 8.61
   LOCATION L0011657     VOLUME   653881.966 4184572.613 8.62
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   LOCATION L0011661     VOLUME   653882.766 4184537.823 8.64
   LOCATION L0011662     VOLUME   653882.966 4184529.125 8.64
   LOCATION L0011663     VOLUME   653883.166 4184520.427 8.63
   LOCATION L0011664     VOLUME   653883.366 4184511.730 8.60
   LOCATION L0011665     VOLUME   653883.566 4184503.032 8.58
   LOCATION L0011666     VOLUME   653883.765 4184494.334 8.56
   LOCATION L0011667     VOLUME   653883.965 4184485.636 8.51
   LOCATION L0011668     VOLUME   653884.146 4184476.938 8.47
   LOCATION L0011669     VOLUME   653884.291 4184468.240 8.42
   LOCATION L0011670     VOLUME   653884.435 4184459.541 8.39
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LOCATION L0011768 VOLUME 653905.498 4183607.258 7.88
LOCATION L0011769 VOLUME 653905.660 4183598.560 7.93
LOCATION L0011770 VOLUME 653905.822 4183589.861 8.01

LOCATION L0011771 VOLUME 653905.984 4183581.163 8.10
LOCATION L0011772 VOLUME 653906.146 4183572.464 8.18
LOCATION L0011773 VOLUME 653906.308 4183563.766 8.22
LOCATION L0011774 VOLUME 653906.470 4183555.067 8.24
LOCATION L0011775 VOLUME 653906.632 4183546.369 8.25
LOCATION L0011776 VOLUME 653906.794 4183537.670 8.27
LOCATION L0011777 VOLUME 653906.956 4183528.972 8.28
LOCATION L0011778 VOLUME 653907.118 4183520.273 8.28
LOCATION L0011779 VOLUME 653907.280 4183511.575 8.29
LOCATION L0011780 VOLUME 653907.443 4183502.876 8.29
LOCATION L0011781 VOLUME 653907.605 4183494.178 8.29
LOCATION L0011782 VOLUME 653907.767 4183485.479 8.30
LOCATION L0011783 VOLUME 653907.929 4183476.781 8.30
LOCATION L0011784 VOLUME 653908.091 4183468.082 8.29
LOCATION L0011785 VOLUME 653908.253 4183459.384 8.29
LOCATION L0011786 VOLUME 653908.415 4183450.685 8.28
LOCATION L0011787 VOLUME 653908.577 4183441.987 8.28
LOCATION L0011788 VOLUME 653908.739 4183433.288 8.29
LOCATION L0011789 VOLUME 653908.901 4183424.590 8.29
LOCATION L0011790 VOLUME 653909.063 4183415.891 8.29
LOCATION L0011791 VOLUME 653909.232 4183407.193 8.30
LOCATION L0011792 VOLUME 653909.488 4183398.497 8.30
LOCATION L0011793 VOLUME 653909.743 4183389.801 8.31
LOCATION L0011794 VOLUME 653909.999 4183381.104 8.31
LOCATION L0011795 VOLUME 653910.255 4183372.408 8.32
LOCATION L0011796 VOLUME 653910.511 4183363.712 8.32
LOCATION L0011797 VOLUME 653910.767 4183355.016 8.33
LOCATION L0011798 VOLUME 653911.022 4183346.319 8.33
LOCATION L0011799 VOLUME 653911.278 4183337.623 8.34
LOCATION L0011800 VOLUME 653911.534 4183328.927 8.35
LOCATION L0011801 VOLUME 653911.790 4183320.231 8.36
LOCATION L0011802 VOLUME 653912.045 4183311.534 8.35
LOCATION L0011803 VOLUME 653912.301 4183302.838 8.35
LOCATION L0011804 VOLUME 653912.557 4183294.142 8.35
LOCATION L0011805 VOLUME 653912.813 4183285.446 8.36
LOCATION L0011806 VOLUME 653913.069 4183276.749 8.36
LOCATION L0011807 VOLUME 653913.324 4183268.053 8.36
LOCATION L0011808 VOLUME 653913.450 4183259.354 8.36
LOCATION L0011809 VOLUME 653913.566 4183250.655 8.36
LOCATION L0011810 VOLUME 653913.681 4183241.956 8.35
LOCATION L0011811 VOLUME 653913.797 4183233.257 8.34
LOCATION L0011812 VOLUME 653913.912 4183224.557 8.34
LOCATION L0011813 VOLUME 653914.028 4183215.858 8.33
LOCATION L0011814 VOLUME 653914.143 4183207.159 8.32
LOCATION L0011815 VOLUME 653914.259 4183198.460 8.31
LOCATION L0011816 VOLUME 653914.374 4183189.760 8.28
LOCATION L0011817 VOLUME 653914.490 4183181.061 8.26
LOCATION L0011818 VOLUME 653914.605 4183172.362 8.24
LOCATION L0011819 VOLUME 653914.721 4183163.663 8.22
LOCATION L0011820 VOLUME 653914.824 4183154.963 8.21

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   LOCATION L0011822     VOLUME   653914.865 4183137.563 8.18
   LOCATION L0011823     VOLUME   653914.885 4183128.863 8.16
   LOCATION L0011824     VOLUME   653914.906 4183120.163 8.14
   LOCATION L0011825     VOLUME   653914.926 4183111.463 8.12
   LOCATION L0011826     VOLUME   653914.946 4183102.763 8.10
   LOCATION L0011827     VOLUME   653914.967 4183094.064 8.07
   LOCATION L0011828     VOLUME   653914.987 4183085.364 8.05
   LOCATION L0011829     VOLUME   653915.007 4183076.664 8.03
   LOCATION L0011830     VOLUME   653915.028 4183067.964 8.00
   LOCATION L0011831     VOLUME   653915.048 4183059.264 7.97
   LOCATION L0011832     VOLUME   653915.068 4183050.564 7.94
   LOCATION L0011833     VOLUME   653915.088 4183041.864 7.91
   LOCATION L0011834     VOLUME   653915.109 4183033.164 7.89
   LOCATION L0011835     VOLUME   653915.129 4183024.464 7.86
   LOCATION L0011836     VOLUME   653915.149 4183015.764 7.83
   LOCATION L0011837     VOLUME   653915.170 4183007.064 7.81
   LOCATION L0011838     VOLUME   653915.190 4182998.364 7.78
   LOCATION L0011839     VOLUME   653915.210 4182989.664 7.75
   LOCATION L0011840     VOLUME   653915.231 4182980.964 7.73
   LOCATION L0011841     VOLUME   653915.251 4182972.264 7.70
   LOCATION L0011842     VOLUME   653915.328 4182963.564 7.68
   LOCATION L0011843     VOLUME   653915.482 4182954.866 7.66
   LOCATION L0011844     VOLUME   653915.636 4182946.167 7.63
   LOCATION L0011845     VOLUME   653915.790 4182937.469 7.61
   LOCATION L0011846     VOLUME   653915.944 4182928.770 7.58
   LOCATION L0011847     VOLUME   653916.099 4182920.071 7.56
   LOCATION L0011848     VOLUME   653916.253 4182911.373 7.53
   LOCATION L0011849     VOLUME   653916.407 4182902.674 7.51
   LOCATION L0011850     VOLUME   653916.561 4182893.975 7.49
   LOCATION L0011851     VOLUME   653916.715 4182885.277 7.47
   LOCATION L0011852     VOLUME   653916.869 4182876.578 7.44
   LOCATION L0011853     VOLUME   653917.023 4182867.879 7.42
   LOCATION L0011854     VOLUME   653917.178 4182859.181 7.39
   LOCATION L0011855     VOLUME   653917.332 4182850.482 7.38
   LOCATION L0011856     VOLUME   653917.486 4182841.784 7.36
   LOCATION L0011857     VOLUME   653917.640 4182833.085 7.34
   LOCATION L0011858     VOLUME   653917.794 4182824.386 7.33
   LOCATION L0011859     VOLUME   653917.948 4182815.688 7.32
   LOCATION L0011860     VOLUME   653918.102 4182806.989 7.31
   LOCATION L0011861     VOLUME   653918.257 4182798.290 7.29
   LOCATION L0011862     VOLUME   653918.411 4182789.592 7.29
   LOCATION L0011863     VOLUME   653918.565 4182780.893 7.29
   LOCATION L0011864     VOLUME   653918.719 4182772.194 7.29
   LOCATION L0011865     VOLUME   653918.873 4182763.496 7.28
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Atherton Drive_Airport Way to Grocery Store Driveway
```

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** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 0.0000524
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 12
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** 653882.353, 4182756.789, 7.17, 3.15, 4.05
** 653846.557, 4182761.217, 7.04, 3.15, 4.05
** 653812.634, 4182769.034, 6.97, 3.15, 4.05
** 653789.143, 4182778.131, 6.94, 3.15, 4.05
** 653752.483, 4182796.166, 6.93, 3.15, 4.05
** 653699.099, 4182833.816, 6.93, 3.15, 4.05
** 653666.597, 4182868.140, 6.97, 3.15, 4.05
** 653646.257, 4182892.225, 6.98, 3.15, 4.05
** 653622.843, 4182921.801, 7.04, 3.15, 4.05
** 653569.237, 4182996.356, 7.34, 3.15, 4.05
** 653551.985, 4183015.457, 7.36, 3.15, 4.05
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   LOCATION L0011867     VOLUME   653903.867 4182756.666 7.24
   LOCATION L0011868     VOLUME   653895.167 4182756.716 7.21
   LOCATION L0011869     VOLUME   653886.467 4182756.765 7.17
   LOCATION L0011870     VOLUME   653877.802 4182757.352 7.14
   LOCATION L0011871     VOLUME   653869.168 4182758.420 7.11
   LOCATION L0011872     VOLUME   653860.534 4182759.488 7.08
   LOCATION L0011873     VOLUME   653851.900 4182760.556 7.05
   LOCATION L0011874     VOLUME   653843.325 4182761.962 7.01
   LOCATION L0011875     VOLUME   653834.847 4182763.915 6.96
   LOCATION L0011876     VOLUME   653826.369 4182765.869 6.93
   LOCATION L0011877     VOLUME   653817.892 4182767.823 6.92
   LOCATION L0011878     VOLUME   653809.552 4182770.228 6.91
   LOCATION L0011879     VOLUME   653801.439 4182773.369 6.91
   LOCATION L0011880     VOLUME   653793.327 4182776.511 6.91
   LOCATION L0011881     VOLUME   653785.362 4182779.991 6.91
   LOCATION L0011882     VOLUME   653777.556 4182783.832 6.92
   LOCATION L0011883     VOLUME   653769.749 4182787.672 6.92
   LOCATION L0011884     VOLUME   653761.943 4182791.513 6.93
   LOCATION L0011885     VOLUME   653754.136 4182795.353 6.93
   LOCATION L0011886     VOLUME   653746.879 4182800.119 6.94
   LOCATION L0011887     VOLUME   653739.769 4182805.133 6.95
   LOCATION L0011888     VOLUME   653732.659 4182810.147 6.95
   LOCATION L0011889     VOLUME   653725.550 4182815.161 6.95
   LOCATION L0011890     VOLUME   653718.440 4182820.176 6.95
   LOCATION L0011891     VOLUME   653711.330 4182825.190 6.95
   LOCATION L0011892     VOLUME   653704.221 4182830.204 6.95
   LOCATION L0011893     VOLUME   653697.426 4182835.583 6.94
   LOCATION L0011894     VOLUME   653691.444 4182841.900 6.94
   LOCATION L0011895     VOLUME   653685.463 4182848.217 6.94
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   LOCATION L0011897     VOLUME   653673.499 4182860.851 6.93
   LOCATION L0011898     VOLUME   653667.517 4182867.168 6.93
   LOCATION L0011899     VOLUME   653661.847 4182873.765 6.94
   LOCATION L0011900     VOLUME   653656.234 4182880.412 6.94
   LOCATION L0011901     VOLUME   653650.620 4182887.058 6.95
   LOCATION L0011902     VOLUME   653645.054 4182893.744 6.96
   LOCATION L0011903     VOLUME   653639.654 4182900.565 6.98
   LOCATION L0011904     VOLUME   653634.254 4182907.386 7.00
   LOCATION L0011905     VOLUME   653628.854 4182914.208 7.02
   LOCATION L0011906     VOLUME   653623.454 4182921.029 7.05
   LOCATION L0011907     VOLUME   653618.339 4182928.065 7.08
   LOCATION L0011908     VOLUME   653613.260 4182935.129 7.10
   LOCATION L0011909     VOLUME   653608.181 4182942.192 7.14
   LOCATION L0011910     VOLUME   653603.102 4182949.256 7.17
   LOCATION L0011911     VOLUME   653598.023 4182956.320 7.20
   LOCATION L0011912     VOLUME   653592.945 4182963.383 7.23
   LOCATION L0011913     VOLUME   653587.866 4182970.447 7.26
   LOCATION L0011914     VOLUME   653582.787 4182977.511 7.29
   LOCATION L0011915     VOLUME   653577.708 4182984.574 7.31
   LOCATION L0011916     VOLUME   653572.629 4182991.638 7.33
   LOCATION L0011917     VOLUME   653567.300 4182998.500 7.34
   LOCATION L0011918     VOLUME   653561.469 4183004.956 7.35
   LOCATION L0011919     VOLUME   653555.637 4183011.413 7.36
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Airport Way_Fig Rd to Woodward Ave_55 mph
** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 0.000059
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 6
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** 653962.149, 4180819.252, 7.88, 3.15, 4.05
** 653959.138, 4180962.519, 7.96, 3.15, 4.05
** 653954.038, 4181192.008, 8.37, 3.15, 4.05
** 653927.444, 4182357.700, 7.65, 3.15, 4.05
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   LOCATION L0011921     VOLUME   653966.180 4180646.102 8.09
   LOCATION L0011922     VOLUME   653965.967 4180654.799 8.07
   LOCATION L0011923     VOLUME   653965.754 4180663.496 8.06
   LOCATION L0011924     VOLUME   653965.541 4180672.194 8.04
   LOCATION L0011925     VOLUME   653965.328 4180680.891 8.03
   LOCATION L0011926     VOLUME   653965.115 4180689.588 8.01
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LOCATION L0011927     VOLUME   653964.902 4180698.286 8.00
LOCATION L0011928     VOLUME   653964.694 4180706.983 7.99
LOCATION L0011929     VOLUME   653964.497 4180715.681 7.97
LOCATION L0011930     VOLUME   653964.300 4180724.379 7.96
LOCATION L0011931     VOLUME   653964.103 4180733.077 7.94
LOCATION L0011932     VOLUME   653963.905 4180741.774 7.94
LOCATION L0011933     VOLUME   653963.708 4180750.472 7.93
LOCATION L0011934     VOLUME   653963.511 4180759.170 7.92
LOCATION L0011935     VOLUME   653963.314 4180767.868 7.91
LOCATION L0011936     VOLUME   653963.117 4180776.566 7.90
LOCATION L0011937     VOLUME   653962.919 4180785.263 7.90
LOCATION L0011938     VOLUME   653962.722 4180793.961 7.89
LOCATION L0011939     VOLUME   653962.525 4180802.659 7.89
LOCATION L0011940     VOLUME   653962.328 4180811.357 7.89
LOCATION L0011941     VOLUME   653962.132 4180820.054 7.88
LOCATION L0011942     VOLUME   653961.949 4180828.752 7.88
LOCATION L0011943     VOLUME   653961.767 4180837.451 7.89
LOCATION L0011944     VOLUME   653961.584 4180846.149 7.89
LOCATION L0011945     VOLUME   653961.401 4180854.847 7.89
LOCATION L0011946     VOLUME   653961.218 4180863.545 7.90
LOCATION L0011947     VOLUME   653961.035 4180872.243 7.90
LOCATION L0011948     VOLUME   653960.853 4180880.941 7.91
LOCATION L0011949     VOLUME   653960.670 4180889.639 7.91
LOCATION L0011950     VOLUME   653960.487 4180898.337 7.92
LOCATION L0011951     VOLUME   653960.304 4180907.035 7.92
LOCATION L0011952     VOLUME   653960.121 4180915.733 7.93
LOCATION L0011953     VOLUME   653959.939 4180924.431 7.93
LOCATION L0011954     VOLUME   653959.756 4180933.129 7.94
LOCATION L0011955     VOLUME   653959.573 4180941.827 7.94
LOCATION L0011956     VOLUME   653959.390 4180950.526 7.94
LOCATION L0011957     VOLUME   653959.207 4180959.224 7.96
LOCATION L0011958     VOLUME   653959.018 4180967.922 7.97
LOCATION L0011959     VOLUME   653958.825 4180976.619 7.98
LOCATION L0011960     VOLUME   653958.632 4180985.317 7.99
LOCATION L0011961     VOLUME   653958.438 4180994.015 8.00
LOCATION L0011962     VOLUME   653958.245 4181002.713 8.02
LOCATION L0011963     VOLUME   653958.052 4181011.411 8.03
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LOCATION L0011968     VOLUME   653957.085 4181054.900 8.16
LOCATION L0011969     VOLUME   653956.892 4181063.598 8.20
LOCATION L0011970     VOLUME   653956.699 4181072.296 8.23
LOCATION L0011971     VOLUME   653956.505 4181080.994 8.24
LOCATION L0011972     VOLUME   653956.312 4181089.692 8.26
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LOCATION L0011975     VOLUME   653955.732 4181115.785 8.28
LOCATION L0011976     VOLUME   653955.539 4181124.483 8.28
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LOCATION L0011998     VOLUME   653951.213 4181315.834 9.96
LOCATION L0011999     VOLUME   653951.015 4181324.532 9.94
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LOCATION L0012024     VOLUME   653946.054 4181541.975 8.24
LOCATION L0012025     VOLUME   653945.856 4181550.673 8.22
LOCATION L0012026     VOLUME   653945.657 4181559.371 8.20
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LOCATION L0012053 VOLUME 653940.300 4181794.210 7.88
LOCATION L0012054 VOLUME 653940.101 4181802.907 7.87
LOCATION L0012055 VOLUME 653939.903 4181811.605 7.87
LOCATION L0012056 VOLUME 653939.704 4181820.303 7.85
LOCATION L0012057 VOLUME 653939.506 4181829.001 7.84
LOCATION L0012058 VOLUME 653939.308 4181837.698 7.83
LOCATION L0012059 VOLUME 653939.109 4181846.396 7.82
LOCATION L0012060 VOLUME 653938.911 4181855.094 7.82
LOCATION L0012061 VOLUME 653938.712 4181863.791 7.81
LOCATION L0012062 VOLUME 653938.514 4181872.489 7.80
LOCATION L0012063 VOLUME 653938.315 4181881.187 7.79
LOCATION L0012064 VOLUME 653938.117 4181889.885 7.79
LOCATION L0012065 VOLUME 653937.919 4181898.582 7.78
LOCATION L0012066 VOLUME 653937.720 4181907.280 7.77
LOCATION L0012067 VOLUME 653937.522 4181915.978 7.77
LOCATION L0012068 VOLUME 653937.323 4181924.676 7.76
LOCATION L0012069 VOLUME 653937.125 4181933.373 7.75
LOCATION L0012070 VOLUME 653936.926 4181942.071 7.75
LOCATION L0012071 VOLUME 653936.728 4181950.769 7.74
LOCATION L0012072 VOLUME 653936.530 4181959.467 7.73
LOCATION L0012073 VOLUME 653936.331 4181968.164 7.73
LOCATION L0012074 VOLUME 653936.133 4181976.862 7.73
LOCATION L0012075 VOLUME 653935.934 4181985.560 7.72
LOCATION L0012076 VOLUME 653935.736 4181994.258 7.72

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   LOCATION L0012077     VOLUME   653935.537 4182002.955 7.71
   LOCATION L0012078     VOLUME   653935.339 4182011.653 7.71
   LOCATION L0012079     VOLUME   653935.141 4182020.351 7.70
   LOCATION L0012080     VOLUME   653934.942 4182029.048 7.69
   LOCATION L0012081     VOLUME   653934.744 4182037.746 7.69
   LOCATION L0012082     VOLUME   653934.545 4182046.444 7.69
   LOCATION L0012083     VOLUME   653934.347 4182055.142 7.69
   LOCATION L0012084     VOLUME   653934.148 4182063.839 7.68
   LOCATION L0012085     VOLUME   653933.950 4182072.537 7.68
   LOCATION L0012086     VOLUME   653933.752 4182081.235 7.68
   LOCATION L0012087     VOLUME   653933.553 4182089.933 7.68
   LOCATION L0012088     VOLUME   653933.355 4182098.630 7.68
   LOCATION L0012089     VOLUME   653933.156 4182107.328 7.68
   LOCATION L0012090     VOLUME   653932.958 4182116.026 7.68
   LOCATION L0012091     VOLUME   653932.759 4182124.724 7.69
   LOCATION L0012092     VOLUME   653932.561 4182133.421 7.69
   LOCATION L0012093     VOLUME   653932.363 4182142.119 7.69
   LOCATION L0012094     VOLUME   653932.164 4182150.817 7.69
   LOCATION L0012095     VOLUME   653931.966 4182159.515 7.70
   LOCATION L0012096     VOLUME   653931.767 4182168.212 7.70
   LOCATION L0012097     VOLUME   653931.569 4182176.910 7.71
   LOCATION L0012098     VOLUME   653931.370 4182185.608 7.71
   LOCATION L0012099     VOLUME   653931.172 4182194.305 7.71
   LOCATION L0012100     VOLUME   653930.974 4182203.003 7.72
   LOCATION L0012101     VOLUME   653930.775 4182211.701 7.72
   LOCATION L0012102     VOLUME   653930.577 4182220.399 7.72
   LOCATION L0012103     VOLUME   653930.378 4182229.096 7.71
   LOCATION L0012104     VOLUME   653930.180 4182237.794 7.71
   LOCATION L0012105     VOLUME   653929.981 4182246.492 7.71
   LOCATION L0012106     VOLUME   653929.783 4182255.190 7.70
   LOCATION L0012107     VOLUME   653929.585 4182263.887 7.70
   LOCATION L0012108     VOLUME   653929.386 4182272.585 7.70
   LOCATION L0012109     VOLUME   653929.188 4182281.283 7.70
   LOCATION L0012110     VOLUME   653928.989 4182289.981 7.69
   LOCATION L0012111     VOLUME   653928.791 4182298.678 7.69
   LOCATION L0012112     VOLUME   653928.592 4182307.376 7.69
   LOCATION L0012113     VOLUME   653928.394 4182316.074 7.69
   LOCATION L0012114     VOLUME   653928.196 4182324.772 7.69
   LOCATION L0012115     VOLUME   653927.997 4182333.469 7.68
   LOCATION L0012116     VOLUME   653927.799 4182342.167 7.67
   LOCATION L0012117     VOLUME   653927.600 4182350.865 7.66
** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Airport Way_Woodward Ave to Atherton Dr
** PREFIX
** Length of Side = 8.70
** Configuration = Adjacent
** Emission Rate = 7.25E-06
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** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 8
** 653927.396, 4182356.369, 7.65, 3.15, 4.05
** 653925.855, 4182417.461, 7.56, 3.15, 4.05
** 653925.714, 4182484.679, 7.49, 3.15, 4.05
** 653924.647, 4182534.303, 7.38, 3.15, 4.05
** 653923.474, 4182628.600, 7.29, 3.15, 4.05
** 653922.407, 4182699.840, 7.31, 3.15, 4.05
** 653922.586, 4182735.918, 7.31, 3.15, 4.05
** 653919.467, 4182756.246, 7.28, 3.15, 4.05
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   LOCATION L0012118     VOLUME   653927.287 4182360.718 7.65
   LOCATION L0012119     VOLUME   653927.067 4182369.415 7.64
   LOCATION L0012120     VOLUME   653926.848 4182378.113 7.63
   LOCATION L0012121     VOLUME   653926.628 4182386.810 7.63
   LOCATION L0012122     VOLUME   653926.409 4182395.507 7.62
   LOCATION L0012123     VOLUME   653926.189 4182404.204 7.61
   LOCATION L0012124     VOLUME   653925.970 4182412.901 7.59
   LOCATION L0012125     VOLUME   653925.846 4182421.600 7.58
   LOCATION L0012126     VOLUME   653925.828 4182430.300 7.57
   LOCATION L0012127     VOLUME   653925.809 4182439.000 7.56
   LOCATION L0012128     VOLUME   653925.791 4182447.700 7.55
   LOCATION L0012129     VOLUME   653925.773 4182456.400 7.53
   LOCATION L0012130     VOLUME   653925.755 4182465.100 7.52
   LOCATION L0012131     VOLUME   653925.737 4182473.800 7.51
   LOCATION L0012132     VOLUME   653925.718 4182482.500 7.50
   LOCATION L0012133     VOLUME   653925.574 4182491.198 7.49
   LOCATION L0012134     VOLUME   653925.386 4182499.896 7.48
   LOCATION L0012135     VOLUME   653925.199 4182508.594 7.46
   LOCATION L0012136     VOLUME   653925.012 4182517.292 7.45
   LOCATION L0012137     VOLUME   653924.825 4182525.990 7.44
   LOCATION L0012138     VOLUME   653924.642 4182534.688 7.42
   LOCATION L0012139     VOLUME   653924.534 4182543.388 7.41
   LOCATION L0012140     VOLUME   653924.425 4182552.087 7.40
   LOCATION L0012141     VOLUME   653924.317 4182560.786 7.39
   LOCATION L0012142     VOLUME   653924.209 4182569.486 7.38
   LOCATION L0012143     VOLUME   653924.101 4182578.185 7.37
   LOCATION L0012144     VOLUME   653923.993 4182586.884 7.36
   LOCATION L0012145     VOLUME   653923.885 4182595.584 7.35
   LOCATION L0012146     VOLUME   653923.776 4182604.283 7.34
   LOCATION L0012147     VOLUME   653923.668 4182612.982 7.34
   LOCATION L0012148     VOLUME   653923.560 4182621.682 7.33
   LOCATION L0012149     VOLUME   653923.447 4182630.381 7.32
   LOCATION L0012150     VOLUME   653923.317 4182639.080 7.32
   LOCATION L0012151     VOLUME   653923.187 4182647.779 7.31
   LOCATION L0012152     VOLUME   653923.056 4182656.478 7.31
   LOCATION L0012153     VOLUME   653922.926 4182665.177 7.31
   LOCATION L0012154     VOLUME   653922.796 4182673.876 7.30
   LOCATION L0012155     VOLUME   653922.665 4182682.575 7.31
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   LOCATION L0012156     VOLUME   653922.535 4182691.274 7.31
   LOCATION L0012157     VOLUME   653922.407 4182699.973 7.31
   LOCATION L0012158     VOLUME   653922.451 4182708.673 7.31
   LOCATION L0012159     VOLUME   653922.494 4182717.373 7.30
   LOCATION L0012160     VOLUME   653922.537 4182726.073 7.30
   LOCATION L0012161     VOLUME   653922.581 4182734.773 7.30
   LOCATION L0012162     VOLUME   653921.440 4182743.385 7.29
   LOCATION L0012163     VOLUME   653920.121 4182751.985 7.29
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC On-SIte Truck Circulation_Grocery Store
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 1.45E-07
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 14
** 653549.495, 4183017.514, 7.36, 3.15, 4.05
** 653564.389, 4183038.028, 7.43, 3.15, 4.05
** 653584.341, 4183069.783, 7.51, 3.15, 4.05
** 653595.301, 4183090.860, 7.60, 3.15, 4.05
** 653605.698, 4183099.571, 7.63, 3.15, 4.05
** 653620.873, 4183100.695, 7.67, 3.15, 4.05
** 653645.884, 4183092.546, 7.70, 3.15, 4.05
** 653682.136, 4183071.188, 7.66, 3.15, 4.05
** 653708.270, 4183056.013, 7.68, 3.15, 4.05
** 653706.584, 4183044.491, 7.61, 3.15, 4.05
** 653696.468, 4183027.349, 7.55, 3.15, 4.05
** 653659.373, 4182961.029, 7.27, 3.15, 4.05
** 653634.924, 4182943.324, 7.16, 3.15, 4.05
** 653618.625, 4182930.679, 7.07, 3.15, 4.05
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   LOCATION L0012164     VOLUME   653552.053 4183021.038 7.38
   LOCATION L0012165     VOLUME   653557.170 4183028.086 7.40
   LOCATION L0012166     VOLUME   653562.288 4183035.134 7.42
   LOCATION L0012167     VOLUME   653567.120 4183042.375 7.44
   LOCATION L0012168     VOLUME   653571.754 4183049.750 7.46
   LOCATION L0012169     VOLUME   653576.388 4183057.125 7.48
   LOCATION L0012170     VOLUME   653581.022 4183064.500 7.50
   LOCATION L0012171     VOLUME   653585.481 4183071.975 7.52
   LOCATION L0012172     VOLUME   653589.499 4183079.703 7.55
   LOCATION L0012173     VOLUME   653593.518 4183087.431 7.57
   LOCATION L0012174     VOLUME   653599.015 4183093.971 7.60
   LOCATION L0012175     VOLUME   653605.691 4183099.565 7.63
   LOCATION L0012176     VOLUME   653614.375 4183100.214 7.65
   LOCATION L0012177     VOLUME   653622.959 4183100.016 7.66
   LOCATION L0012178     VOLUME   653631.241 4183097.317 7.67
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   LOCATION L0012179     VOLUME   653639.522 4183094.619 7.68
   LOCATION L0012180     VOLUME   653647.623 4183091.521 7.68
   LOCATION L0012181     VOLUME   653655.128 4183087.100 7.68
   LOCATION L0012182     VOLUME   653662.632 4183082.679 7.68
   LOCATION L0012183     VOLUME   653670.137 4183078.257 7.67
   LOCATION L0012184     VOLUME   653677.641 4183073.836 7.67
   LOCATION L0012185     VOLUME   653685.157 4183069.434 7.67
   LOCATION L0012186     VOLUME   653692.689 4183065.060 7.67
   LOCATION L0012187     VOLUME   653700.222 4183060.687 7.67
   LOCATION L0012188     VOLUME   653707.754 4183056.313 7.67
   LOCATION L0012189     VOLUME   653707.096 4183047.986 7.64
   LOCATION L0012190     VOLUME   653703.953 4183040.032 7.62
   LOCATION L0012191     VOLUME   653699.526 4183032.531 7.58
   LOCATION L0012192     VOLUME   653695.153 4183024.999 7.55
   LOCATION L0012193     VOLUME   653690.901 4183017.397 7.52
   LOCATION L0012194     VOLUME   653686.649 4183009.795 7.49
   LOCATION L0012195     VOLUME   653682.397 4183002.193 7.45
   LOCATION L0012196     VOLUME   653678.146 4182994.592 7.42
   LOCATION L0012197     VOLUME   653673.894 4182986.990 7.39
   LOCATION L0012198     VOLUME   653669.642 4182979.388 7.35
   LOCATION L0012199     VOLUME   653665.390 4182971.787 7.32
   LOCATION L0012200     VOLUME   653661.138 4182964.185 7.28
   LOCATION L0012201     VOLUME   653655.247 4182958.041 7.25
   LOCATION L0012202     VOLUME   653648.193 4182952.933 7.22
   LOCATION L0012203     VOLUME   653641.138 4182947.824 7.19
   LOCATION L0012204     VOLUME   653634.104 4182942.688 7.15
   LOCATION L0012205     VOLUME   653627.223 4182937.349 7.12
   LOCATION L0012206     VOLUME   653620.341 4182932.010 7.10
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC On-Site Truck Circulation_Gas Station
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 4.04E-06
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 18
** 653713.686, 4182824.816, 6.95, 3.15, 4.05
** 653720.591, 4182835.519, 6.97, 3.15, 4.05
** 653727.592, 4182847.579, 7.04, 3.15, 4.05
** 653734.984, 4182860.029, 7.05, 3.15, 4.05
** 653743.932, 4182870.533, 7.12, 3.15, 4.05
** 653751.324, 4182879.092, 7.16, 3.15, 4.05
** 653756.770, 4182883.372, 7.17, 3.15, 4.05
** 653761.828, 4182884.539, 7.18, 3.15, 4.05
** 653769.998, 4182882.204, 7.21, 3.15, 4.05
** 653775.445, 4182876.369, 7.20, 3.15, 4.05
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** 653778.946, 4182867.810, 7.16, 3.15, 4.05
** 653778.946, 4182853.026, 7.14, 3.15, 4.05
** 653779.335, 4182836.297, 7.05, 3.15, 4.05
** 653781.280, 4182825.793, 7.06, 3.15, 4.05
** 653784.004, 4182815.289, 7.01, 3.15, 4.05
** 653783.615, 4182807.119, 6.98, 3.15, 4.05
** 653780.891, 4182797.004, 6.96, 3.15, 4.05
** 653777.036, 4182785.015, 6.94, 3.15, 4.05
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   LOCATION L0012207     VOLUME   653716.047 4182828.476 6.97
   LOCATION L0012208     VOLUME   653720.756 4182835.803 6.99
   LOCATION L0012209     VOLUME   653725.129 4182843.336 7.01
   LOCATION L0012210     VOLUME   653729.534 4182850.849 7.04
   LOCATION L0012211     VOLUME   653733.980 4182858.339 7.06
   LOCATION L0012212     VOLUME   653739.357 4182865.163 7.09
   LOCATION L0012213     VOLUME   653745.014 4182871.786 7.12
   LOCATION L0012214     VOLUME   653750.707 4182878.378 7.15
   LOCATION L0012215     VOLUME   653757.589 4182883.560 7.17
   LOCATION L0012216     VOLUME   653766.020 4182883.341 7.19
   LOCATION L0012217     VOLUME   653773.118 4182878.862 7.20
   LOCATION L0012218     VOLUME   653777.451 4182871.463 7.18
   LOCATION L0012219     VOLUME   653778.946 4182863.047 7.16
   LOCATION L0012220     VOLUME   653778.946 4182854.337 7.14
   LOCATION L0012221     VOLUME   653779.118 4182845.629 7.11
   LOCATION L0012222     VOLUME   653779.320 4182836.922 7.09
   LOCATION L0012223     VOLUME   653780.807 4182828.347 7.07
   LOCATION L0012224     VOLUME   653782.814 4182819.876 7.04
   LOCATION L0012225     VOLUME   653783.815 4182811.322 7.02
   LOCATION L0012226     VOLUME   653782.444 4182802.772 6.98
   LOCATION L0012227     VOLUME   653780.054 4182794.399 6.95
   LOCATION L0012228     VOLUME   653777.387 4182786.107 6.92
** End of LINE VOLUME Source ID = SLINE8
** --------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC SR 120 WB_Mainline to Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.000119
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 8
** 654301.898, 4183242.952, 8.36, 3.15, 4.05
** 654355.103, 4183237.302, 8.36, 3.15, 4.05
** 654474.225, 4183235.419, 8.39, 3.15, 4.05
** 654622.539, 4183235.890, 8.40, 3.15, 4.05
** 654951.065, 4183244.210, 8.51, 3.15, 4.05
** 655112.321, 4183246.251, 8.58, 3.15, 4.05
** 655450.583, 4183254.671, 8.84, 3.15, 4.05
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** 656042.038, 4183270.999, 10.34, 3.15, 4.05
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   LOCATION L0012230     VOLUME   654314.890 4183241.572 8.36
   LOCATION L0012231     VOLUME   654323.551 4183240.653 8.36
   LOCATION L0012232     VOLUME   654332.212 4183239.733 8.36
   LOCATION L0012233     VOLUME   654340.874 4183238.813 8.36
   LOCATION L0012234     VOLUME   654349.535 4183237.893 8.36
   LOCATION L0012235     VOLUME   654358.213 4183237.253 8.36
   LOCATION L0012236     VOLUME   654366.922 4183237.115 8.36
   LOCATION L0012237     VOLUME   654375.631 4183236.978 8.36
   LOCATION L0012238     VOLUME   654384.340 4183236.840 8.37
   LOCATION L0012239     VOLUME   654393.049 4183236.702 8.37
   LOCATION L0012240     VOLUME   654401.758 4183236.564 8.37
   LOCATION L0012241     VOLUME   654410.467 4183236.427 8.37
   LOCATION L0012242     VOLUME   654419.176 4183236.289 8.37
   LOCATION L0012243     VOLUME   654427.884 4183236.151 8.38
   LOCATION L0012244     VOLUME   654436.593 4183236.014 8.38
   LOCATION L0012245     VOLUME   654445.302 4183235.876 8.38
   LOCATION L0012246     VOLUME   654454.011 4183235.738 8.38
   LOCATION L0012247     VOLUME   654462.720 4183235.601 8.39
   LOCATION L0012248     VOLUME   654471.429 4183235.463 8.39
   LOCATION L0012249     VOLUME   654480.139 4183235.437 8.39
   LOCATION L0012250     VOLUME   654488.849 4183235.465 8.39
   LOCATION L0012251     VOLUME   654497.559 4183235.493 8.39
   LOCATION L0012252     VOLUME   654506.269 4183235.520 8.39
   LOCATION L0012253     VOLUME   654514.978 4183235.548 8.39
   LOCATION L0012254     VOLUME   654523.688 4183235.576 8.40
   LOCATION L0012255     VOLUME   654532.398 4183235.603 8.40
   LOCATION L0012256     VOLUME   654541.108 4183235.631 8.40
   LOCATION L0012257     VOLUME   654549.818 4183235.659 8.40
   LOCATION L0012258     VOLUME   654558.528 4183235.686 8.40
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   LOCATION L0012260     VOLUME   654575.948 4183235.742 8.40
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   LOCATION L0012264     VOLUME   654610.788 4183235.852 8.40
   LOCATION L0012265     VOLUME   654619.498 4183235.880 8.41
   LOCATION L0012266     VOLUME   654628.206 4183236.033 8.41
   LOCATION L0012267     VOLUME   654636.913 4183236.254 8.41
   LOCATION L0012268     VOLUME   654645.621 4183236.474 8.41
   LOCATION L0012269     VOLUME   654654.328 4183236.695 8.41
   LOCATION L0012270     VOLUME   654663.035 4183236.915 8.42
   LOCATION L0012271     VOLUME   654671.742 4183237.136 8.42
   LOCATION L0012272     VOLUME   654680.449 4183237.356 8.43
   LOCATION L0012273     VOLUME   654689.157 4183237.577 8.43
   LOCATION L0012274     VOLUME   654697.864 4183237.797 8.43
   LOCATION L0012275     VOLUME   654706.571 4183238.018 8.43
   LOCATION L0012276     VOLUME   654715.278 4183238.238 8.44
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LOCATION L0012277 VOLUME 654723.985 4183238.459 8.44
LOCATION L0012278 VOLUME 654732.693 4183238.679 8.44
LOCATION L0012279 VOLUME 654741.400 4183238.900 8.45
LOCATION L0012280 VOLUME 654750.107 4183239.120 8.45
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LOCATION L0012282 VOLUME 654767.521 4183239.561 8.47
LOCATION L0012283 VOLUME 654776.229 4183239.782 8.47
LOCATION L0012284 VOLUME 654784.936 4183240.002 8.48
LOCATION L0012285 VOLUME 654793.643 4183240.223 8.48
LOCATION L0012286 VOLUME 654802.350 4183240.443 8.48
LOCATION L0012287 VOLUME 654811.058 4183240.664 8.48
LOCATION L0012288 VOLUME 654819.765 4183240.884 8.48
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LOCATION L0012295 VOLUME 654880.715 4183242.428 8.48
LOCATION L0012296 VOLUME 654889.422 4183242.649 8.48
LOCATION L0012297 VOLUME 654898.130 4183242.869 8.48
LOCATION L0012298 VOLUME 654906.837 4183243.090 8.49
LOCATION L0012299 VOLUME 654915.544 4183243.310 8.49
LOCATION L0012300 VOLUME 654924.251 4183243.531 8.50
LOCATION L0012301 VOLUME 654932.958 4183243.751 8.50
LOCATION L0012302 VOLUME 654941.666 4183243.972 8.51
LOCATION L0012303 VOLUME 654950.373 4183244.192 8.52
LOCATION L0012304 VOLUME 654959.082 4183244.311 8.53
LOCATION L0012305 VOLUME 654967.791 4183244.421 8.53
LOCATION L0012306 VOLUME 654976.501 4183244.532 8.54
LOCATION L0012307 VOLUME 654985.210 4183244.642 8.55
LOCATION L0012308 VOLUME 654993.919 4183244.752 8.56
LOCATION L0012309 VOLUME 655002.628 4183244.862 8.57
LOCATION L0012310 VOLUME 655011.338 4183244.973 8.57
LOCATION L0012311 VOLUME 655020.047 4183245.083 8.58
LOCATION L0012312 VOLUME 655028.756 4183245.193 8.58
LOCATION L0012313 VOLUME 655037.466 4183245.303 8.58
LOCATION L0012314 VOLUME 655046.175 4183245.414 8.58
LOCATION L0012315 VOLUME 655054.884 4183245.524 8.58
LOCATION L0012316 VOLUME 655063.594 4183245.634 8.58
LOCATION L0012317 VOLUME 655072.303 4183245.744 8.58
LOCATION L0012318 VOLUME 655081.012 4183245.855 8.59
LOCATION L0012319 VOLUME 655089.722 4183245.965 8.59
LOCATION L0012320 VOLUME 655098.431 4183246.075 8.59
LOCATION L0012321 VOLUME 655107.140 4183246.185 8.59
LOCATION L0012322 VOLUME 655115.849 4183246.339 8.58
LOCATION L0012323 VOLUME 655124.556 4183246.555 8.59
LOCATION L0012324 VOLUME 655133.263 4183246.772 8.59
LOCATION L0012325 VOLUME 655141.971 4183246.989 8.60
LOCATION L0012326 VOLUME 655150.678 4183247.206 8.61

LOCATION L0012327 VOLUME 655159.385 4183247.422 8.62
LOCATION L0012328 VOLUME 655168.092 4183247.639 8.62
LOCATION L0012329 VOLUME 655176.800 4183247.856 8.64
LOCATION L0012330 VOLUME 655185.507 4183248.073 8.65
LOCATION L0012331 VOLUME 655194.214 4183248.289 8.66
LOCATION L0012332 VOLUME 655202.922 4183248.506 8.66
LOCATION L0012333 VOLUME 655211.629 4183248.723 8.67
LOCATION L0012334 VOLUME 655220.336 4183248.940 8.67
LOCATION L0012335 VOLUME 655229.044 4183249.156 8.67
LOCATION L0012336 VOLUME 655237.751 4183249.373 8.68
LOCATION L0012337 VOLUME 655246.458 4183249.590 8.69
LOCATION L0012338 VOLUME 655255.165 4183249.807 8.70
LOCATION L0012339 VOLUME 655263.873 4183250.023 8.72
LOCATION L0012340 VOLUME 655272.580 4183250.240 8.73
LOCATION L0012341 VOLUME 655281.287 4183250.457 8.74
LOCATION L0012342 VOLUME 655289.995 4183250.674 8.75
LOCATION L0012343 VOLUME 655298.702 4183250.890 8.76
LOCATION L0012344 VOLUME 655307.409 4183251.107 8.77
LOCATION L0012345 VOLUME 655316.117 4183251.324 8.77
LOCATION L0012346 VOLUME 655324.824 4183251.541 8.78
LOCATION L0012347 VOLUME 655333.531 4183251.757 8.79
LOCATION L0012348 VOLUME 655342.238 4183251.974 8.79
LOCATION L0012349 VOLUME 655350.946 4183252.191 8.79
LOCATION L0012350 VOLUME 655359.653 4183252.408 8.79
LOCATION L0012351 VOLUME 655368.360 4183252.624 8.80
LOCATION L0012352 VOLUME 655377.068 4183252.841 8.81
LOCATION L0012353 VOLUME 655385.775 4183253.058 8.82
LOCATION L0012354 VOLUME 655394.482 4183253.274 8.83
LOCATION L0012355 VOLUME 655403.190 4183253.491 8.84
LOCATION L0012356 VOLUME 655411.897 4183253.708 8.84
LOCATION L0012357 VOLUME 655420.604 4183253.925 8.84
LOCATION L0012358 VOLUME 655429.312 4183254.141 8.84
LOCATION L0012359 VOLUME 655438.019 4183254.358 8.84
LOCATION L0012360 VOLUME 655446.726 4183254.575 8.84
LOCATION L0012361 VOLUME 655455.433 4183254.805 8.84
LOCATION L0012362 VOLUME 655464.140 4183255.045 8.84
LOCATION L0012363 VOLUME 655472.846 4183255.286 8.84
LOCATION L0012364 VOLUME 655481.553 4183255.526 8.84
LOCATION L0012365 VOLUME 655490.260 4183255.766 8.83
LOCATION L0012366 VOLUME 655498.966 4183256.007 8.83
LOCATION L0012367 VOLUME 655507.673 4183256.247 8.83
LOCATION L0012368 VOLUME 655516.380 4183256.487 8.86
LOCATION L0012369 VOLUME 655525.087 4183256.728 8.90
LOCATION L0012370 VOLUME 655533.793 4183256.968 8.93
LOCATION L0012371 VOLUME 655542.500 4183257.208 9.00
LOCATION L0012372 VOLUME 655551.207 4183257.449 9.07
LOCATION L0012373 VOLUME 655559.913 4183257.689 9.13
LOCATION L0012374 VOLUME 655568.620 4183257.929 9.16
LOCATION L0012375 VOLUME 655577.327 4183258.170 9.20
LOCATION L0012376 VOLUME 655586.033 4183258.410 9.23

LOCATION L0012377 VOLUME 655594.740 4183258.651 9.26
LOCATION L0012378 VOLUME 655603.447 4183258.891 9.29
LOCATION L0012379 VOLUME 655612.153 4183259.131 9.31
LOCATION L0012380 VOLUME 655620.860 4183259.372 9.33
LOCATION L0012381 VOLUME 655629.567 4183259.612 9.35
LOCATION L0012382 VOLUME 655638.273 4183259.852 9.37
LOCATION L0012383 VOLUME 655646.980 4183260.093 9.39
LOCATION L0012384 VOLUME 655655.687 4183260.333 9.41
LOCATION L0012385 VOLUME 655664.393 4183260.573 9.44
LOCATION L0012386 VOLUME 655673.100 4183260.814 9.46
LOCATION L0012387 VOLUME 655681.807 4183261.054 9.48
LOCATION L0012388 VOLUME 655690.514 4183261.294 9.51
LOCATION L0012389 VOLUME 655699.220 4183261.535 9.54
LOCATION L0012390 VOLUME 655707.927 4183261.775 9.56
LOCATION L0012391 VOLUME 655716.634 4183262.016 9.59
LOCATION L0012392 VOLUME 655725.340 4183262.256 9.61
LOCATION L0012393 VOLUME 655734.047 4183262.496 9.63
LOCATION L0012394 VOLUME 655742.754 4183262.737 9.66
LOCATION L0012395 VOLUME 655751.460 4183262.977 9.68
LOCATION L0012396 VOLUME 655760.167 4183263.217 9.71
LOCATION L0012397 VOLUME 655768.874 4183263.458 9.73
LOCATION L0012398 VOLUME 655777.580 4183263.698 9.76
LOCATION L0012399 VOLUME 655786.287 4183263.938 9.78
LOCATION L0012400 VOLUME 655794.994 4183264.179 9.81
LOCATION L0012401 VOLUME 655803.700 4183264.419 9.83
LOCATION L0012402 VOLUME 655812.407 4183264.659 9.85
LOCATION L0012403 VOLUME 655821.114 4183264.900 9.88
LOCATION L0012404 VOLUME 655829.820 4183265.140 9.90
LOCATION L0012405 VOLUME 655838.527 4183265.381 9.92
LOCATION L0012406 VOLUME 655847.234 4183265.621 9.95
LOCATION L0012407 VOLUME 655855.940 4183265.861 9.97
LOCATION L0012408 VOLUME 655864.647 4183266.102 9.99
LOCATION L0012409 VOLUME 655873.354 4183266.342 10.01
LOCATION L0012410 VOLUME 655882.061 4183266.582 10.03
LOCATION L0012411 VOLUME 655890.767 4183266.823 10.05
LOCATION L0012412 VOLUME 655899.474 4183267.063 10.07
LOCATION L0012413 VOLUME 655908.181 4183267.303 10.08
LOCATION L0012414 VOLUME 655916.887 4183267.544 10.10
LOCATION L0012415 VOLUME 655925.594 4183267.784 10.12
LOCATION L0012416 VOLUME 655934.301 4183268.024 10.14
LOCATION L0012417 VOLUME 655943.007 4183268.265 10.16
LOCATION L0012418 VOLUME 655951.714 4183268.505 10.17
LOCATION L0012419 VOLUME 655960.421 4183268.746 10.19
LOCATION L0012420 VOLUME 655969.127 4183268.986 10.21
LOCATION L0012421 VOLUME 655977.834 4183269.226 10.23
LOCATION L0012422 VOLUME 655986.541 4183269.467 10.24
LOCATION L0012423 VOLUME 655995.247 4183269.707 10.26
LOCATION L0012424 VOLUME 656003.954 4183269.947 10.28
LOCATION L0012425 VOLUME 656012.661 4183270.188 10.29
LOCATION L0012426 VOLUME 656021.367 4183270.428 10.30

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   LOCATION L0012427     VOLUME   656030.074 4183270.668 10.32
   LOCATION L0012428     VOLUME   656038.781 4183270.909 10.34
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC I-10 WB_Off-Ramp
** PREFIX
** Length of Side = 8.71
** Configuration = Adjacent
** Emission Rate = 0.0000138
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 11
** 654301.760, 4183242.835, 8.36, 3.15, 4.05
** 654285.076, 4183244.437, 8.36, 3.15, 4.05
** 654252.243, 4183250.576, 8.37, 3.15, 4.05
** 654215.005, 4183262.856, 8.37, 3.15, 4.05
** 654194.183, 4183272.065, 8.37, 3.15, 4.05
** 654125.640, 4183308.934, 8.39, 3.15, 4.05
** 654096.675, 4183326.654, 8.40, 3.15, 4.05
** 653952.343, 4183408.340, 8.34, 3.15, 4.05
** 653924.388, 4183423.259, 8.30, 3.15, 4.05
** 653918.577, 4183424.673, 8.30, 3.15, 4.05
** 653911.038, 4183424.987, 8.30, 3.15, 4.05
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   LOCATION L0012430     VOLUME   654288.755 4183244.084 8.36
   LOCATION L0012431     VOLUME   654280.147 4183245.358 8.36
   LOCATION L0012432     VOLUME   654271.585 4183246.959 8.36
   LOCATION L0012433     VOLUME   654263.024 4183248.560 8.36
   LOCATION L0012434     VOLUME   654254.462 4183250.161 8.37
   LOCATION L0012435     VOLUME   654246.115 4183252.597 8.37
   LOCATION L0012436     VOLUME   654237.843 4183255.325 8.37
   LOCATION L0012437     VOLUME   654229.571 4183258.052 8.37
   LOCATION L0012438     VOLUME   654221.299 4183260.780 8.37
   LOCATION L0012439     VOLUME   654213.101 4183263.698 8.37
   LOCATION L0012440     VOLUME   654205.135 4183267.221 8.37
   LOCATION L0012441     VOLUME   654197.170 4183270.744 8.37
   LOCATION L0012442     VOLUME   654189.388 4183274.644 8.37
   LOCATION L0012443     VOLUME   654181.718 4183278.770 8.37
   LOCATION L0012444     VOLUME   654174.047 4183282.896 8.37
   LOCATION L0012445     VOLUME   654166.376 4183287.022 8.38
   LOCATION L0012446     VOLUME   654158.705 4183291.148 8.38
   LOCATION L0012447     VOLUME   654151.035 4183295.274 8.39
   LOCATION L0012448     VOLUME   654143.364 4183299.400 8.39
   LOCATION L0012449     VOLUME   654135.693 4183303.526 8.39
   LOCATION L0012450     VOLUME   654128.022 4183307.652 8.40
   LOCATION L0012451     VOLUME   654120.518 4183312.067 8.40
   LOCATION L0012452     VOLUME   654113.088 4183316.613 8.40
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   LOCATION L0012453     VOLUME   654105.658 4183321.158 8.40
   LOCATION L0012454     VOLUME   654098.228 4183325.704 8.40
   LOCATION L0012455     VOLUME   654090.679 4183330.047 8.40
   LOCATION L0012456     VOLUME   654083.099 4183334.337 8.40
   LOCATION L0012457     VOLUME   654075.519 4183338.627 8.41
   LOCATION L0012458     VOLUME   654067.939 4183342.918 8.41
   LOCATION L0012459     VOLUME   654060.359 4183347.208 8.41
   LOCATION L0012460     VOLUME   654052.778 4183351.498 8.41
   LOCATION L0012461     VOLUME   654045.198 4183355.788 8.40
   LOCATION L0012462     VOLUME   654037.618 4183360.078 8.39
   LOCATION L0012463     VOLUME   654030.038 4183364.368 8.40
   LOCATION L0012464     VOLUME   654022.458 4183368.658 8.40
   LOCATION L0012465     VOLUME   654014.877 4183372.948 8.39
   LOCATION L0012466     VOLUME   654007.297 4183377.238 8.39
   LOCATION L0012467     VOLUME   653999.717 4183381.528 8.38
   LOCATION L0012468     VOLUME   653992.137 4183385.818 8.37
   LOCATION L0012469     VOLUME   653984.556 4183390.108 8.37
   LOCATION L0012470     VOLUME   653976.976 4183394.398 8.36
   LOCATION L0012471     VOLUME   653969.396 4183398.688 8.36
   LOCATION L0012472     VOLUME   653961.816 4183402.978 8.35
   LOCATION L0012473     VOLUME   653954.236 4183407.268 8.34
   LOCATION L0012474     VOLUME   653946.577 4183411.417 8.33
   LOCATION L0012475     VOLUME   653938.893 4183415.518 8.32
   LOCATION L0012476     VOLUME   653931.209 4183419.619 8.32
   LOCATION L0012477     VOLUME   653923.438 4183423.490 8.31
   LOCATION L0012478     VOLUME   653914.873 4183424.827 8.30
** End of LINE VOLUME Source ID = SLINE10
   LOCATION STCK1        POINT      653597.000  4183060.590        7.510
** DESCRSRC Grocery Store Truck Idling - 1
   LOCATION STCK2        POINT      653603.170  4183057.740        7.510
** DESCRSRC Grocery Store Truck Idling - 2
   LOCATION STCK3        POINT      653785.420  4182840.770        7.110
** DESCRSRC Gas Station Truck Idling - 1
   LOCATION STCK4        POINT      653791.720  4182841.400        7.120
** DESCRSRC Gas Station Truck Idling - 2
   LOCATION STCK5        POINT      653798.010  4182842.030        7.130
** DESCRSRC Gas Station Truck Idling - 3
   LOCATION STCK6        POINT      653803.460  4182841.610        7.140
** DESCRSRC Gas Station Truck Idling - 4
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0011332     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011333     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011334     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011335     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011336     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011337     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011338     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011339     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011340     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011341     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011342     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011343     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011344     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011345     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011346     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011347     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011348     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011349     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011350     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011351     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011352     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011353     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011354     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011357     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011358     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011359     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011360     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011361     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011362     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011363     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011365     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011366     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011367     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011368     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011369     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011380     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011381     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011389     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011390     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011393     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011396     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011397     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011398     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011399     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011400     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011401     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011402     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011406     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011407     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011408     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011409     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011410     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011411     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011412     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011413     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011414     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011415     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011416     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011418     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011419     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011420     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011437     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011438     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011439     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011440     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011441     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011442     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011443     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011444     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011445     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011446     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011447     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011448     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011449     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011450     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011451     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011452     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011453     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011454     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011455     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011456     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011457     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011458     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011459     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011460     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011461     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011462     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011463     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011464     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011465     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011466     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011467     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011468     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011469     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011470     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011471     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011472     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011473     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011474     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011475     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011476     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011477     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011478     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011479     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011480     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011481     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011482     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011483     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011484     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011485     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011486     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011487     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011488     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011489     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011490     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011491     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011492     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011494     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011495     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011496     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011497     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011498     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011499     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011500     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011501     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011502     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011503     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011504     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011505     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011506     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011508     0.0000002979      3.15      4.05      2.93
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SRCPARAM L0011510     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011511     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011512     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011513     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011514     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011515     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011516     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011517     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011518     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011519     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011520     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011521     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011522     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011523     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011524     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011525     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011526     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011527     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011528     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011529     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011530     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011531     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011532     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011533     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011534     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011535     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011536     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011537     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011538     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011539     0.0000002979      3.15      4.05      2.93
SRCPARAM L0011540     0.0000002979      3.15      4.05      2.93
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   SRCPARAM L0011541     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011542     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011543     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011544     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011545     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011546     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011547     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011548     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011549     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011550     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011551     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011552     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011553     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011554     0.0000002979      3.15      4.05      2.93
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   SRCPARAM L0011559     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011560     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011561     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011562     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011563     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011564     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011565     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011566     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011567     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011568     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011569     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011570     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011571     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011572     0.0000002979      3.15      4.05      2.93
   SRCPARAM L0011573     0.0000002979      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0011574     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011575     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011576     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011577     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011578     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011579     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011580     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011581     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011582     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011583     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011584     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011585     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011586     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011587     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011588     0.0000001378      3.15      4.05      2.93
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   SRCPARAM L0011589     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011590     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011591     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011592     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011593     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011594     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011595     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011596     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011597     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011598     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011599     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011600     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011601     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011602     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011603     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011604     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011605     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011606     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011607     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011608     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011609     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011610     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011611     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011612     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011613     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011614     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011615     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011616     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011617     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011618     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011619     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011620     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011621     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011622     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011623     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011624     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011625     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011626     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011627     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011628     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011629     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011630     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011631     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011632     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011633     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011634     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011635     0.0000001378      3.15      4.05      2.93
   SRCPARAM L0011636     0.0000001378      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0011637     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011638     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011639     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011640     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011641     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011642     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011643     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011644     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011645     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011646     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011647     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011648     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011649     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011650     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011651     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011652     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011653     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011654     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011655     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011656     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011657     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011658     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011659     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011660     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011661     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011662     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011663     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011664     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011665     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011666     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011667     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011668     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011669     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011670     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011671     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011672     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011673     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011674     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011675     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011676     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011677     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011678     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011679     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011680     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011681     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011682     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011683     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011684     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011685     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011686     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011687     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011688     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011689     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011690     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011691     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011692     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011693     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011698     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011700     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011702     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011711     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011712     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011713     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011714     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011715     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011716     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011719     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011720     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011721     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011722     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011723     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011725     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011726     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011727     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011728     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011729     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011730     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011731     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011732     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011733     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011734     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011735     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011736     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011737     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011738     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011739     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011740     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011741     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011742     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011743     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011744     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011745     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011746     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011747     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011748     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011749     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011750     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011751     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011752     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011753     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011754     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011755     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011756     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011757     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011758     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011759     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011760     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011761     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011762     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011763     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011764     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011765     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011766     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011767     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011768     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011769     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011770     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011771     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011772     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011773     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011774     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011775     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011776     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011777     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011778     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011779     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011780     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011781     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011782     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011783     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011784     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011785     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011786     0.0000001576      3.15      4.05      2.93
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SRCPARAM L0011787     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011788     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011789     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011790     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011791     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011792     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011793     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011794     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011795     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011796     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011797     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011798     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011799     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011800     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011801     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011802     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011803     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011804     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011805     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011806     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011807     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011808     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011809     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011810     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011811     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011812     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011813     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011814     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011815     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011816     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011817     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011818     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011819     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011820     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011821     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011822     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011823     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011824     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011825     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011826     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011827     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011828     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011829     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011830     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011831     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011832     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011833     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011834     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011835     0.0000001576      3.15      4.05      2.93
SRCPARAM L0011836     0.0000001576      3.15      4.05      2.93
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   SRCPARAM L0011837     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011838     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011839     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011840     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011841     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011842     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011843     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011844     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011845     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011846     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011847     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011848     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011849     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011850     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011851     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011852     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011853     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011854     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011855     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011856     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011857     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011858     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011859     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011860     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011861     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011862     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011863     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011864     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0011865     0.0000001576      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0011867     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011868     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011869     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011870     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011871     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011872     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011873     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011874     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011875     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011876     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011877     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011878     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011879     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011880     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011881     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011882     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011883     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011884     0.0000009704      3.15      4.05      2.93
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   SRCPARAM L0011885     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011886     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011887     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011888     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011889     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011890     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011891     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011892     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011893     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011894     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011895     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011896     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011897     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011898     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011899     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011900     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011901     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011902     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011903     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011904     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011905     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011906     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011907     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011908     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011909     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011910     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011911     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011912     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011913     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011914     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011915     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011916     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011917     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011918     0.0000009704      3.15      4.05      2.93
   SRCPARAM L0011919     0.0000009704      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE5
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   SRCPARAM L0011921     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011922     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011923     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011924     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011925     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011926     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011927     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011928     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011929     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011930     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011931     0.000000298      3.15      4.05      2.93
   SRCPARAM L0011932     0.000000298      3.15      4.05      2.93
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SRCPARAM L0011933     0.000000298      3.15      4.05      2.93
SRCPARAM L0011934     0.000000298      3.15      4.05      2.93
SRCPARAM L0011935     0.000000298      3.15      4.05      2.93
SRCPARAM L0011936     0.000000298      3.15      4.05      2.93
SRCPARAM L0011937     0.000000298      3.15      4.05      2.93
SRCPARAM L0011938     0.000000298      3.15      4.05      2.93
SRCPARAM L0011939     0.000000298      3.15      4.05      2.93
SRCPARAM L0011940     0.000000298      3.15      4.05      2.93
SRCPARAM L0011941     0.000000298      3.15      4.05      2.93
SRCPARAM L0011942     0.000000298      3.15      4.05      2.93
SRCPARAM L0011943     0.000000298      3.15      4.05      2.93
SRCPARAM L0011944     0.000000298      3.15      4.05      2.93
SRCPARAM L0011945     0.000000298      3.15      4.05      2.93
SRCPARAM L0011946     0.000000298      3.15      4.05      2.93
SRCPARAM L0011947     0.000000298      3.15      4.05      2.93
SRCPARAM L0011948     0.000000298      3.15      4.05      2.93
SRCPARAM L0011949     0.000000298      3.15      4.05      2.93
SRCPARAM L0011950     0.000000298      3.15      4.05      2.93
SRCPARAM L0011951     0.000000298      3.15      4.05      2.93
SRCPARAM L0011952     0.000000298      3.15      4.05      2.93
SRCPARAM L0011953     0.000000298      3.15      4.05      2.93
SRCPARAM L0011954     0.000000298      3.15      4.05      2.93
SRCPARAM L0011955     0.000000298      3.15      4.05      2.93
SRCPARAM L0011956     0.000000298      3.15      4.05      2.93
SRCPARAM L0011957     0.000000298      3.15      4.05      2.93
SRCPARAM L0011958     0.000000298      3.15      4.05      2.93
SRCPARAM L0011959     0.000000298      3.15      4.05      2.93
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SRCPARAM L0011963     0.000000298      3.15      4.05      2.93
SRCPARAM L0011964     0.000000298      3.15      4.05      2.93
SRCPARAM L0011965     0.000000298      3.15      4.05      2.93
SRCPARAM L0011966     0.000000298      3.15      4.05      2.93
SRCPARAM L0011967     0.000000298      3.15      4.05      2.93
SRCPARAM L0011968     0.000000298      3.15      4.05      2.93
SRCPARAM L0011969     0.000000298      3.15      4.05      2.93
SRCPARAM L0011970     0.000000298      3.15      4.05      2.93
SRCPARAM L0011971     0.000000298      3.15      4.05      2.93
SRCPARAM L0011972     0.000000298      3.15      4.05      2.93
SRCPARAM L0011973     0.000000298      3.15      4.05      2.93
SRCPARAM L0011974     0.000000298      3.15      4.05      2.93
SRCPARAM L0011975     0.000000298      3.15      4.05      2.93
SRCPARAM L0011976     0.000000298      3.15      4.05      2.93
SRCPARAM L0011977     0.000000298      3.15      4.05      2.93
SRCPARAM L0011978     0.000000298      3.15      4.05      2.93
SRCPARAM L0011979     0.000000298      3.15      4.05      2.93
SRCPARAM L0011980     0.000000298      3.15      4.05      2.93
SRCPARAM L0011981     0.000000298      3.15      4.05      2.93
SRCPARAM L0011982     0.000000298      3.15      4.05      2.93
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SRCPARAM L0011983     0.000000298      3.15      4.05      2.93
SRCPARAM L0011984     0.000000298      3.15      4.05      2.93
SRCPARAM L0011985     0.000000298      3.15      4.05      2.93
SRCPARAM L0011986     0.000000298      3.15      4.05      2.93
SRCPARAM L0011987     0.000000298      3.15      4.05      2.93
SRCPARAM L0011988     0.000000298      3.15      4.05      2.93
SRCPARAM L0011989     0.000000298      3.15      4.05      2.93
SRCPARAM L0011990     0.000000298      3.15      4.05      2.93
SRCPARAM L0011991     0.000000298      3.15      4.05      2.93
SRCPARAM L0011992     0.000000298      3.15      4.05      2.93
SRCPARAM L0011993     0.000000298      3.15      4.05      2.93
SRCPARAM L0011994     0.000000298      3.15      4.05      2.93
SRCPARAM L0011995     0.000000298      3.15      4.05      2.93
SRCPARAM L0011996     0.000000298      3.15      4.05      2.93
SRCPARAM L0011997     0.000000298      3.15      4.05      2.93
SRCPARAM L0011998     0.000000298      3.15      4.05      2.93
SRCPARAM L0011999     0.000000298      3.15      4.05      2.93
SRCPARAM L0012000     0.000000298      3.15      4.05      2.93
SRCPARAM L0012001     0.000000298      3.15      4.05      2.93
SRCPARAM L0012002     0.000000298      3.15      4.05      2.93
SRCPARAM L0012003     0.000000298      3.15      4.05      2.93
SRCPARAM L0012004     0.000000298      3.15      4.05      2.93
SRCPARAM L0012005     0.000000298      3.15      4.05      2.93
SRCPARAM L0012006     0.000000298      3.15      4.05      2.93
SRCPARAM L0012007     0.000000298      3.15      4.05      2.93
SRCPARAM L0012008     0.000000298      3.15      4.05      2.93
SRCPARAM L0012009     0.000000298      3.15      4.05      2.93
SRCPARAM L0012010     0.000000298      3.15      4.05      2.93
SRCPARAM L0012011     0.000000298      3.15      4.05      2.93
SRCPARAM L0012012     0.000000298      3.15      4.05      2.93
SRCPARAM L0012013     0.000000298      3.15      4.05      2.93
SRCPARAM L0012014     0.000000298      3.15      4.05      2.93
SRCPARAM L0012015     0.000000298      3.15      4.05      2.93
SRCPARAM L0012016     0.000000298      3.15      4.05      2.93
SRCPARAM L0012017     0.000000298      3.15      4.05      2.93
SRCPARAM L0012018     0.000000298      3.15      4.05      2.93
SRCPARAM L0012019     0.000000298      3.15      4.05      2.93
SRCPARAM L0012020     0.000000298      3.15      4.05      2.93
SRCPARAM L0012021     0.000000298      3.15      4.05      2.93
SRCPARAM L0012022     0.000000298      3.15      4.05      2.93
SRCPARAM L0012023     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012025     0.000000298      3.15      4.05      2.93
SRCPARAM L0012026     0.000000298      3.15      4.05      2.93
SRCPARAM L0012027     0.000000298      3.15      4.05      2.93
SRCPARAM L0012028     0.000000298      3.15      4.05      2.93
SRCPARAM L0012029     0.000000298      3.15      4.05      2.93
SRCPARAM L0012030     0.000000298      3.15      4.05      2.93
SRCPARAM L0012031     0.000000298      3.15      4.05      2.93
SRCPARAM L0012032     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012037     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012040     0.000000298      3.15      4.05      2.93
SRCPARAM L0012041     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012046     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012050     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012066     0.000000298      3.15      4.05      2.93
SRCPARAM L0012067     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012069     0.000000298      3.15      4.05      2.93
SRCPARAM L0012070     0.000000298      3.15      4.05      2.93
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SRCPARAM L0012075     0.000000298      3.15      4.05      2.93
SRCPARAM L0012076     0.000000298      3.15      4.05      2.93
SRCPARAM L0012077     0.000000298      3.15      4.05      2.93
SRCPARAM L0012078     0.000000298      3.15      4.05      2.93
SRCPARAM L0012079     0.000000298      3.15      4.05      2.93
SRCPARAM L0012080     0.000000298      3.15      4.05      2.93
SRCPARAM L0012081     0.000000298      3.15      4.05      2.93
SRCPARAM L0012082     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012084     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012087     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012088     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012089     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012090     0.000000298      3.15      4.05      2.93
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   SRCPARAM L0012094     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012095     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012096     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012097     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012098     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012099     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012100     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012101     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012102     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012103     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012104     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012105     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012106     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012107     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012108     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012109     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012110     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012111     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012112     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012113     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012114     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012115     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012116     0.000000298      3.15      4.05      2.93
   SRCPARAM L0012117     0.000000298      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0012118     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012119     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012120     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012121     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012122     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012123     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012124     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012125     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012126     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012127     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012128     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012129     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012130     0.0000001576      3.15      4.05      2.93
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   SRCPARAM L0012131     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012132     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012133     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012134     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012135     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012136     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012137     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012138     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012139     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012140     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012141     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012142     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012143     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012144     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012145     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012146     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012147     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012148     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012149     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012150     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012151     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012152     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012153     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012154     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012155     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012156     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012157     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012158     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012159     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012160     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012161     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012162     0.0000001576      3.15      4.05      2.93
   SRCPARAM L0012163     0.0000001576      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0012164     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012165     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012166     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012167     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012168     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012169     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012170     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012171     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012172     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012173     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012174     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012175     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012176     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012177     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012178     0.000000003372      3.15      4.05      2.93
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   SRCPARAM L0012179     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012180     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012181     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012182     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012183     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012184     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012185     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012186     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012187     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012188     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012189     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012190     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012191     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012192     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012193     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012194     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012195     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012196     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012197     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012198     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012199     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012200     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012201     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012202     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012203     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012204     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012205     0.000000003372      3.15      4.05      2.93
   SRCPARAM L0012206     0.000000003372      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0012207     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012208     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012209     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012210     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012211     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012212     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012213     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012214     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012215     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012216     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012217     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012218     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012219     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012220     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012221     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012222     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012223     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012224     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012225     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012226     0.0000001836      3.15      4.05      2.93
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   SRCPARAM L0012227     0.0000001836      3.15      4.05      2.93
   SRCPARAM L0012228     0.0000001836      3.15      4.05      2.93
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0012229     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012230     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012231     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012232     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012233     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012234     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012235     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012236     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012237     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012238     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012239     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012240     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012241     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012242     0.000000595       3.15      4.05      2.93
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   SRCPARAM L0012244     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012245     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012246     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012247     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012248     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012249     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012250     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012251     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012252     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012253     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012254     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012255     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012256     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012257     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012258     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012259     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012260     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012261     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012262     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012263     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012264     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012265     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012266     0.000000595       3.15      4.05      2.93
   SRCPARAM L0012267     0.000000595       3.15      4.05      2.93
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   SRCPARAM L0012272     0.000000595       3.15      4.05      2.93
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   SRCPARAM L0012274     0.000000595       3.15      4.05      2.93
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SRCPARAM L0012275     0.000000595      3.15      4.05      2.93
SRCPARAM L0012276     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012281     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012301     0.000000595      3.15      4.05      2.93
SRCPARAM L0012302     0.000000595      3.15      4.05      2.93
SRCPARAM L0012303     0.000000595      3.15      4.05      2.93
SRCPARAM L0012304     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012310     0.000000595      3.15      4.05      2.93
SRCPARAM L0012311     0.000000595      3.15      4.05      2.93
SRCPARAM L0012312     0.000000595      3.15      4.05      2.93
SRCPARAM L0012313     0.000000595      3.15      4.05      2.93
SRCPARAM L0012314     0.000000595      3.15      4.05      2.93
SRCPARAM L0012315     0.000000595      3.15      4.05      2.93
SRCPARAM L0012316     0.000000595      3.15      4.05      2.93
SRCPARAM L0012317     0.000000595      3.15      4.05      2.93
SRCPARAM L0012318     0.000000595      3.15      4.05      2.93
SRCPARAM L0012319     0.000000595      3.15      4.05      2.93
SRCPARAM L0012320     0.000000595      3.15      4.05      2.93
SRCPARAM L0012321     0.000000595      3.15      4.05      2.93
SRCPARAM L0012322     0.000000595      3.15      4.05      2.93
SRCPARAM L0012323     0.000000595      3.15      4.05      2.93
SRCPARAM L0012324     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012325     0.000000595      3.15      4.05      2.93
SRCPARAM L0012326     0.000000595      3.15      4.05      2.93
SRCPARAM L0012327     0.000000595      3.15      4.05      2.93
SRCPARAM L0012328     0.000000595      3.15      4.05      2.93
SRCPARAM L0012329     0.000000595      3.15      4.05      2.93
SRCPARAM L0012330     0.000000595      3.15      4.05      2.93
SRCPARAM L0012331     0.000000595      3.15      4.05      2.93
SRCPARAM L0012332     0.000000595      3.15      4.05      2.93
SRCPARAM L0012333     0.000000595      3.15      4.05      2.93
SRCPARAM L0012334     0.000000595      3.15      4.05      2.93
SRCPARAM L0012335     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012337     0.000000595      3.15      4.05      2.93
SRCPARAM L0012338     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012348     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012350     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012352     0.000000595      3.15      4.05      2.93
SRCPARAM L0012353     0.000000595      3.15      4.05      2.93
SRCPARAM L0012354     0.000000595      3.15      4.05      2.93
SRCPARAM L0012355     0.000000595      3.15      4.05      2.93
SRCPARAM L0012356     0.000000595      3.15      4.05      2.93
SRCPARAM L0012357     0.000000595      3.15      4.05      2.93
SRCPARAM L0012358     0.000000595      3.15      4.05      2.93
SRCPARAM L0012359     0.000000595      3.15      4.05      2.93
SRCPARAM L0012360     0.000000595      3.15      4.05      2.93
SRCPARAM L0012361     0.000000595      3.15      4.05      2.93
SRCPARAM L0012362     0.000000595      3.15      4.05      2.93
SRCPARAM L0012363     0.000000595      3.15      4.05      2.93
SRCPARAM L0012364     0.000000595      3.15      4.05      2.93
SRCPARAM L0012365     0.000000595      3.15      4.05      2.93
SRCPARAM L0012366     0.000000595      3.15      4.05      2.93
SRCPARAM L0012367     0.000000595      3.15      4.05      2.93
SRCPARAM L0012368     0.000000595      3.15      4.05      2.93
SRCPARAM L0012369     0.000000595      3.15      4.05      2.93
SRCPARAM L0012370     0.000000595      3.15      4.05      2.93
SRCPARAM L0012371     0.000000595      3.15      4.05      2.93
SRCPARAM L0012372     0.000000595      3.15      4.05      2.93
SRCPARAM L0012373     0.000000595      3.15      4.05      2.93
SRCPARAM L0012374     0.000000595      3.15      4.05      2.93
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SRCPARAM L0012375     0.000000595      3.15      4.05      2.93
SRCPARAM L0012376     0.000000595      3.15      4.05      2.93
SRCPARAM L0012377     0.000000595      3.15      4.05      2.93
SRCPARAM L0012378     0.000000595      3.15      4.05      2.93
SRCPARAM L0012379     0.000000595      3.15      4.05      2.93
SRCPARAM L0012380     0.000000595      3.15      4.05      2.93
SRCPARAM L0012381     0.000000595      3.15      4.05      2.93
SRCPARAM L0012382     0.000000595      3.15      4.05      2.93
SRCPARAM L0012383     0.000000595      3.15      4.05      2.93
SRCPARAM L0012384     0.000000595      3.15      4.05      2.93
SRCPARAM L0012385     0.000000595      3.15      4.05      2.93
SRCPARAM L0012386     0.000000595      3.15      4.05      2.93
SRCPARAM L0012387     0.000000595      3.15      4.05      2.93
SRCPARAM L0012388     0.000000595      3.15      4.05      2.93
SRCPARAM L0012389     0.000000595      3.15      4.05      2.93
SRCPARAM L0012390     0.000000595      3.15      4.05      2.93
SRCPARAM L0012391     0.000000595      3.15      4.05      2.93
SRCPARAM L0012392     0.000000595      3.15      4.05      2.93
SRCPARAM L0012393     0.000000595      3.15      4.05      2.93
SRCPARAM L0012394     0.000000595      3.15      4.05      2.93
SRCPARAM L0012395     0.000000595      3.15      4.05      2.93
SRCPARAM L0012396     0.000000595      3.15      4.05      2.93
SRCPARAM L0012397     0.000000595      3.15      4.05      2.93
SRCPARAM L0012398     0.000000595      3.15      4.05      2.93
SRCPARAM L0012399     0.000000595      3.15      4.05      2.93
SRCPARAM L0012400     0.000000595      3.15      4.05      2.93
SRCPARAM L0012401     0.000000595      3.15      4.05      2.93
SRCPARAM L0012402     0.000000595      3.15      4.05      2.93
SRCPARAM L0012403     0.000000595      3.15      4.05      2.93
SRCPARAM L0012404     0.000000595      3.15      4.05      2.93
SRCPARAM L0012405     0.000000595      3.15      4.05      2.93
SRCPARAM L0012406     0.000000595      3.15      4.05      2.93
SRCPARAM L0012407     0.000000595      3.15      4.05      2.93
SRCPARAM L0012408     0.000000595      3.15      4.05      2.93
SRCPARAM L0012409     0.000000595      3.15      4.05      2.93
SRCPARAM L0012410     0.000000595      3.15      4.05      2.93
SRCPARAM L0012411     0.000000595      3.15      4.05      2.93
SRCPARAM L0012412     0.000000595      3.15      4.05      2.93
SRCPARAM L0012413     0.000000595      3.15      4.05      2.93
SRCPARAM L0012414     0.000000595      3.15      4.05      2.93
SRCPARAM L0012415     0.000000595      3.15      4.05      2.93
SRCPARAM L0012416     0.000000595      3.15      4.05      2.93
SRCPARAM L0012417     0.000000595      3.15      4.05      2.93
SRCPARAM L0012418     0.000000595      3.15      4.05      2.93
SRCPARAM L0012419     0.000000595      3.15      4.05      2.93
SRCPARAM L0012420     0.000000595      3.15      4.05      2.93
SRCPARAM L0012421     0.000000595      3.15      4.05      2.93
SRCPARAM L0012422     0.000000595      3.15      4.05      2.93
SRCPARAM L0012423     0.000000595      3.15      4.05      2.93
SRCPARAM L0012424     0.000000595      3.15      4.05      2.93
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   SRCPARAM L0012425     0.000000595      3.15      4.05      2.93
   SRCPARAM L0012426     0.000000595      3.15      4.05      2.93
   SRCPARAM L0012427     0.000000595      3.15      4.05      2.93
   SRCPARAM L0012428     0.000000595      3.15      4.05      2.93
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0012429     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012430     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012431     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012432     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012433     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012434     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012435     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012436     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012437     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012438     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012439     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012440     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012441     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012442     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012443     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012444     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012445     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012446     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012447     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012448     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012449     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012450     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012451     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012452     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012453     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012454     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012455     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012456     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012457     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012458     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012459     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012460     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012461     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012462     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012463     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012464     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012465     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012466     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012467     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012468     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012469     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012470     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012471     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012472     0.000000276      3.15      4.05      2.93
```

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   SRCPARAM L0012473     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012474     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012475     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012476     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012477     0.000000276      3.15      4.05      2.93
   SRCPARAM L0012478     0.000000276      3.15      4.05      2.93
** ---------------------------------------------------------------------
   SRCPARAM STCK1         1.73E-07     0.000   366.000  49.99000     0.100
   SRCPARAM STCK2         2.69E-09     3.840   366.000  49.99000     0.100
   SRCPARAM STCK3         0.000108     0.000   366.000  49.99000     0.100
   SRCPARAM STCK4         0.000108     0.000   366.000  49.99000     0.100
   SRCPARAM STCK5         0.000108     0.000   366.000  49.99000     0.100
   SRCPARAM STCK6         0.000108     0.000   366.000  49.99000     0.100
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "Maverik Manteca_operations.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE AERMET\2017_Stockton.SFC
   PROFFILE AERMET\2017_Stockton.PFL
   SURFDATA 23237 2017
   UAIRDATA 23230 2017 OAKLAND/WSO_AP
   PROFBASE 7.9 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "Maverik Manteca_operations.AD\01H1GALL.PLT" 31
```

```
   PLOTFILE 24 ALL 1ST "Maverik Manteca_operations.AD\24H1GALL.PLT" 32
   PLOTFILE PERIOD ALL "Maverik Manteca_operations.AD\PE00GALL.PLT" 33
   SUMMFILE "Maverik Manteca_operations.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2637       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    2637       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        09:09:29

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                             ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F
```

```
 **Model Uses URBAN Dispersion Algorithm for the SBL for  1153 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =    762148.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:   1153 Source(s);       1 Source Group(s); and     770
Receptor(s)

                with:      6 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   1147 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  18081

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)
```

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 7.90 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.1 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: Maverik Manteca_operations.err

**File for Summary of Results: Maverik Manteca_operations.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR VARY BY	EMIS RATE SCALAR
STCK1	0	0.17300E-06	653597.0	4183060.6	7.5	0.00	366.00	49.99	0.10	NO	YES	NO	
STCK2	0	0.26900E-08	653603.2	4183057.7	7.5	3.84	366.00	49.99	0.10	NO	YES	NO	
STCK3	0	0.10800E-03	653785.4	4182840.8	7.1	0.00	366.00	49.99	0.10	NO	YES	NO	
STCK4	0	0.10800E-03	653791.7	4182841.4	7.1	0.00	366.00	49.99	0.10	NO	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
STCK5	0	0.10800E-03	653798.0	4182842.0	7.1	0.00	366.00	49.99	0.10	NO
STCK6	0	0.10800E-03	653803.5	4182841.6	7.1	0.00	366.00	49.99	0.10	NO
L0011332	0	0.29790E-06	651378.1	4183626.1	14.3	3.15	4.05	2.93	YES	
L0011333	0	0.29790E-06	651386.4	4183623.4	14.6	3.15	4.05	2.93	YES	
L0011334	0	0.29790E-06	651394.7	4183620.8	14.9	3.15	4.05	2.93	YES	
L0011335	0	0.29790E-06	651403.0	4183618.2	15.1	3.15	4.05	2.93	YES	
L0011336	0	0.29790E-06	651411.3	4183615.6	15.4	3.15	4.05	2.93	YES	
L0011337	0	0.29790E-06	651419.6	4183612.9	15.2	3.15	4.05	2.93	YES	
L0011338	0	0.29790E-06	651428.0	4183610.3	14.8	3.15	4.05	2.93	YES	
L0011339	0	0.29790E-06	651436.3	4183607.7	14.6	3.15	4.05	2.93	YES	
L0011340	0	0.29790E-06	651444.6	4183605.0	14.4	3.15	4.05	2.93	YES	
L0011341	0	0.29790E-06	651452.9	4183602.4	14.3	3.15	4.05	2.93	YES	
L0011342	0	0.29790E-06	651461.2	4183599.8	14.3	3.15	4.05	2.93	YES	
L0011343	0	0.29790E-06	651469.5	4183597.2	14.4	3.15	4.05	2.93	YES	
L0011344	0	0.29790E-06	651477.8	4183594.5	14.6	3.15	4.05	2.93	YES	

L0011345	0	0.29790E-06	651486.1	4183591.9	14.9	3.15	4.05	2.93 YES
L0011346	0	0.29790E-06	651494.4	4183589.3	15.0	3.15	4.05	2.93 YES
L0011347	0	0.29790E-06	651502.7	4183586.7	15.0	3.15	4.05	2.93 YES
L0011348	0	0.29790E-06	651511.0	4183584.1	14.6	3.15	4.05	2.93 YES
L0011349	0	0.29790E-06	651519.3	4183581.5	13.6	3.15	4.05	2.93 YES
L0011350	0	0.29790E-06	651527.6	4183578.9	12.5	3.15	4.05	2.93 YES
L0011351	0	0.29790E-06	651536.0	4183576.3	11.4	3.15	4.05	2.93 YES
L0011352	0	0.29790E-06	651544.3	4183573.7	10.6	3.15	4.05	2.93 YES
L0011353	0	0.29790E-06	651552.6	4183571.1	10.2	3.15	4.05	2.93 YES
L0011354	0	0.29790E-06	651560.9	4183568.5	10.0	3.15	4.05	2.93 YES
L0011355	0	0.29790E-06	651569.2	4183565.9	10.4	3.15	4.05	2.93 YES
L0011356	0	0.29790E-06	651577.5	4183563.3	11.1	3.15	4.05	2.93 YES
L0011357	0	0.29790E-06	651585.8	4183560.7	12.2	3.15	4.05	2.93 YES
L0011358	0	0.29790E-06	651594.1	4183558.1	13.1	3.15	4.05	2.93 YES
L0011359	0	0.29790E-06	651602.5	4183555.5	13.7	3.15	4.05	2.93 YES
L0011360	0	0.29790E-06	651610.8	4183552.9	13.8	3.15	4.05	2.93 YES
L0011361	0	0.29790E-06	651619.1	4183550.3	13.7	3.15	4.05	2.93 YES
L0011362	0	0.29790E-06	651627.4	4183547.7	13.6	3.15	4.05	2.93 YES
L0011363	0	0.29790E-06	651635.7	4183545.1	13.6	3.15	4.05	2.93 YES
L0011364	0	0.29790E-06	651644.0	4183542.5	13.6	3.15	4.05	2.93 YES
L0011365	0	0.29790E-06	651652.3	4183539.9	13.7	3.15	4.05	2.93 YES
L0011366	0	0.29790E-06	651660.6	4183537.3	13.9	3.15	4.05	2.93 YES
L0011367	0	0.29790E-06	651669.0	4183534.7	14.1	3.15	4.05	2.93 YES
L0011368	0	0.29790E-06	651677.3	4183532.1	14.3	3.15	4.05	2.93 YES
L0011369	0	0.29790E-06	651685.6	4183529.5	14.7	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011370	0	0.29790E-06	651693.9	4183526.9	14.7	3.15	4.05	2.93	YES	
L0011371	0	0.29790E-06	651702.2	4183524.3	14.4	3.15	4.05	2.93	YES	
L0011372	0	0.29790E-06	651710.5	4183521.7	14.2	3.15	4.05	2.93	YES	
L0011373	0	0.29790E-06	651718.8	4183519.1	13.9	3.15	4.05	2.93	YES	
L0011374	0	0.29790E-06	651727.1	4183516.5	13.8	3.15	4.05	2.93	YES	
L0011375	0	0.29790E-06	651735.5	4183513.9	13.8	3.15	4.05	2.93	YES	
L0011376	0	0.29790E-06	651743.8	4183511.3	13.8	3.15	4.05	2.93	YES	
L0011377	0	0.29790E-06	651752.1	4183508.7	13.9	3.15	4.05	2.93	YES	
L0011378	0	0.29790E-06	651760.4	4183506.1	14.2	3.15	4.05	2.93	YES	
L0011379	0	0.29790E-06	651768.7	4183503.5	14.4	3.15	4.05	2.93	YES	
L0011380	0	0.29790E-06	651777.0	4183500.9	14.6	3.15	4.05	2.93	YES	
L0011381	0	0.29790E-06	651785.3	4183498.2	14.9	3.15	4.05	2.93	YES	
L0011382	0	0.29790E-06	651793.6	4183495.6	14.5	3.15	4.05	2.93	YES	
L0011383	0	0.29790E-06	651802.0	4183493.0	14.2	3.15	4.05	2.93	YES	
L0011384	0	0.29790E-06	651810.3	4183490.4	14.0	3.15	4.05	2.93	YES	

L0011385	0	0.29790E-06	651818.6	4183487.8	13.8	3.15	4.05	2.93 YES
L0011386	0	0.29790E-06	651826.9	4183485.2	13.7	3.15	4.05	2.93 YES
L0011387	0	0.29790E-06	651835.2	4183482.6	13.8	3.15	4.05	2.93 YES
L0011388	0	0.29790E-06	651843.5	4183480.0	13.8	3.15	4.05	2.93 YES
L0011389	0	0.29790E-06	651851.8	4183477.4	14.0	3.15	4.05	2.93 YES
L0011390	0	0.29790E-06	651860.1	4183474.8	14.2	3.15	4.05	2.93 YES
L0011391	0	0.29790E-06	651868.5	4183472.2	14.4	3.15	4.05	2.93 YES
L0011392	0	0.29790E-06	651876.8	4183469.6	14.7	3.15	4.05	2.93 YES
L0011393	0	0.29790E-06	651885.1	4183467.0	14.4	3.15	4.05	2.93 YES
L0011394	0	0.29790E-06	651893.4	4183464.4	14.1	3.15	4.05	2.93 YES
L0011395	0	0.29790E-06	651901.7	4183461.8	13.8	3.15	4.05	2.93 YES
L0011396	0	0.29790E-06	651910.0	4183459.2	13.6	3.15	4.05	2.93 YES
L0011397	0	0.29790E-06	651918.3	4183456.6	13.5	3.15	4.05	2.93 YES
L0011398	0	0.29790E-06	651926.6	4183454.0	13.4	3.15	4.05	2.93 YES
L0011399	0	0.29790E-06	651935.0	4183451.4	13.5	3.15	4.05	2.93 YES
L0011400	0	0.29790E-06	651943.3	4183448.8	13.5	3.15	4.05	2.93 YES
L0011401	0	0.29790E-06	651951.6	4183446.2	13.6	3.15	4.05	2.93 YES
L0011402	0	0.29790E-06	651959.9	4183443.6	13.8	3.15	4.05	2.93 YES
L0011403	0	0.29790E-06	651968.2	4183441.0	13.9	3.15	4.05	2.93 YES
L0011404	0	0.29790E-06	651976.5	4183438.4	13.6	3.15	4.05	2.93 YES
L0011405	0	0.29790E-06	651984.8	4183435.8	13.2	3.15	4.05	2.93 YES
L0011406	0	0.29790E-06	651993.1	4183433.2	12.8	3.15	4.05	2.93 YES
L0011407	0	0.29790E-06	652001.5	4183430.6	12.5	3.15	4.05	2.93 YES
L0011408	0	0.29790E-06	652009.8	4183428.0	12.2	3.15	4.05	2.93 YES
L0011409	0	0.29790E-06	652018.1	4183425.4	11.9	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011410	0	0.29790E-06	652026.4	4183422.8	11.8	3.15	4.05	2.93	YES	
L0011411	0	0.29790E-06	652034.7	4183420.2	11.7	3.15	4.05	2.93	YES	
L0011412	0	0.29790E-06	652043.0	4183417.6	11.6	3.15	4.05	2.93	YES	
L0011413	0	0.29790E-06	652051.3	4183415.0	11.6	3.15	4.05	2.93	YES	
L0011414	0	0.29790E-06	652059.6	4183412.4	11.6	3.15	4.05	2.93	YES	
L0011415	0	0.29790E-06	652068.0	4183409.8	11.3	3.15	4.05	2.93	YES	
L0011416	0	0.29790E-06	652076.3	4183407.2	10.8	3.15	4.05	2.93	YES	
L0011417	0	0.29790E-06	652084.6	4183404.6	10.4	3.15	4.05	2.93	YES	
L0011418	0	0.29790E-06	652092.9	4183402.0	10.0	3.15	4.05	2.93	YES	
L0011419	0	0.29790E-06	652101.2	4183399.4	9.6	3.15	4.05	2.93	YES	
L0011420	0	0.29790E-06	652109.5	4183396.8	9.3	3.15	4.05	2.93	YES	
L0011421	0	0.29790E-06	652117.8	4183394.2	9.1	3.15	4.05	2.93	YES	
L0011422	0	0.29790E-06	652126.1	4183391.6	8.9	3.15	4.05	2.93	YES	
L0011423	0	0.29790E-06	652134.5	4183389.0	8.7	3.15	4.05	2.93	YES	
L0011424	0	0.29790E-06	652142.8	4183386.4	8.6	3.15	4.05	2.93	YES	

L0011425	0	0.29790E-06	652151.1	4183383.8	8.5	3.15	4.05	2.93 YES
L0011426	0	0.29790E-06	652159.4	4183381.2	8.2	3.15	4.05	2.93 YES
L0011427	0	0.29790E-06	652167.7	4183378.6	7.9	3.15	4.05	2.93 YES
L0011428	0	0.29790E-06	652176.0	4183376.1	7.6	3.15	4.05	2.93 YES
L0011429	0	0.29790E-06	652184.4	4183373.5	7.3	3.15	4.05	2.93 YES
L0011430	0	0.29790E-06	652192.7	4183370.9	7.1	3.15	4.05	2.93 YES
L0011431	0	0.29790E-06	652201.0	4183368.4	6.9	3.15	4.05	2.93 YES
L0011432	0	0.29790E-06	652209.3	4183365.8	6.8	3.15	4.05	2.93 YES
L0011433	0	0.29790E-06	652217.7	4183363.3	6.6	3.15	4.05	2.93 YES
L0011434	0	0.29790E-06	652226.0	4183360.7	6.5	3.15	4.05	2.93 YES
L0011435	0	0.29790E-06	652234.3	4183358.1	6.4	3.15	4.05	2.93 YES
L0011436	0	0.29790E-06	652242.6	4183355.6	6.3	3.15	4.05	2.93 YES
L0011437	0	0.29790E-06	652251.0	4183353.0	6.2	3.15	4.05	2.93 YES
L0011438	0	0.29790E-06	652259.3	4183350.5	6.1	3.15	4.05	2.93 YES
L0011439	0	0.29790E-06	652267.6	4183347.9	5.9	3.15	4.05	2.93 YES
L0011440	0	0.29790E-06	652275.9	4183345.3	5.7	3.15	4.05	2.93 YES
L0011441	0	0.29790E-06	652284.3	4183342.8	5.7	3.15	4.05	2.93 YES
L0011442	0	0.29790E-06	652292.6	4183340.2	5.7	3.15	4.05	2.93 YES
L0011443	0	0.29790E-06	652300.9	4183337.6	5.7	3.15	4.05	2.93 YES
L0011444	0	0.29790E-06	652309.2	4183335.1	5.8	3.15	4.05	2.93 YES
L0011445	0	0.29790E-06	652317.6	4183332.5	5.9	3.15	4.05	2.93 YES
L0011446	0	0.29790E-06	652325.9	4183330.0	6.0	3.15	4.05	2.93 YES
L0011447	0	0.29790E-06	652334.2	4183327.4	6.0	3.15	4.05	2.93 YES
L0011448	0	0.29790E-06	652342.5	4183324.8	6.1	3.15	4.05	2.93 YES
L0011449	0	0.29790E-06	652350.9	4183322.3	6.1	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011452	0	0.29790E-06	652375.8	4183314.6	6.4	3.15	4.05	2.93	YES	
L0011453	0	0.29790E-06	652384.2	4183312.0	6.4	3.15	4.05	2.93	YES	
L0011454	0	0.29790E-06	652392.5	4183309.5	6.5	3.15	4.05	2.93	YES	
L0011455	0	0.29790E-06	652400.8	4183306.9	6.6	3.15	4.05	2.93	YES	
L0011456	0	0.29790E-06	652409.1	4183304.3	6.6	3.15	4.05	2.93	YES	
L0011457	0	0.29790E-06	652417.4	4183301.6	6.7	3.15	4.05	2.93	YES	
L0011458	0	0.29790E-06	652425.6	4183298.8	6.8	3.15	4.05	2.93	YES	
L0011459	0	0.29790E-06	652433.9	4183296.0	6.8	3.15	4.05	2.93	YES	
L0011460	0	0.29790E-06	652442.1	4183293.2	6.8	3.15	4.05	2.93	YES	
L0011461	0	0.29790E-06	652450.4	4183290.4	6.8	3.15	4.05	2.93	YES	
L0011462	0	0.29790E-06	652458.7	4183287.6	6.8	3.15	4.05	2.93	YES	
L0011463	0	0.29790E-06	652466.9	4183284.8	6.8	3.15	4.05	2.93	YES	
L0011464	0	0.29790E-06	652475.2	4183282.0	6.8	3.15	4.05	2.93	YES	

L0011465	0	0.29790E-06	652483.4	4183279.3	6.9	3.15	4.05	2.93 YES
L0011466	0	0.29790E-06	652491.7	4183276.5	6.9	3.15	4.05	2.93 YES
L0011467	0	0.29790E-06	652499.9	4183273.7	7.0	3.15	4.05	2.93 YES
L0011468	0	0.29790E-06	652508.2	4183270.9	7.0	3.15	4.05	2.93 YES
L0011469	0	0.29790E-06	652516.4	4183268.1	7.1	3.15	4.05	2.93 YES
L0011470	0	0.29790E-06	652524.7	4183265.3	7.2	3.15	4.05	2.93 YES
L0011471	0	0.29790E-06	652532.9	4183262.5	7.2	3.15	4.05	2.93 YES
L0011472	0	0.29790E-06	652541.2	4183259.7	7.2	3.15	4.05	2.93 YES
L0011473	0	0.29790E-06	652549.4	4183256.9	7.2	3.15	4.05	2.93 YES
L0011474	0	0.29790E-06	652557.7	4183254.1	7.2	3.15	4.05	2.93 YES
L0011475	0	0.29790E-06	652565.9	4183251.3	7.2	3.15	4.05	2.93 YES
L0011476	0	0.29790E-06	652574.2	4183248.5	7.2	3.15	4.05	2.93 YES
L0011477	0	0.29790E-06	652582.4	4183245.7	7.2	3.15	4.05	2.93 YES
L0011478	0	0.29790E-06	652590.7	4183243.0	7.2	3.15	4.05	2.93 YES
L0011479	0	0.29790E-06	652599.0	4183240.6	7.2	3.15	4.05	2.93 YES
L0011480	0	0.29790E-06	652607.5	4183238.3	7.2	3.15	4.05	2.93 YES
L0011481	0	0.29790E-06	652615.9	4183236.1	7.2	3.15	4.05	2.93 YES
L0011482	0	0.29790E-06	652624.3	4183233.8	7.2	3.15	4.05	2.93 YES
L0011483	0	0.29790E-06	652632.7	4183231.6	7.1	3.15	4.05	2.93 YES
L0011484	0	0.29790E-06	652641.1	4183229.3	7.1	3.15	4.05	2.93 YES
L0011485	0	0.29790E-06	652649.5	4183227.0	7.1	3.15	4.05	2.93 YES
L0011486	0	0.29790E-06	652657.9	4183224.8	7.0	3.15	4.05	2.93 YES
L0011487	0	0.29790E-06	652666.3	4183222.5	7.0	3.15	4.05	2.93 YES
L0011488	0	0.29790E-06	652674.7	4183220.2	7.0	3.15	4.05	2.93 YES
L0011489	0	0.29790E-06	652683.2	4183218.0	7.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011490	0	0.29790E-06	652691.6	4183215.7	7.0	3.15	4.05	2.93	YES	
L0011491	0	0.29790E-06	652700.0	4183213.5	7.0	3.15	4.05	2.93	YES	
L0011492	0	0.29790E-06	652708.4	4183211.2	7.0	3.15	4.05	2.93	YES	
L0011493	0	0.29790E-06	652716.8	4183208.9	7.1	3.15	4.05	2.93	YES	
L0011494	0	0.29790E-06	652725.3	4183206.9	7.1	3.15	4.05	2.93	YES	
L0011495	0	0.29790E-06	652733.8	4183205.0	7.1	3.15	4.05	2.93	YES	
L0011496	0	0.29790E-06	652742.3	4183203.1	7.1	3.15	4.05	2.93	YES	
L0011497	0	0.29790E-06	652750.8	4183201.2	7.0	3.15	4.05	2.93	YES	
L0011498	0	0.29790E-06	652759.3	4183199.3	7.0	3.15	4.05	2.93	YES	
L0011499	0	0.29790E-06	652767.8	4183197.4	7.0	3.15	4.05	2.93	YES	
L0011500	0	0.29790E-06	652776.3	4183195.5	7.0	3.15	4.05	2.93	YES	
L0011501	0	0.29790E-06	652784.8	4183193.6	7.0	3.15	4.05	2.93	YES	
L0011502	0	0.29790E-06	652793.3	4183191.7	7.0	3.15	4.05	2.93	YES	
L0011503	0	0.29790E-06	652801.8	4183189.8	6.9	3.15	4.05	2.93	YES	
L0011504	0	0.29790E-06	652810.3	4183188.3	6.9	3.15	4.05	2.93	YES	

L0011505	0	0.29790E-06	652818.9	4183186.9	6.9	3.15	4.05	2.93 YES
L0011506	0	0.29790E-06	652827.5	4183185.5	6.9	3.15	4.05	2.93 YES
L0011507	0	0.29790E-06	652836.1	4183184.0	6.9	3.15	4.05	2.93 YES
L0011508	0	0.29790E-06	652844.7	4183182.6	6.9	3.15	4.05	2.93 YES
L0011509	0	0.29790E-06	652853.3	4183181.2	6.9	3.15	4.05	2.93 YES
L0011510	0	0.29790E-06	652861.9	4183179.8	6.9	3.15	4.05	2.93 YES
L0011511	0	0.29790E-06	652870.5	4183178.5	6.8	3.15	4.05	2.93 YES
L0011512	0	0.29790E-06	652879.2	4183177.5	6.8	3.15	4.05	2.93 YES
L0011513	0	0.29790E-06	652887.8	4183176.5	6.8	3.15	4.05	2.93 YES
L0011514	0	0.29790E-06	652896.5	4183175.5	6.8	3.15	4.05	2.93 YES
L0011515	0	0.29790E-06	652905.1	4183174.6	6.8	3.15	4.05	2.93 YES
L0011516	0	0.29790E-06	652913.8	4183173.6	6.8	3.15	4.05	2.93 YES
L0011517	0	0.29790E-06	652922.4	4183172.6	6.8	3.15	4.05	2.93 YES
L0011518	0	0.29790E-06	652931.1	4183171.6	6.8	3.15	4.05	2.93 YES
L0011519	0	0.29790E-06	652939.8	4183170.6	6.8	3.15	4.05	2.93 YES
L0011520	0	0.29790E-06	652948.4	4183169.7	6.8	3.15	4.05	2.93 YES
L0011521	0	0.29790E-06	652957.1	4183168.7	6.8	3.15	4.05	2.93 YES
L0011522	0	0.29790E-06	652965.7	4183167.7	6.8	3.15	4.05	2.93 YES
L0011523	0	0.29790E-06	652974.4	4183166.9	6.8	3.15	4.05	2.93 YES
L0011524	0	0.29790E-06	652983.1	4183166.3	6.8	3.15	4.05	2.93 YES
L0011525	0	0.29790E-06	652991.8	4183165.7	6.8	3.15	4.05	2.93 YES
L0011526	0	0.29790E-06	653000.5	4183165.1	6.8	3.15	4.05	2.93 YES
L0011527	0	0.29790E-06	653009.1	4183164.5	6.8	3.15	4.05	2.93 YES
L0011528	0	0.29790E-06	653017.8	4183164.1	6.8	3.15	4.05	2.93 YES
L0011529	0	0.29790E-06	653026.5	4183163.9	6.8	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0011532	0	0.29790E-06	653052.7	4183163.1	6.8	3.15	4.05	2.93	YES	
L0011533	0	0.29790E-06	653061.4	4183162.9	6.8	3.15	4.05	2.93	YES	
L0011534	0	0.29790E-06	653070.1	4183162.6	6.8	3.15	4.05	2.93	YES	
L0011535	0	0.29790E-06	653078.8	4183162.7	6.8	3.15	4.05	2.93	YES	
L0011536	0	0.29790E-06	653087.5	4183162.8	6.8	3.15	4.05	2.93	YES	
L0011537	0	0.29790E-06	653096.2	4183162.8	6.8	3.15	4.05	2.93	YES	
L0011538	0	0.29790E-06	653104.9	4183162.9	6.8	3.15	4.05	2.93	YES	
L0011539	0	0.29790E-06	653113.6	4183163.0	6.8	3.15	4.05	2.93	YES	
L0011540	0	0.29790E-06	653122.3	4183163.0	6.8	3.15	4.05	2.93	YES	
L0011541	0	0.29790E-06	653131.1	4183163.1	6.8	3.15	4.05	2.93	YES	
L0011542	0	0.29790E-06	653139.8	4183163.2	6.8	3.15	4.05	2.93	YES	
L0011543	0	0.29790E-06	653148.5	4183163.2	6.8	3.15	4.05	2.93	YES	
L0011544	0	0.29790E-06	653157.2	4183163.3	6.8	3.15	4.05	2.93	YES	

L0011545	0	0.29790E-06	653165.9	4183163.4	6.8	3.15	4.05	2.93 YES
L0011546	0	0.29790E-06	653174.6	4183163.5	6.8	3.15	4.05	2.93 YES
L0011547	0	0.29790E-06	653183.3	4183163.7	6.8	3.15	4.05	2.93 YES
L0011548	0	0.29790E-06	653192.0	4183163.9	6.8	3.15	4.05	2.93 YES
L0011549	0	0.29790E-06	653200.7	4183164.0	6.8	3.15	4.05	2.93 YES
L0011550	0	0.29790E-06	653209.4	4183164.2	6.8	3.15	4.05	2.93 YES
L0011551	0	0.29790E-06	653218.1	4183164.4	6.8	3.15	4.05	2.93 YES
L0011552	0	0.29790E-06	653226.8	4183164.6	6.8	3.15	4.05	2.93 YES
L0011553	0	0.29790E-06	653235.6	4183164.7	6.8	3.15	4.05	2.93 YES
L0011554	0	0.29790E-06	653244.3	4183164.9	6.8	3.15	4.05	2.93 YES
L0011555	0	0.29790E-06	653253.0	4183165.1	6.8	3.15	4.05	2.93 YES
L0011556	0	0.29790E-06	653261.7	4183165.2	6.8	3.15	4.05	2.93 YES
L0011557	0	0.29790E-06	653270.4	4183165.4	6.8	3.15	4.05	2.93 YES
L0011558	0	0.29790E-06	653279.1	4183165.6	6.8	3.15	4.05	2.93 YES
L0011559	0	0.29790E-06	653287.8	4183165.8	6.8	3.15	4.05	2.93 YES
L0011560	0	0.29790E-06	653296.5	4183165.9	6.9	3.15	4.05	2.93 YES
L0011561	0	0.29790E-06	653305.2	4183166.1	6.9	3.15	4.05	2.93 YES
L0011562	0	0.29790E-06	653313.9	4183166.3	6.9	3.15	4.05	2.93 YES
L0011563	0	0.29790E-06	653322.6	4183166.5	6.9	3.15	4.05	2.93 YES
L0011564	0	0.29790E-06	653331.3	4183166.5	6.9	3.15	4.05	2.93 YES
L0011565	0	0.29790E-06	653340.1	4183166.4	6.9	3.15	4.05	2.93 YES
L0011566	0	0.29790E-06	653348.8	4183166.3	6.9	3.15	4.05	2.93 YES
L0011567	0	0.29790E-06	653357.5	4183166.1	7.0	3.15	4.05	2.93 YES
L0011568	0	0.29790E-06	653366.2	4183166.0	7.0	3.15	4.05	2.93 YES
L0011569	0	0.29790E-06	653374.9	4183165.8	7.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011570	0	0.29790E-06	653383.6	4183165.7	7.0	3.15	4.05	2.93	YES	
L0011571	0	0.29790E-06	653392.3	4183165.6	7.0	3.15	4.05	2.93	YES	
L0011572	0	0.29790E-06	653401.0	4183165.4	7.0	3.15	4.05	2.93	YES	
L0011573	0	0.29790E-06	653409.7	4183165.3	7.1	3.15	4.05	2.93	YES	
L0011574	0	0.13780E-06	653414.8	4183165.3	7.1	3.15	4.05	2.93	YES	
L0011575	0	0.13780E-06	653423.5	4183164.8	7.1	3.15	4.05	2.93	YES	
L0011576	0	0.13780E-06	653432.2	4183164.2	7.2	3.15	4.05	2.93	YES	
L0011577	0	0.13780E-06	653440.9	4183163.7	7.2	3.15	4.05	2.93	YES	
L0011578	0	0.13780E-06	653449.6	4183163.1	7.2	3.15	4.05	2.93	YES	
L0011579	0	0.13780E-06	653458.3	4183162.5	7.3	3.15	4.05	2.93	YES	
L0011580	0	0.13780E-06	653466.9	4183161.9	7.3	3.15	4.05	2.93	YES	
L0011581	0	0.13780E-06	653475.6	4183161.3	7.4	3.15	4.05	2.93	YES	
L0011582	0	0.13780E-06	653484.3	4183160.7	7.4	3.15	4.05	2.93	YES	
L0011583	0	0.13780E-06	653493.0	4183160.0	7.4	3.15	4.05	2.93	YES	
L0011584	0	0.13780E-06	653501.7	4183159.4	7.5	3.15	4.05	2.93	YES	

L0011585	0	0.13780E-06	653510.4	4183158.8	7.5	3.15	4.05	2.93 YES
L0011586	0	0.13780E-06	653519.0	4183157.8	7.5	3.15	4.05	2.93 YES
L0011587	0	0.13780E-06	653527.7	4183156.9	7.5	3.15	4.05	2.93 YES
L0011588	0	0.13780E-06	653536.3	4183155.8	7.6	3.15	4.05	2.93 YES
L0011589	0	0.13780E-06	653544.9	4183154.0	7.6	3.15	4.05	2.93 YES
L0011590	0	0.13780E-06	653553.4	4183152.2	7.6	3.15	4.05	2.93 YES
L0011591	0	0.13780E-06	653561.9	4183150.2	7.6	3.15	4.05	2.93 YES
L0011592	0	0.13780E-06	653570.3	4183148.1	7.6	3.15	4.05	2.93 YES
L0011593	0	0.13780E-06	653578.8	4183146.0	7.7	3.15	4.05	2.93 YES
L0011594	0	0.13780E-06	653586.9	4183143.0	7.7	3.15	4.05	2.93 YES
L0011595	0	0.13780E-06	653595.1	4183139.9	7.7	3.15	4.05	2.93 YES
L0011596	0	0.13780E-06	653603.3	4183136.9	7.7	3.15	4.05	2.93 YES
L0011597	0	0.13780E-06	653611.2	4183133.4	7.7	3.15	4.05	2.93 YES
L0011598	0	0.13780E-06	653619.1	4183129.7	7.7	3.15	4.05	2.93 YES
L0011599	0	0.13780E-06	653627.0	4183126.0	7.7	3.15	4.05	2.93 YES
L0011600	0	0.13780E-06	653634.7	4183122.0	7.7	3.15	4.05	2.93 YES
L0011601	0	0.13780E-06	653642.5	4183118.0	7.8	3.15	4.05	2.93 YES
L0011602	0	0.13780E-06	653650.2	4183114.0	7.8	3.15	4.05	2.93 YES
L0011603	0	0.13780E-06	653657.8	4183109.8	7.8	3.15	4.05	2.93 YES
L0011604	0	0.13780E-06	653665.5	4183105.6	7.8	3.15	4.05	2.93 YES
L0011605	0	0.13780E-06	653673.1	4183101.5	7.8	3.15	4.05	2.93 YES
L0011606	0	0.13780E-06	653680.8	4183097.3	7.8	3.15	4.05	2.93 YES
L0011607	0	0.13780E-06	653688.4	4183093.1	7.8	3.15	4.05	2.93 YES
L0011608	0	0.13780E-06	653696.0	4183088.8	7.8	3.15	4.05	2.93 YES
L0011609	0	0.13780E-06	653703.5	4183084.4	7.8	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011610	0	0.13780E-06	653711.0	4183080.0	7.8	3.15	4.05	2.93	YES	
L0011611	0	0.13780E-06	653718.5	4183075.6	7.8	3.15	4.05	2.93	YES	
L0011612	0	0.13780E-06	653726.0	4183071.2	7.8	3.15	4.05	2.93	YES	
L0011613	0	0.13780E-06	653733.5	4183066.8	7.8	3.15	4.05	2.93	YES	
L0011614	0	0.13780E-06	653741.1	4183062.4	7.8	3.15	4.05	2.93	YES	
L0011615	0	0.13780E-06	653748.6	4183058.0	7.7	3.15	4.05	2.93	YES	
L0011616	0	0.13780E-06	653756.1	4183053.6	7.7	3.15	4.05	2.93	YES	
L0011617	0	0.13780E-06	653763.6	4183049.2	7.7	3.15	4.05	2.93	YES	
L0011618	0	0.13780E-06	653771.2	4183044.9	7.7	3.15	4.05	2.93	YES	
L0011619	0	0.13780E-06	653778.9	4183040.7	7.7	3.15	4.05	2.93	YES	
L0011620	0	0.13780E-06	653786.5	4183036.6	7.7	3.15	4.05	2.93	YES	
L0011621	0	0.13780E-06	653794.1	4183032.4	7.7	3.15	4.05	2.93	YES	
L0011622	0	0.13780E-06	653801.8	4183028.2	7.7	3.15	4.05	2.93	YES	
L0011623	0	0.13780E-06	653809.4	4183024.0	7.7	3.15	4.05	2.93	YES	
L0011624	0	0.13780E-06	653817.1	4183019.9	7.7	3.15	4.05	2.93	YES	

L0011625	0	0.13780E-06	653824.7	4183015.7	7.7	3.15	4.05	2.93 YES
L0011626	0	0.13780E-06	653832.4	4183011.5	7.7	3.15	4.05	2.93 YES
L0011627	0	0.13780E-06	653840.0	4183007.3	7.7	3.15	4.05	2.93 YES
L0011628	0	0.13780E-06	653847.7	4183003.2	7.7	3.15	4.05	2.93 YES
L0011629	0	0.13780E-06	653855.3	4182999.1	7.7	3.15	4.05	2.93 YES
L0011630	0	0.13780E-06	653863.0	4182994.9	7.7	3.15	4.05	2.93 YES
L0011631	0	0.13780E-06	653870.7	4182990.8	7.7	3.15	4.05	2.93 YES
L0011632	0	0.13780E-06	653878.4	4182986.7	7.7	3.15	4.05	2.93 YES
L0011633	0	0.13780E-06	653886.0	4182982.6	7.7	3.15	4.05	2.93 YES
L0011634	0	0.13780E-06	653893.7	4182978.4	7.7	3.15	4.05	2.93 YES
L0011635	0	0.13780E-06	653901.4	4182974.3	7.7	3.15	4.05	2.93 YES
L0011636	0	0.13780E-06	653909.0	4182970.2	7.7	3.15	4.05	2.93 YES
L0011637	0	0.15760E-06	653878.0	4184746.6	8.6	3.15	4.05	2.93 YES
L0011638	0	0.15760E-06	653878.2	4184737.9	8.6	3.15	4.05	2.93 YES
L0011639	0	0.15760E-06	653878.4	4184729.2	8.6	3.15	4.05	2.93 YES
L0011640	0	0.15760E-06	653878.6	4184720.5	8.6	3.15	4.05	2.93 YES
L0011641	0	0.15760E-06	653878.8	4184711.8	8.6	3.15	4.05	2.93 YES
L0011642	0	0.15760E-06	653879.0	4184703.1	8.6	3.15	4.05	2.93 YES
L0011643	0	0.15760E-06	653879.2	4184694.4	8.6	3.15	4.05	2.93 YES
L0011644	0	0.15760E-06	653879.4	4184685.7	8.6	3.15	4.05	2.93 YES
L0011645	0	0.15760E-06	653879.6	4184677.0	8.6	3.15	4.05	2.93 YES
L0011646	0	0.15760E-06	653879.8	4184668.3	8.6	3.15	4.05	2.93 YES
L0011647	0	0.15760E-06	653880.0	4184659.6	8.6	3.15	4.05	2.93 YES
L0011648	0	0.15760E-06	653880.2	4184650.9	8.6	3.15	4.05	2.93 YES
L0011649	0	0.15760E-06	653880.4	4184642.2	8.6	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011652	0	0.15760E-06	653881.0	4184616.1	8.6	3.15	4.05	2.93	YES	
L0011653	0	0.15760E-06	653881.2	4184607.4	8.6	3.15	4.05	2.93	YES	
L0011654	0	0.15760E-06	653881.4	4184598.7	8.6	3.15	4.05	2.93	YES	
L0011655	0	0.15760E-06	653881.6	4184590.0	8.6	3.15	4.05	2.93	YES	
L0011656	0	0.15760E-06	653881.8	4184581.3	8.6	3.15	4.05	2.93	YES	
L0011657	0	0.15760E-06	653882.0	4184572.6	8.6	3.15	4.05	2.93	YES	
L0011658	0	0.15760E-06	653882.2	4184563.9	8.6	3.15	4.05	2.93	YES	
L0011659	0	0.15760E-06	653882.4	4184555.2	8.6	3.15	4.05	2.93	YES	
L0011660	0	0.15760E-06	653882.6	4184546.5	8.6	3.15	4.05	2.93	YES	
L0011661	0	0.15760E-06	653882.8	4184537.8	8.6	3.15	4.05	2.93	YES	
L0011662	0	0.15760E-06	653883.0	4184529.1	8.6	3.15	4.05	2.93	YES	
L0011663	0	0.15760E-06	653883.2	4184520.4	8.6	3.15	4.05	2.93	YES	
L0011664	0	0.15760E-06	653883.4	4184511.7	8.6	3.15	4.05	2.93	YES	

L0011665	0	0.15760E-06	653883.6	4184503.0	8.6	3.15	4.05	2.93 YES
L0011666	0	0.15760E-06	653883.8	4184494.3	8.6	3.15	4.05	2.93 YES
L0011667	0	0.15760E-06	653884.0	4184485.6	8.5	3.15	4.05	2.93 YES
L0011668	0	0.15760E-06	653884.1	4184476.9	8.5	3.15	4.05	2.93 YES
L0011669	0	0.15760E-06	653884.3	4184468.2	8.4	3.15	4.05	2.93 YES
L0011670	0	0.15760E-06	653884.4	4184459.5	8.4	3.15	4.05	2.93 YES
L0011671	0	0.15760E-06	653884.6	4184450.8	8.4	3.15	4.05	2.93 YES
L0011672	0	0.15760E-06	653884.7	4184442.1	8.4	3.15	4.05	2.93 YES
L0011673	0	0.15760E-06	653884.9	4184433.4	8.4	3.15	4.05	2.93 YES
L0011674	0	0.15760E-06	653885.0	4184424.7	8.4	3.15	4.05	2.93 YES
L0011675	0	0.15760E-06	653885.2	4184416.0	8.4	3.15	4.05	2.93 YES
L0011676	0	0.15760E-06	653885.3	4184407.3	8.4	3.15	4.05	2.93 YES
L0011677	0	0.15760E-06	653885.4	4184398.6	8.4	3.15	4.05	2.93 YES
L0011678	0	0.15760E-06	653885.6	4184389.9	8.5	3.15	4.05	2.93 YES
L0011679	0	0.15760E-06	653885.7	4184381.3	8.5	3.15	4.05	2.93 YES
L0011680	0	0.15760E-06	653885.9	4184372.6	8.5	3.15	4.05	2.93 YES
L0011681	0	0.15760E-06	653886.0	4184363.9	8.6	3.15	4.05	2.93 YES
L0011682	0	0.15760E-06	653886.2	4184355.2	8.6	3.15	4.05	2.93 YES
L0011683	0	0.15760E-06	653886.3	4184346.5	8.6	3.15	4.05	2.93 YES
L0011684	0	0.15760E-06	653886.5	4184337.8	8.7	3.15	4.05	2.93 YES
L0011685	0	0.15760E-06	653886.6	4184329.1	8.7	3.15	4.05	2.93 YES
L0011686	0	0.15760E-06	653886.8	4184320.4	8.8	3.15	4.05	2.93 YES
L0011687	0	0.15760E-06	653886.9	4184311.7	8.8	3.15	4.05	2.93 YES
L0011688	0	0.15760E-06	653887.0	4184303.0	8.9	3.15	4.05	2.93 YES
L0011689	0	0.15760E-06	653887.2	4184294.3	9.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011692	0	0.15760E-06	653887.6	4184268.2	9.2	3.15	4.05	2.93	YES	
L0011693	0	0.15760E-06	653887.8	4184259.5	9.2	3.15	4.05	2.93	YES	
L0011694	0	0.15760E-06	653887.9	4184250.8	9.3	3.15	4.05	2.93	YES	
L0011695	0	0.15760E-06	653888.1	4184242.1	9.3	3.15	4.05	2.93	YES	
L0011696	0	0.15760E-06	653888.2	4184233.4	9.4	3.15	4.05	2.93	YES	
L0011697	0	0.15760E-06	653888.3	4184224.7	9.4	3.15	4.05	2.93	YES	
L0011698	0	0.15760E-06	653888.5	4184216.0	9.4	3.15	4.05	2.93	YES	
L0011699	0	0.15760E-06	653888.6	4184207.3	9.5	3.15	4.05	2.93	YES	
L0011700	0	0.15760E-06	653888.8	4184198.6	9.5	3.15	4.05	2.93	YES	
L0011701	0	0.15760E-06	653888.9	4184189.9	9.6	3.15	4.05	2.93	YES	
L0011702	0	0.15760E-06	653889.1	4184181.2	9.6	3.15	4.05	2.93	YES	
L0011703	0	0.15760E-06	653889.2	4184172.5	9.7	3.15	4.05	2.93	YES	
L0011704	0	0.15760E-06	653889.4	4184163.8	9.7	3.15	4.05	2.93	YES	

L0011705	0	0.15760E-06	653889.5	4184155.1	9.8	3.15	4.05	2.93 YES
L0011706	0	0.15760E-06	653889.6	4184146.4	9.8	3.15	4.05	2.93 YES
L0011707	0	0.15760E-06	653889.8	4184137.7	9.9	3.15	4.05	2.93 YES
L0011708	0	0.15760E-06	653889.9	4184129.0	9.9	3.15	4.05	2.93 YES
L0011709	0	0.15760E-06	653890.1	4184120.3	10.0	3.15	4.05	2.93 YES
L0011710	0	0.15760E-06	653890.2	4184111.6	10.0	3.15	4.05	2.93 YES
L0011711	0	0.15760E-06	653890.4	4184102.9	10.0	3.15	4.05	2.93 YES
L0011712	0	0.15760E-06	653890.5	4184094.2	10.1	3.15	4.05	2.93 YES
L0011713	0	0.15760E-06	653890.7	4184085.5	10.1	3.15	4.05	2.93 YES
L0011714	0	0.15760E-06	653890.8	4184076.8	10.1	3.15	4.05	2.93 YES
L0011715	0	0.15760E-06	653891.0	4184068.1	10.1	3.15	4.05	2.93 YES
L0011716	0	0.15760E-06	653891.1	4184059.4	10.1	3.15	4.05	2.93 YES
L0011717	0	0.15760E-06	653891.2	4184050.7	10.1	3.15	4.05	2.93 YES
L0011718	0	0.15760E-06	653891.4	4184042.0	10.1	3.15	4.05	2.93 YES
L0011719	0	0.15760E-06	653891.5	4184033.3	10.1	3.15	4.05	2.93 YES
L0011720	0	0.15760E-06	653891.7	4184024.6	10.1	3.15	4.05	2.93 YES
L0011721	0	0.15760E-06	653891.8	4184015.9	10.0	3.15	4.05	2.93 YES
L0011722	0	0.15760E-06	653892.0	4184007.2	10.0	3.15	4.05	2.93 YES
L0011723	0	0.15760E-06	653892.1	4183998.5	10.0	3.15	4.05	2.93 YES
L0011724	0	0.15760E-06	653892.3	4183989.8	10.0	3.15	4.05	2.93 YES
L0011725	0	0.15760E-06	653892.4	4183981.1	9.9	3.15	4.05	2.93 YES
L0011726	0	0.15760E-06	653892.5	4183972.4	9.9	3.15	4.05	2.93 YES
L0011727	0	0.15760E-06	653892.7	4183963.7	9.9	3.15	4.05	2.93 YES
L0011728	0	0.15760E-06	653892.8	4183955.0	9.8	3.15	4.05	2.93 YES
L0011729	0	0.15760E-06	653893.0	4183946.3	9.7	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0011732	0	0.15760E-06	653893.4	4183920.2	9.5	3.15	4.05	2.93	YES	
L0011733	0	0.15760E-06	653893.6	4183911.5	9.5	3.15	4.05	2.93	YES	
L0011734	0	0.15760E-06	653893.7	4183902.8	9.4	3.15	4.05	2.93	YES	
L0011735	0	0.15760E-06	653894.1	4183894.1	9.4	3.15	4.05	2.93	YES	
L0011736	0	0.15760E-06	653894.5	4183885.4	9.3	3.15	4.05	2.93	YES	
L0011737	0	0.15760E-06	653894.8	4183876.7	9.2	3.15	4.05	2.93	YES	
L0011738	0	0.15760E-06	653895.2	4183868.0	9.2	3.15	4.05	2.93	YES	
L0011739	0	0.15760E-06	653895.5	4183859.4	9.1	3.15	4.05	2.93	YES	
L0011740	0	0.15760E-06	653895.9	4183850.7	9.0	3.15	4.05	2.93	YES	
L0011741	0	0.15760E-06	653896.3	4183842.0	8.9	3.15	4.05	2.93	YES	
L0011742	0	0.15760E-06	653896.6	4183833.3	8.8	3.15	4.05	2.93	YES	
L0011743	0	0.15760E-06	653897.0	4183824.6	8.8	3.15	4.05	2.93	YES	
L0011744	0	0.15760E-06	653897.3	4183815.9	8.7	3.15	4.05	2.93	YES	

L0011745	0	0.15760E-06	653897.7	4183807.2	8.6	3.15	4.05	2.93 YES
L0011746	0	0.15760E-06	653898.1	4183798.5	8.5	3.15	4.05	2.93 YES
L0011747	0	0.15760E-06	653898.4	4183789.8	8.5	3.15	4.05	2.93 YES
L0011748	0	0.15760E-06	653898.8	4183781.1	8.4	3.15	4.05	2.93 YES
L0011749	0	0.15760E-06	653899.1	4183772.4	8.3	3.15	4.05	2.93 YES
L0011750	0	0.15760E-06	653899.5	4183763.7	8.2	3.15	4.05	2.93 YES
L0011751	0	0.15760E-06	653899.9	4183755.0	8.2	3.15	4.05	2.93 YES
L0011752	0	0.15760E-06	653900.2	4183746.4	8.1	3.15	4.05	2.93 YES
L0011753	0	0.15760E-06	653900.6	4183737.7	8.1	3.15	4.05	2.93 YES
L0011754	0	0.15760E-06	653900.9	4183729.0	8.0	3.15	4.05	2.93 YES
L0011755	0	0.15760E-06	653901.3	4183720.3	7.9	3.15	4.05	2.93 YES
L0011756	0	0.15760E-06	653901.7	4183711.6	7.9	3.15	4.05	2.93 YES
L0011757	0	0.15760E-06	653902.0	4183702.9	7.8	3.15	4.05	2.93 YES
L0011758	0	0.15760E-06	653902.4	4183694.2	7.8	3.15	4.05	2.93 YES
L0011759	0	0.15760E-06	653902.8	4183685.5	7.8	3.15	4.05	2.93 YES
L0011760	0	0.15760E-06	653903.1	4183676.8	7.8	3.15	4.05	2.93 YES
L0011761	0	0.15760E-06	653903.5	4183668.1	7.7	3.15	4.05	2.93 YES
L0011762	0	0.15760E-06	653903.8	4183659.4	7.7	3.15	4.05	2.93 YES
L0011763	0	0.15760E-06	653904.2	4183650.7	7.7	3.15	4.05	2.93 YES
L0011764	0	0.15760E-06	653904.6	4183642.0	7.7	3.15	4.05	2.93 YES
L0011765	0	0.15760E-06	653904.9	4183633.4	7.8	3.15	4.05	2.93 YES
L0011766	0	0.15760E-06	653905.2	4183624.7	7.8	3.15	4.05	2.93 YES
L0011767	0	0.15760E-06	653905.3	4183616.0	7.8	3.15	4.05	2.93 YES
L0011768	0	0.15760E-06	653905.5	4183607.3	7.9	3.15	4.05	2.93 YES
L0011769	0	0.15760E-06	653905.7	4183598.6	7.9	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011770	0	0.15760E-06	653905.8	4183589.9	8.0	3.15	4.05	2.93	YES	
L0011771	0	0.15760E-06	653906.0	4183581.2	8.1	3.15	4.05	2.93	YES	
L0011772	0	0.15760E-06	653906.1	4183572.5	8.2	3.15	4.05	2.93	YES	
L0011773	0	0.15760E-06	653906.3	4183563.8	8.2	3.15	4.05	2.93	YES	
L0011774	0	0.15760E-06	653906.5	4183555.1	8.2	3.15	4.05	2.93	YES	
L0011775	0	0.15760E-06	653906.6	4183546.4	8.2	3.15	4.05	2.93	YES	
L0011776	0	0.15760E-06	653906.8	4183537.7	8.3	3.15	4.05	2.93	YES	
L0011777	0	0.15760E-06	653907.0	4183529.0	8.3	3.15	4.05	2.93	YES	
L0011778	0	0.15760E-06	653907.1	4183520.3	8.3	3.15	4.05	2.93	YES	
L0011779	0	0.15760E-06	653907.3	4183511.6	8.3	3.15	4.05	2.93	YES	
L0011780	0	0.15760E-06	653907.4	4183502.9	8.3	3.15	4.05	2.93	YES	
L0011781	0	0.15760E-06	653907.6	4183494.2	8.3	3.15	4.05	2.93	YES	
L0011782	0	0.15760E-06	653907.8	4183485.5	8.3	3.15	4.05	2.93	YES	
L0011783	0	0.15760E-06	653907.9	4183476.8	8.3	3.15	4.05	2.93	YES	
L0011784	0	0.15760E-06	653908.1	4183468.1	8.3	3.15	4.05	2.93	YES	

L0011785	0	0.15760E-06	653908.3	4183459.4	8.3	3.15	4.05	2.93 YES
L0011786	0	0.15760E-06	653908.4	4183450.7	8.3	3.15	4.05	2.93 YES
L0011787	0	0.15760E-06	653908.6	4183442.0	8.3	3.15	4.05	2.93 YES
L0011788	0	0.15760E-06	653908.7	4183433.3	8.3	3.15	4.05	2.93 YES
L0011789	0	0.15760E-06	653908.9	4183424.6	8.3	3.15	4.05	2.93 YES
L0011790	0	0.15760E-06	653909.1	4183415.9	8.3	3.15	4.05	2.93 YES
L0011791	0	0.15760E-06	653909.2	4183407.2	8.3	3.15	4.05	2.93 YES
L0011792	0	0.15760E-06	653909.5	4183398.5	8.3	3.15	4.05	2.93 YES
L0011793	0	0.15760E-06	653909.7	4183389.8	8.3	3.15	4.05	2.93 YES
L0011794	0	0.15760E-06	653910.0	4183381.1	8.3	3.15	4.05	2.93 YES
L0011795	0	0.15760E-06	653910.3	4183372.4	8.3	3.15	4.05	2.93 YES
L0011796	0	0.15760E-06	653910.5	4183363.7	8.3	3.15	4.05	2.93 YES
L0011797	0	0.15760E-06	653910.8	4183355.0	8.3	3.15	4.05	2.93 YES
L0011798	0	0.15760E-06	653911.0	4183346.3	8.3	3.15	4.05	2.93 YES
L0011799	0	0.15760E-06	653911.3	4183337.6	8.3	3.15	4.05	2.93 YES
L0011800	0	0.15760E-06	653911.5	4183328.9	8.4	3.15	4.05	2.93 YES
L0011801	0	0.15760E-06	653911.8	4183320.2	8.4	3.15	4.05	2.93 YES
L0011802	0	0.15760E-06	653912.0	4183311.5	8.4	3.15	4.05	2.93 YES
L0011803	0	0.15760E-06	653912.3	4183302.8	8.4	3.15	4.05	2.93 YES
L0011804	0	0.15760E-06	653912.6	4183294.1	8.4	3.15	4.05	2.93 YES
L0011805	0	0.15760E-06	653912.8	4183285.4	8.4	3.15	4.05	2.93 YES
L0011806	0	0.15760E-06	653913.1	4183276.7	8.4	3.15	4.05	2.93 YES
L0011807	0	0.15760E-06	653913.3	4183268.1	8.4	3.15	4.05	2.93 YES
L0011808	0	0.15760E-06	653913.5	4183259.4	8.4	3.15	4.05	2.93 YES
L0011809	0	0.15760E-06	653913.6	4183250.7	8.4	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011810	0	0.15760E-06	653913.7	4183242.0	8.4	3.15	4.05	2.93	YES	
L0011811	0	0.15760E-06	653913.8	4183233.3	8.3	3.15	4.05	2.93	YES	
L0011812	0	0.15760E-06	653913.9	4183224.6	8.3	3.15	4.05	2.93	YES	
L0011813	0	0.15760E-06	653914.0	4183215.9	8.3	3.15	4.05	2.93	YES	
L0011814	0	0.15760E-06	653914.1	4183207.2	8.3	3.15	4.05	2.93	YES	
L0011815	0	0.15760E-06	653914.3	4183198.5	8.3	3.15	4.05	2.93	YES	
L0011816	0	0.15760E-06	653914.4	4183189.8	8.3	3.15	4.05	2.93	YES	
L0011817	0	0.15760E-06	653914.5	4183181.1	8.3	3.15	4.05	2.93	YES	
L0011818	0	0.15760E-06	653914.6	4183172.4	8.2	3.15	4.05	2.93	YES	
L0011819	0	0.15760E-06	653914.7	4183163.7	8.2	3.15	4.05	2.93	YES	
L0011820	0	0.15760E-06	653914.8	4183155.0	8.2	3.15	4.05	2.93	YES	
L0011821	0	0.15760E-06	653914.8	4183146.3	8.2	3.15	4.05	2.93	YES	
L0011822	0	0.15760E-06	653914.9	4183137.6	8.2	3.15	4.05	2.93	YES	
L0011823	0	0.15760E-06	653914.9	4183128.9	8.2	3.15	4.05	2.93	YES	
L0011824	0	0.15760E-06	653914.9	4183120.2	8.1	3.15	4.05	2.93	YES	

L0011825	0	0.15760E-06	653914.9	4183111.5	8.1	3.15	4.05	2.93 YES
L0011826	0	0.15760E-06	653914.9	4183102.8	8.1	3.15	4.05	2.93 YES
L0011827	0	0.15760E-06	653915.0	4183094.1	8.1	3.15	4.05	2.93 YES
L0011828	0	0.15760E-06	653915.0	4183085.4	8.1	3.15	4.05	2.93 YES
L0011829	0	0.15760E-06	653915.0	4183076.7	8.0	3.15	4.05	2.93 YES
L0011830	0	0.15760E-06	653915.0	4183068.0	8.0	3.15	4.05	2.93 YES
L0011831	0	0.15760E-06	653915.0	4183059.3	8.0	3.15	4.05	2.93 YES
L0011832	0	0.15760E-06	653915.1	4183050.6	7.9	3.15	4.05	2.93 YES
L0011833	0	0.15760E-06	653915.1	4183041.9	7.9	3.15	4.05	2.93 YES
L0011834	0	0.15760E-06	653915.1	4183033.2	7.9	3.15	4.05	2.93 YES
L0011835	0	0.15760E-06	653915.1	4183024.5	7.9	3.15	4.05	2.93 YES
L0011836	0	0.15760E-06	653915.1	4183015.8	7.8	3.15	4.05	2.93 YES
L0011837	0	0.15760E-06	653915.2	4183007.1	7.8	3.15	4.05	2.93 YES
L0011838	0	0.15760E-06	653915.2	4182998.4	7.8	3.15	4.05	2.93 YES
L0011839	0	0.15760E-06	653915.2	4182989.7	7.8	3.15	4.05	2.93 YES
L0011840	0	0.15760E-06	653915.2	4182981.0	7.7	3.15	4.05	2.93 YES
L0011841	0	0.15760E-06	653915.3	4182972.3	7.7	3.15	4.05	2.93 YES
L0011842	0	0.15760E-06	653915.3	4182963.6	7.7	3.15	4.05	2.93 YES
L0011843	0	0.15760E-06	653915.5	4182954.9	7.7	3.15	4.05	2.93 YES
L0011844	0	0.15760E-06	653915.6	4182946.2	7.6	3.15	4.05	2.93 YES
L0011845	0	0.15760E-06	653915.8	4182937.5	7.6	3.15	4.05	2.93 YES
L0011846	0	0.15760E-06	653915.9	4182928.8	7.6	3.15	4.05	2.93 YES
L0011847	0	0.15760E-06	653916.1	4182920.1	7.6	3.15	4.05	2.93 YES
L0011848	0	0.15760E-06	653916.3	4182911.4	7.5	3.15	4.05	2.93 YES
L0011849	0	0.15760E-06	653916.4	4182902.7	7.5	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011850	0	0.15760E-06	653916.6	4182894.0	7.5	3.15	4.05	2.93	YES	
L0011851	0	0.15760E-06	653916.7	4182885.3	7.5	3.15	4.05	2.93	YES	
L0011852	0	0.15760E-06	653916.9	4182876.6	7.4	3.15	4.05	2.93	YES	
L0011853	0	0.15760E-06	653917.0	4182867.9	7.4	3.15	4.05	2.93	YES	
L0011854	0	0.15760E-06	653917.2	4182859.2	7.4	3.15	4.05	2.93	YES	
L0011855	0	0.15760E-06	653917.3	4182850.5	7.4	3.15	4.05	2.93	YES	
L0011856	0	0.15760E-06	653917.5	4182841.8	7.4	3.15	4.05	2.93	YES	
L0011857	0	0.15760E-06	653917.6	4182833.1	7.3	3.15	4.05	2.93	YES	
L0011858	0	0.15760E-06	653917.8	4182824.4	7.3	3.15	4.05	2.93	YES	
L0011859	0	0.15760E-06	653917.9	4182815.7	7.3	3.15	4.05	2.93	YES	
L0011860	0	0.15760E-06	653918.1	4182807.0	7.3	3.15	4.05	2.93	YES	
L0011861	0	0.15760E-06	653918.3	4182798.3	7.3	3.15	4.05	2.93	YES	
L0011862	0	0.15760E-06	653918.4	4182789.6	7.3	3.15	4.05	2.93	YES	
L0011863	0	0.15760E-06	653918.6	4182780.9	7.3	3.15	4.05	2.93	YES	
L0011864	0	0.15760E-06	653918.7	4182772.2	7.3	3.15	4.05	2.93	YES	

L0011865	0	0.15760E-06	653918.9	4182763.5	7.3	3.15	4.05	2.93 YES
L0011866	0	0.97040E-06	653912.6	4182756.6	7.3	3.15	4.05	2.93 YES
L0011867	0	0.97040E-06	653903.9	4182756.7	7.2	3.15	4.05	2.93 YES
L0011868	0	0.97040E-06	653895.2	4182756.7	7.2	3.15	4.05	2.93 YES
L0011869	0	0.97040E-06	653886.5	4182756.8	7.2	3.15	4.05	2.93 YES
L0011870	0	0.97040E-06	653877.8	4182757.4	7.1	3.15	4.05	2.93 YES
L0011871	0	0.97040E-06	653869.2	4182758.4	7.1	3.15	4.05	2.93 YES
L0011872	0	0.97040E-06	653860.5	4182759.5	7.1	3.15	4.05	2.93 YES
L0011873	0	0.97040E-06	653851.9	4182760.6	7.0	3.15	4.05	2.93 YES
L0011874	0	0.97040E-06	653843.3	4182762.0	7.0	3.15	4.05	2.93 YES
L0011875	0	0.97040E-06	653834.8	4182763.9	7.0	3.15	4.05	2.93 YES
L0011876	0	0.97040E-06	653826.4	4182765.9	6.9	3.15	4.05	2.93 YES
L0011877	0	0.97040E-06	653817.9	4182767.8	6.9	3.15	4.05	2.93 YES
L0011878	0	0.97040E-06	653809.6	4182770.2	6.9	3.15	4.05	2.93 YES
L0011879	0	0.97040E-06	653801.4	4182773.4	6.9	3.15	4.05	2.93 YES
L0011880	0	0.97040E-06	653793.3	4182776.5	6.9	3.15	4.05	2.93 YES
L0011881	0	0.97040E-06	653785.4	4182780.0	6.9	3.15	4.05	2.93 YES
L0011882	0	0.97040E-06	653777.6	4182783.8	6.9	3.15	4.05	2.93 YES
L0011883	0	0.97040E-06	653769.7	4182787.7	6.9	3.15	4.05	2.93 YES
L0011884	0	0.97040E-06	653761.9	4182791.5	6.9	3.15	4.05	2.93 YES
L0011885	0	0.97040E-06	653754.1	4182795.4	6.9	3.15	4.05	2.93 YES
L0011886	0	0.97040E-06	653746.9	4182800.1	6.9	3.15	4.05	2.93 YES
L0011887	0	0.97040E-06	653739.8	4182805.1	7.0	3.15	4.05	2.93 YES
L0011888	0	0.97040E-06	653732.7	4182810.1	7.0	3.15	4.05	2.93 YES
L0011889	0	0.97040E-06	653725.6	4182815.2	7.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011890	0	0.97040E-06	653718.4	4182820.2	7.0	3.15	4.05	2.93	YES	
L0011891	0	0.97040E-06	653711.3	4182825.2	7.0	3.15	4.05	2.93	YES	
L0011892	0	0.97040E-06	653704.2	4182830.2	7.0	3.15	4.05	2.93	YES	
L0011893	0	0.97040E-06	653697.4	4182835.6	6.9	3.15	4.05	2.93	YES	
L0011894	0	0.97040E-06	653691.4	4182841.9	6.9	3.15	4.05	2.93	YES	
L0011895	0	0.97040E-06	653685.5	4182848.2	6.9	3.15	4.05	2.93	YES	
L0011896	0	0.97040E-06	653679.5	4182854.5	6.9	3.15	4.05	2.93	YES	
L0011897	0	0.97040E-06	653673.5	4182860.9	6.9	3.15	4.05	2.93	YES	
L0011898	0	0.97040E-06	653667.5	4182867.2	6.9	3.15	4.05	2.93	YES	
L0011899	0	0.97040E-06	653661.8	4182873.8	6.9	3.15	4.05	2.93	YES	
L0011900	0	0.97040E-06	653656.2	4182880.4	6.9	3.15	4.05	2.93	YES	
L0011901	0	0.97040E-06	653650.6	4182887.1	7.0	3.15	4.05	2.93	YES	
L0011902	0	0.97040E-06	653645.1	4182893.7	7.0	3.15	4.05	2.93	YES	
L0011903	0	0.97040E-06	653639.7	4182900.6	7.0	3.15	4.05	2.93	YES	
L0011904	0	0.97040E-06	653634.3	4182907.4	7.0	3.15	4.05	2.93	YES	

L0011905	0	0.97040E-06	653628.9	4182914.2	7.0	3.15	4.05	2.93 YES
L0011906	0	0.97040E-06	653623.5	4182921.0	7.0	3.15	4.05	2.93 YES
L0011907	0	0.97040E-06	653618.3	4182928.1	7.1	3.15	4.05	2.93 YES
L0011908	0	0.97040E-06	653613.3	4182935.1	7.1	3.15	4.05	2.93 YES
L0011909	0	0.97040E-06	653608.2	4182942.2	7.1	3.15	4.05	2.93 YES
L0011910	0	0.97040E-06	653603.1	4182949.3	7.2	3.15	4.05	2.93 YES
L0011911	0	0.97040E-06	653598.0	4182956.3	7.2	3.15	4.05	2.93 YES
L0011912	0	0.97040E-06	653592.9	4182963.4	7.2	3.15	4.05	2.93 YES
L0011913	0	0.97040E-06	653587.9	4182970.4	7.3	3.15	4.05	2.93 YES
L0011914	0	0.97040E-06	653582.8	4182977.5	7.3	3.15	4.05	2.93 YES
L0011915	0	0.97040E-06	653577.7	4182984.6	7.3	3.15	4.05	2.93 YES
L0011916	0	0.97040E-06	653572.6	4182991.6	7.3	3.15	4.05	2.93 YES
L0011917	0	0.97040E-06	653567.3	4182998.5	7.3	3.15	4.05	2.93 YES
L0011918	0	0.97040E-06	653561.5	4183005.0	7.3	3.15	4.05	2.93 YES
L0011919	0	0.97040E-06	653555.6	4183011.4	7.4	3.15	4.05	2.93 YES
L0011920	0	0.29800E-06	653966.4	4180637.4	8.1	3.15	4.05	2.93 YES
L0011921	0	0.29800E-06	653966.2	4180646.1	8.1	3.15	4.05	2.93 YES
L0011922	0	0.29800E-06	653966.0	4180654.8	8.1	3.15	4.05	2.93 YES
L0011923	0	0.29800E-06	653965.8	4180663.5	8.1	3.15	4.05	2.93 YES
L0011924	0	0.29800E-06	653965.5	4180672.2	8.0	3.15	4.05	2.93 YES
L0011925	0	0.29800E-06	653965.3	4180680.9	8.0	3.15	4.05	2.93 YES
L0011926	0	0.29800E-06	653965.1	4180689.6	8.0	3.15	4.05	2.93 YES
L0011927	0	0.29800E-06	653964.9	4180698.3	8.0	3.15	4.05	2.93 YES
L0011928	0	0.29800E-06	653964.7	4180707.0	8.0	3.15	4.05	2.93 YES
L0011929	0	0.29800E-06	653964.5	4180715.7	8.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011930	0	0.29800E-06	653964.3	4180724.4	8.0	3.15	4.05	2.93	YES	
L0011931	0	0.29800E-06	653964.1	4180733.1	7.9	3.15	4.05	2.93	YES	
L0011932	0	0.29800E-06	653963.9	4180741.8	7.9	3.15	4.05	2.93	YES	
L0011933	0	0.29800E-06	653963.7	4180750.5	7.9	3.15	4.05	2.93	YES	
L0011934	0	0.29800E-06	653963.5	4180759.2	7.9	3.15	4.05	2.93	YES	
L0011935	0	0.29800E-06	653963.3	4180767.9	7.9	3.15	4.05	2.93	YES	
L0011936	0	0.29800E-06	653963.1	4180776.6	7.9	3.15	4.05	2.93	YES	
L0011937	0	0.29800E-06	653962.9	4180785.3	7.9	3.15	4.05	2.93	YES	
L0011938	0	0.29800E-06	653962.7	4180794.0	7.9	3.15	4.05	2.93	YES	
L0011939	0	0.29800E-06	653962.5	4180802.7	7.9	3.15	4.05	2.93	YES	
L0011940	0	0.29800E-06	653962.3	4180811.4	7.9	3.15	4.05	2.93	YES	
L0011941	0	0.29800E-06	653962.1	4180820.1	7.9	3.15	4.05	2.93	YES	
L0011942	0	0.29800E-06	653961.9	4180828.8	7.9	3.15	4.05	2.93	YES	
L0011943	0	0.29800E-06	653961.8	4180837.5	7.9	3.15	4.05	2.93	YES	
L0011944	0	0.29800E-06	653961.6	4180846.1	7.9	3.15	4.05	2.93	YES	

L0011945	0	0.29800E-06	653961.4	4180854.8	7.9	3.15	4.05	2.93 YES
L0011946	0	0.29800E-06	653961.2	4180863.5	7.9	3.15	4.05	2.93 YES
L0011947	0	0.29800E-06	653961.0	4180872.2	7.9	3.15	4.05	2.93 YES
L0011948	0	0.29800E-06	653960.9	4180880.9	7.9	3.15	4.05	2.93 YES
L0011949	0	0.29800E-06	653960.7	4180889.6	7.9	3.15	4.05	2.93 YES
L0011950	0	0.29800E-06	653960.5	4180898.3	7.9	3.15	4.05	2.93 YES
L0011951	0	0.29800E-06	653960.3	4180907.0	7.9	3.15	4.05	2.93 YES
L0011952	0	0.29800E-06	653960.1	4180915.7	7.9	3.15	4.05	2.93 YES
L0011953	0	0.29800E-06	653959.9	4180924.4	7.9	3.15	4.05	2.93 YES
L0011954	0	0.29800E-06	653959.8	4180933.1	7.9	3.15	4.05	2.93 YES
L0011955	0	0.29800E-06	653959.6	4180941.8	7.9	3.15	4.05	2.93 YES
L0011956	0	0.29800E-06	653959.4	4180950.5	7.9	3.15	4.05	2.93 YES
L0011957	0	0.29800E-06	653959.2	4180959.2	8.0	3.15	4.05	2.93 YES
L0011958	0	0.29800E-06	653959.0	4180967.9	8.0	3.15	4.05	2.93 YES
L0011959	0	0.29800E-06	653958.8	4180976.6	8.0	3.15	4.05	2.93 YES
L0011960	0	0.29800E-06	653958.6	4180985.3	8.0	3.15	4.05	2.93 YES
L0011961	0	0.29800E-06	653958.4	4180994.0	8.0	3.15	4.05	2.93 YES
L0011962	0	0.29800E-06	653958.2	4181002.7	8.0	3.15	4.05	2.93 YES
L0011963	0	0.29800E-06	653958.1	4181011.4	8.0	3.15	4.05	2.93 YES
L0011964	0	0.29800E-06	653957.9	4181020.1	8.1	3.15	4.05	2.93 YES
L0011965	0	0.29800E-06	653957.7	4181028.8	8.1	3.15	4.05	2.93 YES
L0011966	0	0.29800E-06	653957.5	4181037.5	8.1	3.15	4.05	2.93 YES
L0011967	0	0.29800E-06	653957.3	4181046.2	8.1	3.15	4.05	2.93 YES
L0011968	0	0.29800E-06	653957.1	4181054.9	8.2	3.15	4.05	2.93 YES
L0011969	0	0.29800E-06	653956.9	4181063.6	8.2	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011972	0	0.29800E-06	653956.3	4181089.7	8.3	3.15	4.05	2.93	YES	
L0011973	0	0.29800E-06	653956.1	4181098.4	8.3	3.15	4.05	2.93	YES	
L0011974	0	0.29800E-06	653955.9	4181107.1	8.3	3.15	4.05	2.93	YES	
L0011975	0	0.29800E-06	653955.7	4181115.8	8.3	3.15	4.05	2.93	YES	
L0011976	0	0.29800E-06	653955.5	4181124.5	8.3	3.15	4.05	2.93	YES	
L0011977	0	0.29800E-06	653955.3	4181133.2	8.3	3.15	4.05	2.93	YES	
L0011978	0	0.29800E-06	653955.2	4181141.9	8.3	3.15	4.05	2.93	YES	
L0011979	0	0.29800E-06	653955.0	4181150.6	8.3	3.15	4.05	2.93	YES	
L0011980	0	0.29800E-06	653954.8	4181159.3	8.3	3.15	4.05	2.93	YES	
L0011981	0	0.29800E-06	653954.6	4181168.0	8.3	3.15	4.05	2.93	YES	
L0011982	0	0.29800E-06	653954.4	4181176.7	8.3	3.15	4.05	2.93	YES	
L0011983	0	0.29800E-06	653954.2	4181185.4	8.3	3.15	4.05	2.93	YES	
L0011984	0	0.29800E-06	653954.0	4181194.1	8.4	3.15	4.05	2.93	YES	

L0011985	0	0.29800E-06	653953.8	4181202.8	8.4	3.15	4.05	2.93 YES
L0011986	0	0.29800E-06	653953.6	4181211.5	8.4	3.15	4.05	2.93 YES
L0011987	0	0.29800E-06	653953.4	4181220.2	8.4	3.15	4.05	2.93 YES
L0011988	0	0.29800E-06	653953.2	4181228.9	8.5	3.15	4.05	2.93 YES
L0011989	0	0.29800E-06	653953.0	4181237.6	8.8	3.15	4.05	2.93 YES
L0011990	0	0.29800E-06	653952.8	4181246.3	9.1	3.15	4.05	2.93 YES
L0011991	0	0.29800E-06	653952.6	4181254.9	9.5	3.15	4.05	2.93 YES
L0011992	0	0.29800E-06	653952.4	4181263.6	9.6	3.15	4.05	2.93 YES
L0011993	0	0.29800E-06	653952.2	4181272.3	9.8	3.15	4.05	2.93 YES
L0011994	0	0.29800E-06	653952.0	4181281.0	9.9	3.15	4.05	2.93 YES
L0011995	0	0.29800E-06	653951.8	4181289.7	10.0	3.15	4.05	2.93 YES
L0011996	0	0.29800E-06	653951.6	4181298.4	10.0	3.15	4.05	2.93 YES
L0011997	0	0.29800E-06	653951.4	4181307.1	10.0	3.15	4.05	2.93 YES
L0011998	0	0.29800E-06	653951.2	4181315.8	10.0	3.15	4.05	2.93 YES
L0011999	0	0.29800E-06	653951.0	4181324.5	9.9	3.15	4.05	2.93 YES
L0012000	0	0.29800E-06	653950.8	4181333.2	9.9	3.15	4.05	2.93 YES
L0012001	0	0.29800E-06	653950.6	4181341.9	9.9	3.15	4.05	2.93 YES
L0012002	0	0.29800E-06	653950.4	4181350.6	9.9	3.15	4.05	2.93 YES
L0012003	0	0.29800E-06	653950.2	4181359.3	9.9	3.15	4.05	2.93 YES
L0012004	0	0.29800E-06	653950.0	4181368.0	9.8	3.15	4.05	2.93 YES
L0012005	0	0.29800E-06	653949.8	4181376.7	9.8	3.15	4.05	2.93 YES
L0012006	0	0.29800E-06	653949.6	4181385.4	9.8	3.15	4.05	2.93 YES
L0012007	0	0.29800E-06	653949.4	4181394.1	9.7	3.15	4.05	2.93 YES
L0012008	0	0.29800E-06	653949.2	4181402.8	9.7	3.15	4.05	2.93 YES
L0012009	0	0.29800E-06	653949.0	4181411.5	9.6	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012010	0	0.29800E-06	653948.8	4181420.2	9.6	3.15	4.05	2.93	YES	
L0012011	0	0.29800E-06	653948.6	4181428.9	9.6	3.15	4.05	2.93	YES	
L0012012	0	0.29800E-06	653948.4	4181437.6	9.6	3.15	4.05	2.93	YES	
L0012013	0	0.29800E-06	653948.2	4181446.3	9.6	3.15	4.05	2.93	YES	
L0012014	0	0.29800E-06	653948.0	4181455.0	9.6	3.15	4.05	2.93	YES	
L0012015	0	0.29800E-06	653947.8	4181463.7	9.5	3.15	4.05	2.93	YES	
L0012016	0	0.29800E-06	653947.6	4181472.4	9.5	3.15	4.05	2.93	YES	
L0012017	0	0.29800E-06	653947.4	4181481.1	9.2	3.15	4.05	2.93	YES	
L0012018	0	0.29800E-06	653947.2	4181489.8	8.9	3.15	4.05	2.93	YES	
L0012019	0	0.29800E-06	653947.0	4181498.5	8.5	3.15	4.05	2.93	YES	
L0012020	0	0.29800E-06	653946.8	4181507.2	8.3	3.15	4.05	2.93	YES	
L0012021	0	0.29800E-06	653946.7	4181515.9	8.3	3.15	4.05	2.93	YES	
L0012022	0	0.29800E-06	653946.5	4181524.6	8.3	3.15	4.05	2.93	YES	
L0012023	0	0.29800E-06	653946.3	4181533.3	8.3	3.15	4.05	2.93	YES	
L0012024	0	0.29800E-06	653946.1	4181542.0	8.2	3.15	4.05	2.93	YES	

L0012025	0	0.29800E-06	653945.9	4181550.7	8.2	3.15	4.05	2.93 YES
L0012026	0	0.29800E-06	653945.7	4181559.4	8.2	3.15	4.05	2.93 YES
L0012027	0	0.29800E-06	653945.5	4181568.1	8.2	3.15	4.05	2.93 YES
L0012028	0	0.29800E-06	653945.3	4181576.8	8.2	3.15	4.05	2.93 YES
L0012029	0	0.29800E-06	653945.1	4181585.5	8.2	3.15	4.05	2.93 YES
L0012030	0	0.29800E-06	653944.9	4181594.2	8.1	3.15	4.05	2.93 YES
L0012031	0	0.29800E-06	653944.7	4181602.9	8.1	3.15	4.05	2.93 YES
L0012032	0	0.29800E-06	653944.5	4181611.6	8.1	3.15	4.05	2.93 YES
L0012033	0	0.29800E-06	653944.3	4181620.3	8.1	3.15	4.05	2.93 YES
L0012034	0	0.29800E-06	653944.1	4181629.0	8.1	3.15	4.05	2.93 YES
L0012035	0	0.29800E-06	653943.9	4181637.6	8.1	3.15	4.05	2.93 YES
L0012036	0	0.29800E-06	653943.7	4181646.3	8.1	3.15	4.05	2.93 YES
L0012037	0	0.29800E-06	653943.5	4181655.0	8.1	3.15	4.05	2.93 YES
L0012038	0	0.29800E-06	653943.3	4181663.7	8.1	3.15	4.05	2.93 YES
L0012039	0	0.29800E-06	653943.1	4181672.4	8.0	3.15	4.05	2.93 YES
L0012040	0	0.29800E-06	653942.9	4181681.1	8.0	3.15	4.05	2.93 YES
L0012041	0	0.29800E-06	653942.7	4181689.8	8.0	3.15	4.05	2.93 YES
L0012042	0	0.29800E-06	653942.5	4181698.5	8.0	3.15	4.05	2.93 YES
L0012043	0	0.29800E-06	653942.3	4181707.2	8.0	3.15	4.05	2.93 YES
L0012044	0	0.29800E-06	653942.1	4181715.9	8.0	3.15	4.05	2.93 YES
L0012045	0	0.29800E-06	653941.9	4181724.6	8.0	3.15	4.05	2.93 YES
L0012046	0	0.29800E-06	653941.7	4181733.3	8.0	3.15	4.05	2.93 YES
L0012047	0	0.29800E-06	653941.5	4181742.0	8.0	3.15	4.05	2.93 YES
L0012048	0	0.29800E-06	653941.3	4181750.7	7.9	3.15	4.05	2.93 YES
L0012049	0	0.29800E-06	653941.1	4181759.4	7.9	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012050	0	0.29800E-06	653940.9	4181768.1	7.9	3.15	4.05	2.93	YES	
L0012051	0	0.29800E-06	653940.7	4181776.8	7.9	3.15	4.05	2.93	YES	
L0012052	0	0.29800E-06	653940.5	4181785.5	7.9	3.15	4.05	2.93	YES	
L0012053	0	0.29800E-06	653940.3	4181794.2	7.9	3.15	4.05	2.93	YES	
L0012054	0	0.29800E-06	653940.1	4181802.9	7.9	3.15	4.05	2.93	YES	
L0012055	0	0.29800E-06	653939.9	4181811.6	7.9	3.15	4.05	2.93	YES	
L0012056	0	0.29800E-06	653939.7	4181820.3	7.8	3.15	4.05	2.93	YES	
L0012057	0	0.29800E-06	653939.5	4181829.0	7.8	3.15	4.05	2.93	YES	
L0012058	0	0.29800E-06	653939.3	4181837.7	7.8	3.15	4.05	2.93	YES	
L0012059	0	0.29800E-06	653939.1	4181846.4	7.8	3.15	4.05	2.93	YES	
L0012060	0	0.29800E-06	653938.9	4181855.1	7.8	3.15	4.05	2.93	YES	
L0012061	0	0.29800E-06	653938.7	4181863.8	7.8	3.15	4.05	2.93	YES	
L0012062	0	0.29800E-06	653938.5	4181872.5	7.8	3.15	4.05	2.93	YES	
L0012063	0	0.29800E-06	653938.3	4181881.2	7.8	3.15	4.05	2.93	YES	
L0012064	0	0.29800E-06	653938.1	4181889.9	7.8	3.15	4.05	2.93	YES	

L0012065	0	0.29800E-06	653937.9	4181898.6	7.8	3.15	4.05	2.93 YES
L0012066	0	0.29800E-06	653937.7	4181907.3	7.8	3.15	4.05	2.93 YES
L0012067	0	0.29800E-06	653937.5	4181916.0	7.8	3.15	4.05	2.93 YES
L0012068	0	0.29800E-06	653937.3	4181924.7	7.8	3.15	4.05	2.93 YES
L0012069	0	0.29800E-06	653937.1	4181933.4	7.8	3.15	4.05	2.93 YES
L0012070	0	0.29800E-06	653936.9	4181942.1	7.8	3.15	4.05	2.93 YES
L0012071	0	0.29800E-06	653936.7	4181950.8	7.7	3.15	4.05	2.93 YES
L0012072	0	0.29800E-06	653936.5	4181959.5	7.7	3.15	4.05	2.93 YES
L0012073	0	0.29800E-06	653936.3	4181968.2	7.7	3.15	4.05	2.93 YES
L0012074	0	0.29800E-06	653936.1	4181976.9	7.7	3.15	4.05	2.93 YES
L0012075	0	0.29800E-06	653935.9	4181985.6	7.7	3.15	4.05	2.93 YES
L0012076	0	0.29800E-06	653935.7	4181994.3	7.7	3.15	4.05	2.93 YES
L0012077	0	0.29800E-06	653935.5	4182003.0	7.7	3.15	4.05	2.93 YES
L0012078	0	0.29800E-06	653935.3	4182011.7	7.7	3.15	4.05	2.93 YES
L0012079	0	0.29800E-06	653935.1	4182020.4	7.7	3.15	4.05	2.93 YES
L0012080	0	0.29800E-06	653934.9	4182029.0	7.7	3.15	4.05	2.93 YES
L0012081	0	0.29800E-06	653934.7	4182037.7	7.7	3.15	4.05	2.93 YES
L0012082	0	0.29800E-06	653934.5	4182046.4	7.7	3.15	4.05	2.93 YES
L0012083	0	0.29800E-06	653934.3	4182055.1	7.7	3.15	4.05	2.93 YES
L0012084	0	0.29800E-06	653934.1	4182063.8	7.7	3.15	4.05	2.93 YES
L0012085	0	0.29800E-06	653934.0	4182072.5	7.7	3.15	4.05	2.93 YES
L0012086	0	0.29800E-06	653933.8	4182081.2	7.7	3.15	4.05	2.93 YES
L0012087	0	0.29800E-06	653933.6	4182089.9	7.7	3.15	4.05	2.93 YES
L0012088	0	0.29800E-06	653933.4	4182098.6	7.7	3.15	4.05	2.93 YES
L0012089	0	0.29800E-06	653933.2	4182107.3	7.7	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012092	0	0.29800E-06	653932.6	4182133.4	7.7	3.15	4.05	2.93	YES	
L0012093	0	0.29800E-06	653932.4	4182142.1	7.7	3.15	4.05	2.93	YES	
L0012094	0	0.29800E-06	653932.2	4182150.8	7.7	3.15	4.05	2.93	YES	
L0012095	0	0.29800E-06	653932.0	4182159.5	7.7	3.15	4.05	2.93	YES	
L0012096	0	0.29800E-06	653931.8	4182168.2	7.7	3.15	4.05	2.93	YES	
L0012097	0	0.29800E-06	653931.6	4182176.9	7.7	3.15	4.05	2.93	YES	
L0012098	0	0.29800E-06	653931.4	4182185.6	7.7	3.15	4.05	2.93	YES	
L0012099	0	0.29800E-06	653931.2	4182194.3	7.7	3.15	4.05	2.93	YES	
L0012100	0	0.29800E-06	653931.0	4182203.0	7.7	3.15	4.05	2.93	YES	
L0012101	0	0.29800E-06	653930.8	4182211.7	7.7	3.15	4.05	2.93	YES	
L0012102	0	0.29800E-06	653930.6	4182220.4	7.7	3.15	4.05	2.93	YES	
L0012103	0	0.29800E-06	653930.4	4182229.1	7.7	3.15	4.05	2.93	YES	
L0012104	0	0.29800E-06	653930.2	4182237.8	7.7	3.15	4.05	2.93	YES	

L0012105	0	0.29800E-06	653930.0	4182246.5	7.7	3.15	4.05	2.93 YES
L0012106	0	0.29800E-06	653929.8	4182255.2	7.7	3.15	4.05	2.93 YES
L0012107	0	0.29800E-06	653929.6	4182263.9	7.7	3.15	4.05	2.93 YES
L0012108	0	0.29800E-06	653929.4	4182272.6	7.7	3.15	4.05	2.93 YES
L0012109	0	0.29800E-06	653929.2	4182281.3	7.7	3.15	4.05	2.93 YES
L0012110	0	0.29800E-06	653929.0	4182290.0	7.7	3.15	4.05	2.93 YES
L0012111	0	0.29800E-06	653928.8	4182298.7	7.7	3.15	4.05	2.93 YES
L0012112	0	0.29800E-06	653928.6	4182307.4	7.7	3.15	4.05	2.93 YES
L0012113	0	0.29800E-06	653928.4	4182316.1	7.7	3.15	4.05	2.93 YES
L0012114	0	0.29800E-06	653928.2	4182324.8	7.7	3.15	4.05	2.93 YES
L0012115	0	0.29800E-06	653928.0	4182333.5	7.7	3.15	4.05	2.93 YES
L0012116	0	0.29800E-06	653927.8	4182342.2	7.7	3.15	4.05	2.93 YES
L0012117	0	0.29800E-06	653927.6	4182350.9	7.7	3.15	4.05	2.93 YES
L0012118	0	0.15760E-06	653927.3	4182360.7	7.6	3.15	4.05	2.93 YES
L0012119	0	0.15760E-06	653927.1	4182369.4	7.6	3.15	4.05	2.93 YES
L0012120	0	0.15760E-06	653926.8	4182378.1	7.6	3.15	4.05	2.93 YES
L0012121	0	0.15760E-06	653926.6	4182386.8	7.6	3.15	4.05	2.93 YES
L0012122	0	0.15760E-06	653926.4	4182395.5	7.6	3.15	4.05	2.93 YES
L0012123	0	0.15760E-06	653926.2	4182404.2	7.6	3.15	4.05	2.93 YES
L0012124	0	0.15760E-06	653926.0	4182412.9	7.6	3.15	4.05	2.93 YES
L0012125	0	0.15760E-06	653925.8	4182421.6	7.6	3.15	4.05	2.93 YES
L0012126	0	0.15760E-06	653925.8	4182430.3	7.6	3.15	4.05	2.93 YES
L0012127	0	0.15760E-06	653925.8	4182439.0	7.6	3.15	4.05	2.93 YES
L0012128	0	0.15760E-06	653925.8	4182447.7	7.5	3.15	4.05	2.93 YES
L0012129	0	0.15760E-06	653925.8	4182456.4	7.5	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012130	0	0.15760E-06	653925.8	4182465.1	7.5	3.15	4.05	2.93	YES	
L0012131	0	0.15760E-06	653925.7	4182473.8	7.5	3.15	4.05	2.93	YES	
L0012132	0	0.15760E-06	653925.7	4182482.5	7.5	3.15	4.05	2.93	YES	
L0012133	0	0.15760E-06	653925.6	4182491.2	7.5	3.15	4.05	2.93	YES	
L0012134	0	0.15760E-06	653925.4	4182499.9	7.5	3.15	4.05	2.93	YES	
L0012135	0	0.15760E-06	653925.2	4182508.6	7.5	3.15	4.05	2.93	YES	
L0012136	0	0.15760E-06	653925.0	4182517.3	7.5	3.15	4.05	2.93	YES	
L0012137	0	0.15760E-06	653924.8	4182526.0	7.4	3.15	4.05	2.93	YES	
L0012138	0	0.15760E-06	653924.6	4182534.7	7.4	3.15	4.05	2.93	YES	
L0012139	0	0.15760E-06	653924.5	4182543.4	7.4	3.15	4.05	2.93	YES	
L0012140	0	0.15760E-06	653924.4	4182552.1	7.4	3.15	4.05	2.93	YES	
L0012141	0	0.15760E-06	653924.3	4182560.8	7.4	3.15	4.05	2.93	YES	
L0012142	0	0.15760E-06	653924.2	4182569.5	7.4	3.15	4.05	2.93	YES	
L0012143	0	0.15760E-06	653924.1	4182578.2	7.4	3.15	4.05	2.93	YES	
L0012144	0	0.15760E-06	653924.0	4182586.9	7.4	3.15	4.05	2.93	YES	

L0012145	0	0.15760E-06	653923.9	4182595.6	7.3	3.15	4.05	2.93 YES
L0012146	0	0.15760E-06	653923.8	4182604.3	7.3	3.15	4.05	2.93 YES
L0012147	0	0.15760E-06	653923.7	4182613.0	7.3	3.15	4.05	2.93 YES
L0012148	0	0.15760E-06	653923.6	4182621.7	7.3	3.15	4.05	2.93 YES
L0012149	0	0.15760E-06	653923.4	4182630.4	7.3	3.15	4.05	2.93 YES
L0012150	0	0.15760E-06	653923.3	4182639.1	7.3	3.15	4.05	2.93 YES
L0012151	0	0.15760E-06	653923.2	4182647.8	7.3	3.15	4.05	2.93 YES
L0012152	0	0.15760E-06	653923.1	4182656.5	7.3	3.15	4.05	2.93 YES
L0012153	0	0.15760E-06	653922.9	4182665.2	7.3	3.15	4.05	2.93 YES
L0012154	0	0.15760E-06	653922.8	4182673.9	7.3	3.15	4.05	2.93 YES
L0012155	0	0.15760E-06	653922.7	4182682.6	7.3	3.15	4.05	2.93 YES
L0012156	0	0.15760E-06	653922.5	4182691.3	7.3	3.15	4.05	2.93 YES
L0012157	0	0.15760E-06	653922.4	4182700.0	7.3	3.15	4.05	2.93 YES
L0012158	0	0.15760E-06	653922.5	4182708.7	7.3	3.15	4.05	2.93 YES
L0012159	0	0.15760E-06	653922.5	4182717.4	7.3	3.15	4.05	2.93 YES
L0012160	0	0.15760E-06	653922.5	4182726.1	7.3	3.15	4.05	2.93 YES
L0012161	0	0.15760E-06	653922.6	4182734.8	7.3	3.15	4.05	2.93 YES
L0012162	0	0.15760E-06	653921.4	4182743.4	7.3	3.15	4.05	2.93 YES
L0012163	0	0.15760E-06	653920.1	4182752.0	7.3	3.15	4.05	2.93 YES
L0012164	0	0.33720E-08	653552.1	4183021.0	7.4	3.15	4.05	2.93 YES
L0012165	0	0.33720E-08	653557.2	4183028.1	7.4	3.15	4.05	2.93 YES
L0012166	0	0.33720E-08	653562.3	4183035.1	7.4	3.15	4.05	2.93 YES
L0012167	0	0.33720E-08	653567.1	4183042.4	7.4	3.15	4.05	2.93 YES
L0012168	0	0.33720E-08	653571.8	4183049.8	7.5	3.15	4.05	2.93 YES
L0012169	0	0.33720E-08	653576.4	4183057.1	7.5	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012170	0	0.33720E-08	653581.0	4183064.5	7.5	3.15	4.05	2.93	YES	
L0012171	0	0.33720E-08	653585.5	4183072.0	7.5	3.15	4.05	2.93	YES	
L0012172	0	0.33720E-08	653589.5	4183079.7	7.5	3.15	4.05	2.93	YES	
L0012173	0	0.33720E-08	653593.5	4183087.4	7.6	3.15	4.05	2.93	YES	
L0012174	0	0.33720E-08	653599.0	4183094.0	7.6	3.15	4.05	2.93	YES	
L0012175	0	0.33720E-08	653605.7	4183099.6	7.6	3.15	4.05	2.93	YES	
L0012176	0	0.33720E-08	653614.4	4183100.2	7.6	3.15	4.05	2.93	YES	
L0012177	0	0.33720E-08	653623.0	4183100.0	7.7	3.15	4.05	2.93	YES	
L0012178	0	0.33720E-08	653631.2	4183097.3	7.7	3.15	4.05	2.93	YES	
L0012179	0	0.33720E-08	653639.5	4183094.6	7.7	3.15	4.05	2.93	YES	
L0012180	0	0.33720E-08	653647.6	4183091.5	7.7	3.15	4.05	2.93	YES	
L0012181	0	0.33720E-08	653655.1	4183087.1	7.7	3.15	4.05	2.93	YES	
L0012182	0	0.33720E-08	653662.6	4183082.7	7.7	3.15	4.05	2.93	YES	
L0012183	0	0.33720E-08	653670.1	4183078.3	7.7	3.15	4.05	2.93	YES	
L0012184	0	0.33720E-08	653677.6	4183073.8	7.7	3.15	4.05	2.93	YES	

L0012185	0	0.33720E-08	653685.2	4183069.4	7.7	3.15	4.05	2.93 YES
L0012186	0	0.33720E-08	653692.7	4183065.1	7.7	3.15	4.05	2.93 YES
L0012187	0	0.33720E-08	653700.2	4183060.7	7.7	3.15	4.05	2.93 YES
L0012188	0	0.33720E-08	653707.8	4183056.3	7.7	3.15	4.05	2.93 YES
L0012189	0	0.33720E-08	653707.1	4183048.0	7.6	3.15	4.05	2.93 YES
L0012190	0	0.33720E-08	653704.0	4183040.0	7.6	3.15	4.05	2.93 YES
L0012191	0	0.33720E-08	653699.5	4183032.5	7.6	3.15	4.05	2.93 YES
L0012192	0	0.33720E-08	653695.2	4183025.0	7.5	3.15	4.05	2.93 YES
L0012193	0	0.33720E-08	653690.9	4183017.4	7.5	3.15	4.05	2.93 YES
L0012194	0	0.33720E-08	653686.6	4183009.8	7.5	3.15	4.05	2.93 YES
L0012195	0	0.33720E-08	653682.4	4183002.2	7.5	3.15	4.05	2.93 YES
L0012196	0	0.33720E-08	653678.1	4182994.6	7.4	3.15	4.05	2.93 YES
L0012197	0	0.33720E-08	653673.9	4182987.0	7.4	3.15	4.05	2.93 YES
L0012198	0	0.33720E-08	653669.6	4182979.4	7.3	3.15	4.05	2.93 YES
L0012199	0	0.33720E-08	653665.4	4182971.8	7.3	3.15	4.05	2.93 YES
L0012200	0	0.33720E-08	653661.1	4182964.2	7.3	3.15	4.05	2.93 YES
L0012201	0	0.33720E-08	653655.2	4182958.0	7.2	3.15	4.05	2.93 YES
L0012202	0	0.33720E-08	653648.2	4182952.9	7.2	3.15	4.05	2.93 YES
L0012203	0	0.33720E-08	653641.1	4182947.8	7.2	3.15	4.05	2.93 YES
L0012204	0	0.33720E-08	653634.1	4182942.7	7.1	3.15	4.05	2.93 YES
L0012205	0	0.33720E-08	653627.2	4182937.3	7.1	3.15	4.05	2.93 YES
L0012206	0	0.33720E-08	653620.3	4182932.0	7.1	3.15	4.05	2.93 YES
L0012207	0	0.18360E-06	653716.0	4182828.5	7.0	3.15	4.05	2.93 YES
L0012208	0	0.18360E-06	653720.8	4182835.8	7.0	3.15	4.05	2.93 YES
L0012209	0	0.18360E-06	653725.1	4182843.3	7.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012210	0	0.18360E-06	653729.5	4182850.8	7.0	3.15	4.05	2.93	YES	
L0012211	0	0.18360E-06	653734.0	4182858.3	7.1	3.15	4.05	2.93	YES	
L0012212	0	0.18360E-06	653739.4	4182865.2	7.1	3.15	4.05	2.93	YES	
L0012213	0	0.18360E-06	653745.0	4182871.8	7.1	3.15	4.05	2.93	YES	
L0012214	0	0.18360E-06	653750.7	4182878.4	7.1	3.15	4.05	2.93	YES	
L0012215	0	0.18360E-06	653757.6	4182883.6	7.2	3.15	4.05	2.93	YES	
L0012216	0	0.18360E-06	653766.0	4182883.3	7.2	3.15	4.05	2.93	YES	
L0012217	0	0.18360E-06	653773.1	4182878.9	7.2	3.15	4.05	2.93	YES	
L0012218	0	0.18360E-06	653777.5	4182871.5	7.2	3.15	4.05	2.93	YES	
L0012219	0	0.18360E-06	653778.9	4182863.0	7.2	3.15	4.05	2.93	YES	
L0012220	0	0.18360E-06	653778.9	4182854.3	7.1	3.15	4.05	2.93	YES	
L0012221	0	0.18360E-06	653779.1	4182845.6	7.1	3.15	4.05	2.93	YES	
L0012222	0	0.18360E-06	653779.3	4182836.9	7.1	3.15	4.05	2.93	YES	
L0012223	0	0.18360E-06	653780.8	4182828.3	7.1	3.15	4.05	2.93	YES	
L0012224	0	0.18360E-06	653782.8	4182819.9	7.0	3.15	4.05	2.93	YES	

L0012225	0	0.18360E-06	653783.8	4182811.3	7.0	3.15	4.05	2.93 YES
L0012226	0	0.18360E-06	653782.4	4182802.8	7.0	3.15	4.05	2.93 YES
L0012227	0	0.18360E-06	653780.1	4182794.4	7.0	3.15	4.05	2.93 YES
L0012228	0	0.18360E-06	653777.4	4182786.1	6.9	3.15	4.05	2.93 YES
L0012229	0	0.59500E-06	654306.2	4183242.5	8.4	3.15	4.05	2.93 YES
L0012230	0	0.59500E-06	654314.9	4183241.6	8.4	3.15	4.05	2.93 YES
L0012231	0	0.59500E-06	654323.6	4183240.7	8.4	3.15	4.05	2.93 YES
L0012232	0	0.59500E-06	654332.2	4183239.7	8.4	3.15	4.05	2.93 YES
L0012233	0	0.59500E-06	654340.9	4183238.8	8.4	3.15	4.05	2.93 YES
L0012234	0	0.59500E-06	654349.5	4183237.9	8.4	3.15	4.05	2.93 YES
L0012235	0	0.59500E-06	654358.2	4183237.3	8.4	3.15	4.05	2.93 YES
L0012236	0	0.59500E-06	654366.9	4183237.1	8.4	3.15	4.05	2.93 YES
L0012237	0	0.59500E-06	654375.6	4183237.0	8.4	3.15	4.05	2.93 YES
L0012238	0	0.59500E-06	654384.3	4183236.8	8.4	3.15	4.05	2.93 YES
L0012239	0	0.59500E-06	654393.0	4183236.7	8.4	3.15	4.05	2.93 YES
L0012240	0	0.59500E-06	654401.8	4183236.6	8.4	3.15	4.05	2.93 YES
L0012241	0	0.59500E-06	654410.5	4183236.4	8.4	3.15	4.05	2.93 YES
L0012242	0	0.59500E-06	654419.2	4183236.3	8.4	3.15	4.05	2.93 YES
L0012243	0	0.59500E-06	654427.9	4183236.2	8.4	3.15	4.05	2.93 YES
L0012244	0	0.59500E-06	654436.6	4183236.0	8.4	3.15	4.05	2.93 YES
L0012245	0	0.59500E-06	654445.3	4183235.9	8.4	3.15	4.05	2.93 YES
L0012246	0	0.59500E-06	654454.0	4183235.7	8.4	3.15	4.05	2.93 YES
L0012247	0	0.59500E-06	654462.7	4183235.6	8.4	3.15	4.05	2.93 YES
L0012248	0	0.59500E-06	654471.4	4183235.5	8.4	3.15	4.05	2.93 YES
L0012249	0	0.59500E-06	654480.1	4183235.4	8.4	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012252	0	0.59500E-06	654506.3	4183235.5	8.4	3.15	4.05	2.93	YES	
L0012253	0	0.59500E-06	654515.0	4183235.5	8.4	3.15	4.05	2.93	YES	
L0012254	0	0.59500E-06	654523.7	4183235.6	8.4	3.15	4.05	2.93	YES	
L0012255	0	0.59500E-06	654532.4	4183235.6	8.4	3.15	4.05	2.93	YES	
L0012256	0	0.59500E-06	654541.1	4183235.6	8.4	3.15	4.05	2.93	YES	
L0012257	0	0.59500E-06	654549.8	4183235.7	8.4	3.15	4.05	2.93	YES	
L0012258	0	0.59500E-06	654558.5	4183235.7	8.4	3.15	4.05	2.93	YES	
L0012259	0	0.59500E-06	654567.2	4183235.7	8.4	3.15	4.05	2.93	YES	
L0012260	0	0.59500E-06	654575.9	4183235.7	8.4	3.15	4.05	2.93	YES	
L0012261	0	0.59500E-06	654584.7	4183235.8	8.4	3.15	4.05	2.93	YES	
L0012262	0	0.59500E-06	654593.4	4183235.8	8.4	3.15	4.05	2.93	YES	
L0012263	0	0.59500E-06	654602.1	4183235.8	8.4	3.15	4.05	2.93	YES	
L0012264	0	0.59500E-06	654610.8	4183235.9	8.4	3.15	4.05	2.93	YES	

L0012265	0	0.59500E-06	654619.5	4183235.9	8.4	3.15	4.05	2.93	YES
L0012266	0	0.59500E-06	654628.2	4183236.0	8.4	3.15	4.05	2.93	YES
L0012267	0	0.59500E-06	654636.9	4183236.3	8.4	3.15	4.05	2.93	YES
L0012268	0	0.59500E-06	654645.6	4183236.5	8.4	3.15	4.05	2.93	YES
L0012269	0	0.59500E-06	654654.3	4183236.7	8.4	3.15	4.05	2.93	YES
L0012270	0	0.59500E-06	654663.0	4183236.9	8.4	3.15	4.05	2.93	YES
L0012271	0	0.59500E-06	654671.7	4183237.1	8.4	3.15	4.05	2.93	YES
L0012272	0	0.59500E-06	654680.4	4183237.4	8.4	3.15	4.05	2.93	YES
L0012273	0	0.59500E-06	654689.2	4183237.6	8.4	3.15	4.05	2.93	YES
L0012274	0	0.59500E-06	654697.9	4183237.8	8.4	3.15	4.05	2.93	YES
L0012275	0	0.59500E-06	654706.6	4183238.0	8.4	3.15	4.05	2.93	YES
L0012276	0	0.59500E-06	654715.3	4183238.2	8.4	3.15	4.05	2.93	YES
L0012277	0	0.59500E-06	654724.0	4183238.5	8.4	3.15	4.05	2.93	YES
L0012278	0	0.59500E-06	654732.7	4183238.7	8.4	3.15	4.05	2.93	YES
L0012279	0	0.59500E-06	654741.4	4183238.9	8.5	3.15	4.05	2.93	YES
L0012280	0	0.59500E-06	654750.1	4183239.1	8.5	3.15	4.05	2.93	YES
L0012281	0	0.59500E-06	654758.8	4183239.3	8.5	3.15	4.05	2.93	YES
L0012282	0	0.59500E-06	654767.5	4183239.6	8.5	3.15	4.05	2.93	YES
L0012283	0	0.59500E-06	654776.2	4183239.8	8.5	3.15	4.05	2.93	YES
L0012284	0	0.59500E-06	654784.9	4183240.0	8.5	3.15	4.05	2.93	YES
L0012285	0	0.59500E-06	654793.6	4183240.2	8.5	3.15	4.05	2.93	YES
L0012286	0	0.59500E-06	654802.4	4183240.4	8.5	3.15	4.05	2.93	YES
L0012287	0	0.59500E-06	654811.1	4183240.7	8.5	3.15	4.05	2.93	YES
L0012288	0	0.59500E-06	654819.8	4183240.9	8.5	3.15	4.05	2.93	YES
L0012289	0	0.59500E-06	654828.5	4183241.1	8.5	3.15	4.05	2.93	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012290	0	0.59500E-06	654837.2	4183241.3	8.5	3.15	4.05	2.93	YES	
L0012291	0	0.59500E-06	654845.9	4183241.5	8.5	3.15	4.05	2.93	YES	
L0012292	0	0.59500E-06	654854.6	4183241.8	8.5	3.15	4.05	2.93	YES	
L0012293	0	0.59500E-06	654863.3	4183242.0	8.5	3.15	4.05	2.93	YES	
L0012294	0	0.59500E-06	654872.0	4183242.2	8.5	3.15	4.05	2.93	YES	
L0012295	0	0.59500E-06	654880.7	4183242.4	8.5	3.15	4.05	2.93	YES	
L0012296	0	0.59500E-06	654889.4	4183242.6	8.5	3.15	4.05	2.93	YES	
L0012297	0	0.59500E-06	654898.1	4183242.9	8.5	3.15	4.05	2.93	YES	
L0012298	0	0.59500E-06	654906.8	4183243.1	8.5	3.15	4.05	2.93	YES	
L0012299	0	0.59500E-06	654915.5	4183243.3	8.5	3.15	4.05	2.93	YES	
L0012300	0	0.59500E-06	654924.3	4183243.5	8.5	3.15	4.05	2.93	YES	
L0012301	0	0.59500E-06	654933.0	4183243.8	8.5	3.15	4.05	2.93	YES	
L0012302	0	0.59500E-06	654941.7	4183244.0	8.5	3.15	4.05	2.93	YES	
L0012303	0	0.59500E-06	654950.4	4183244.2	8.5	3.15	4.05	2.93	YES	
L0012304	0	0.59500E-06	654959.1	4183244.3	8.5	3.15	4.05	2.93	YES	

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 L0012305         0   0.59500E-06  654967.8 4183244.4     8.5     3.15     4.05
2.93     YES
 L0012306         0   0.59500E-06  654976.5 4183244.5     8.5     3.15     4.05
2.93     YES
 L0012307         0   0.59500E-06  654985.2 4183244.6     8.6     3.15     4.05
2.93     YES
 L0012308         0   0.59500E-06  654993.9 4183244.8     8.6     3.15     4.05
2.93     YES
 L0012309         0   0.59500E-06  655002.6 4183244.9     8.6     3.15     4.05
2.93     YES
 L0012310         0   0.59500E-06  655011.3 4183245.0     8.6     3.15     4.05
2.93     YES
 L0012311         0   0.59500E-06  655020.0 4183245.1     8.6     3.15     4.05
2.93     YES
 L0012312         0   0.59500E-06  655028.8 4183245.2     8.6     3.15     4.05
2.93     YES
 L0012313         0   0.59500E-06  655037.5 4183245.3     8.6     3.15     4.05
2.93     YES
 L0012314         0   0.59500E-06  655046.2 4183245.4     8.6     3.15     4.05
2.93     YES
 L0012315         0   0.59500E-06  655054.9 4183245.5     8.6     3.15     4.05
2.93     YES
 L0012316         0   0.59500E-06  655063.6 4183245.6     8.6     3.15     4.05
2.93     YES
 L0012317         0   0.59500E-06  655072.3 4183245.7     8.6     3.15     4.05
2.93     YES
 L0012318         0   0.59500E-06  655081.0 4183245.9     8.6     3.15     4.05
2.93     YES
 L0012319         0   0.59500E-06  655089.7 4183246.0     8.6     3.15     4.05
2.93     YES
 L0012320         0   0.59500E-06  655098.4 4183246.1     8.6     3.15     4.05
2.93     YES
 L0012321         0   0.59500E-06  655107.1 4183246.2     8.6     3.15     4.05
2.93     YES
 L0012322         0   0.59500E-06  655115.8 4183246.3     8.6     3.15     4.05
2.93     YES
 L0012323         0   0.59500E-06  655124.6 4183246.6     8.6     3.15     4.05
2.93     YES
 L0012324         0   0.59500E-06  655133.3 4183246.8     8.6     3.15     4.05
2.93     YES
 L0012325         0   0.59500E-06  655142.0 4183247.0     8.6     3.15     4.05
2.93     YES
 L0012326         0   0.59500E-06  655150.7 4183247.2     8.6     3.15     4.05
2.93     YES
 L0012327         0   0.59500E-06  655159.4 4183247.4     8.6     3.15     4.05
2.93     YES
 L0012328         0   0.59500E-06  655168.1 4183247.6     8.6     3.15     4.05
2.93     YES
 L0012329         0   0.59500E-06  655176.8 4183247.9     8.6     3.15     4.05
2.93     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0012332	0	0.59500E-06	655202.9	4183248.5	8.7	3.15	4.05	2.93	YES	
L0012333	0	0.59500E-06	655211.6	4183248.7	8.7	3.15	4.05	2.93	YES	
L0012334	0	0.59500E-06	655220.3	4183248.9	8.7	3.15	4.05	2.93	YES	
L0012335	0	0.59500E-06	655229.0	4183249.2	8.7	3.15	4.05	2.93	YES	
L0012336	0	0.59500E-06	655237.8	4183249.4	8.7	3.15	4.05	2.93	YES	
L0012337	0	0.59500E-06	655246.5	4183249.6	8.7	3.15	4.05	2.93	YES	
L0012338	0	0.59500E-06	655255.2	4183249.8	8.7	3.15	4.05	2.93	YES	
L0012339	0	0.59500E-06	655263.9	4183250.0	8.7	3.15	4.05	2.93	YES	
L0012340	0	0.59500E-06	655272.6	4183250.2	8.7	3.15	4.05	2.93	YES	
L0012341	0	0.59500E-06	655281.3	4183250.5	8.7	3.15	4.05	2.93	YES	
L0012342	0	0.59500E-06	655290.0	4183250.7	8.8	3.15	4.05	2.93	YES	
L0012343	0	0.59500E-06	655298.7	4183250.9	8.8	3.15	4.05	2.93	YES	
L0012344	0	0.59500E-06	655307.4	4183251.1	8.8	3.15	4.05	2.93	YES	

L0012345	0	0.59500E-06	655316.1	4183251.3	8.8	3.15	4.05	2.93 YES
L0012346	0	0.59500E-06	655324.8	4183251.5	8.8	3.15	4.05	2.93 YES
L0012347	0	0.59500E-06	655333.5	4183251.8	8.8	3.15	4.05	2.93 YES
L0012348	0	0.59500E-06	655342.2	4183252.0	8.8	3.15	4.05	2.93 YES
L0012349	0	0.59500E-06	655350.9	4183252.2	8.8	3.15	4.05	2.93 YES
L0012350	0	0.59500E-06	655359.7	4183252.4	8.8	3.15	4.05	2.93 YES
L0012351	0	0.59500E-06	655368.4	4183252.6	8.8	3.15	4.05	2.93 YES
L0012352	0	0.59500E-06	655377.1	4183252.8	8.8	3.15	4.05	2.93 YES
L0012353	0	0.59500E-06	655385.8	4183253.1	8.8	3.15	4.05	2.93 YES
L0012354	0	0.59500E-06	655394.5	4183253.3	8.8	3.15	4.05	2.93 YES
L0012355	0	0.59500E-06	655403.2	4183253.5	8.8	3.15	4.05	2.93 YES
L0012356	0	0.59500E-06	655411.9	4183253.7	8.8	3.15	4.05	2.93 YES
L0012357	0	0.59500E-06	655420.6	4183253.9	8.8	3.15	4.05	2.93 YES
L0012358	0	0.59500E-06	655429.3	4183254.1	8.8	3.15	4.05	2.93 YES
L0012359	0	0.59500E-06	655438.0	4183254.4	8.8	3.15	4.05	2.93 YES
L0012360	0	0.59500E-06	655446.7	4183254.6	8.8	3.15	4.05	2.93 YES
L0012361	0	0.59500E-06	655455.4	4183254.8	8.8	3.15	4.05	2.93 YES
L0012362	0	0.59500E-06	655464.1	4183255.0	8.8	3.15	4.05	2.93 YES
L0012363	0	0.59500E-06	655472.8	4183255.3	8.8	3.15	4.05	2.93 YES
L0012364	0	0.59500E-06	655481.6	4183255.5	8.8	3.15	4.05	2.93 YES
L0012365	0	0.59500E-06	655490.3	4183255.8	8.8	3.15	4.05	2.93 YES
L0012366	0	0.59500E-06	655499.0	4183256.0	8.8	3.15	4.05	2.93 YES
L0012367	0	0.59500E-06	655507.7	4183256.2	8.8	3.15	4.05	2.93 YES
L0012368	0	0.59500E-06	655516.4	4183256.5	8.9	3.15	4.05	2.93 YES
L0012369	0	0.59500E-06	655525.1	4183256.7	8.9	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012370	0	0.59500E-06	655533.8	4183257.0	8.9	3.15	4.05	2.93	YES	
L0012371	0	0.59500E-06	655542.5	4183257.2	9.0	3.15	4.05	2.93	YES	
L0012372	0	0.59500E-06	655551.2	4183257.4	9.1	3.15	4.05	2.93	YES	
L0012373	0	0.59500E-06	655559.9	4183257.7	9.1	3.15	4.05	2.93	YES	
L0012374	0	0.59500E-06	655568.6	4183257.9	9.2	3.15	4.05	2.93	YES	
L0012375	0	0.59500E-06	655577.3	4183258.2	9.2	3.15	4.05	2.93	YES	
L0012376	0	0.59500E-06	655586.0	4183258.4	9.2	3.15	4.05	2.93	YES	
L0012377	0	0.59500E-06	655594.7	4183258.7	9.3	3.15	4.05	2.93	YES	
L0012378	0	0.59500E-06	655603.4	4183258.9	9.3	3.15	4.05	2.93	YES	
L0012379	0	0.59500E-06	655612.2	4183259.1	9.3	3.15	4.05	2.93	YES	
L0012380	0	0.59500E-06	655620.9	4183259.4	9.3	3.15	4.05	2.93	YES	
L0012381	0	0.59500E-06	655629.6	4183259.6	9.4	3.15	4.05	2.93	YES	
L0012382	0	0.59500E-06	655638.3	4183259.9	9.4	3.15	4.05	2.93	YES	
L0012383	0	0.59500E-06	655647.0	4183260.1	9.4	3.15	4.05	2.93	YES	
L0012384	0	0.59500E-06	655655.7	4183260.3	9.4	3.15	4.05	2.93	YES	

L0012385	0	0.59500E-06	655664.4	4183260.6	9.4	3.15	4.05	2.93 YES
L0012386	0	0.59500E-06	655673.1	4183260.8	9.5	3.15	4.05	2.93 YES
L0012387	0	0.59500E-06	655681.8	4183261.1	9.5	3.15	4.05	2.93 YES
L0012388	0	0.59500E-06	655690.5	4183261.3	9.5	3.15	4.05	2.93 YES
L0012389	0	0.59500E-06	655699.2	4183261.5	9.5	3.15	4.05	2.93 YES
L0012390	0	0.59500E-06	655707.9	4183261.8	9.6	3.15	4.05	2.93 YES
L0012391	0	0.59500E-06	655716.6	4183262.0	9.6	3.15	4.05	2.93 YES
L0012392	0	0.59500E-06	655725.3	4183262.3	9.6	3.15	4.05	2.93 YES
L0012393	0	0.59500E-06	655734.0	4183262.5	9.6	3.15	4.05	2.93 YES
L0012394	0	0.59500E-06	655742.8	4183262.7	9.7	3.15	4.05	2.93 YES
L0012395	0	0.59500E-06	655751.5	4183263.0	9.7	3.15	4.05	2.93 YES
L0012396	0	0.59500E-06	655760.2	4183263.2	9.7	3.15	4.05	2.93 YES
L0012397	0	0.59500E-06	655768.9	4183263.5	9.7	3.15	4.05	2.93 YES
L0012398	0	0.59500E-06	655777.6	4183263.7	9.8	3.15	4.05	2.93 YES
L0012399	0	0.59500E-06	655786.3	4183263.9	9.8	3.15	4.05	2.93 YES
L0012400	0	0.59500E-06	655795.0	4183264.2	9.8	3.15	4.05	2.93 YES
L0012401	0	0.59500E-06	655803.7	4183264.4	9.8	3.15	4.05	2.93 YES
L0012402	0	0.59500E-06	655812.4	4183264.7	9.9	3.15	4.05	2.93 YES
L0012403	0	0.59500E-06	655821.1	4183264.9	9.9	3.15	4.05	2.93 YES
L0012404	0	0.59500E-06	655829.8	4183265.1	9.9	3.15	4.05	2.93 YES
L0012405	0	0.59500E-06	655838.5	4183265.4	9.9	3.15	4.05	2.93 YES
L0012406	0	0.59500E-06	655847.2	4183265.6	10.0	3.15	4.05	2.93 YES
L0012407	0	0.59500E-06	655855.9	4183265.9	10.0	3.15	4.05	2.93 YES
L0012408	0	0.59500E-06	655864.6	4183266.1	10.0	3.15	4.05	2.93 YES
L0012409	0	0.59500E-06	655873.4	4183266.3	10.0	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012410	0	0.59500E-06	655882.1	4183266.6	10.0	3.15	4.05	2.93	YES	
L0012411	0	0.59500E-06	655890.8	4183266.8	10.1	3.15	4.05	2.93	YES	
L0012412	0	0.59500E-06	655899.5	4183267.1	10.1	3.15	4.05	2.93	YES	
L0012413	0	0.59500E-06	655908.2	4183267.3	10.1	3.15	4.05	2.93	YES	
L0012414	0	0.59500E-06	655916.9	4183267.5	10.1	3.15	4.05	2.93	YES	
L0012415	0	0.59500E-06	655925.6	4183267.8	10.1	3.15	4.05	2.93	YES	
L0012416	0	0.59500E-06	655934.3	4183268.0	10.1	3.15	4.05	2.93	YES	
L0012417	0	0.59500E-06	655943.0	4183268.3	10.2	3.15	4.05	2.93	YES	
L0012418	0	0.59500E-06	655951.7	4183268.5	10.2	3.15	4.05	2.93	YES	
L0012419	0	0.59500E-06	655960.4	4183268.7	10.2	3.15	4.05	2.93	YES	
L0012420	0	0.59500E-06	655969.1	4183269.0	10.2	3.15	4.05	2.93	YES	
L0012421	0	0.59500E-06	655977.8	4183269.2	10.2	3.15	4.05	2.93	YES	
L0012422	0	0.59500E-06	655986.5	4183269.5	10.2	3.15	4.05	2.93	YES	
L0012423	0	0.59500E-06	655995.2	4183269.7	10.3	3.15	4.05	2.93	YES	
L0012424	0	0.59500E-06	656004.0	4183269.9	10.3	3.15	4.05	2.93	YES	

L0012425	0	0.59500E-06	656012.7	4183270.2	10.3	3.15	4.05	2.93 YES
L0012426	0	0.59500E-06	656021.4	4183270.4	10.3	3.15	4.05	2.93 YES
L0012427	0	0.59500E-06	656030.1	4183270.7	10.3	3.15	4.05	2.93 YES
L0012428	0	0.59500E-06	656038.8	4183270.9	10.3	3.15	4.05	2.93 YES
L0012429	0	0.27600E-06	654297.4	4183243.3	8.4	3.15	4.05	2.93 YES
L0012430	0	0.27600E-06	654288.8	4183244.1	8.4	3.15	4.05	2.93 YES
L0012431	0	0.27600E-06	654280.1	4183245.4	8.4	3.15	4.05	2.93 YES
L0012432	0	0.27600E-06	654271.6	4183247.0	8.4	3.15	4.05	2.93 YES
L0012433	0	0.27600E-06	654263.0	4183248.6	8.4	3.15	4.05	2.93 YES
L0012434	0	0.27600E-06	654254.5	4183250.2	8.4	3.15	4.05	2.93 YES
L0012435	0	0.27600E-06	654246.1	4183252.6	8.4	3.15	4.05	2.93 YES
L0012436	0	0.27600E-06	654237.8	4183255.3	8.4	3.15	4.05	2.93 YES
L0012437	0	0.27600E-06	654229.6	4183258.1	8.4	3.15	4.05	2.93 YES
L0012438	0	0.27600E-06	654221.3	4183260.8	8.4	3.15	4.05	2.93 YES
L0012439	0	0.27600E-06	654213.1	4183263.7	8.4	3.15	4.05	2.93 YES
L0012440	0	0.27600E-06	654205.1	4183267.2	8.4	3.15	4.05	2.93 YES
L0012441	0	0.27600E-06	654197.2	4183270.7	8.4	3.15	4.05	2.93 YES
L0012442	0	0.27600E-06	654189.4	4183274.6	8.4	3.15	4.05	2.93 YES
L0012443	0	0.27600E-06	654181.7	4183278.8	8.4	3.15	4.05	2.93 YES
L0012444	0	0.27600E-06	654174.0	4183282.9	8.4	3.15	4.05	2.93 YES
L0012445	0	0.27600E-06	654166.4	4183287.0	8.4	3.15	4.05	2.93 YES
L0012446	0	0.27600E-06	654158.7	4183291.1	8.4	3.15	4.05	2.93 YES
L0012447	0	0.27600E-06	654151.0	4183295.3	8.4	3.15	4.05	2.93 YES
L0012448	0	0.27600E-06	654143.4	4183299.4	8.4	3.15	4.05	2.93 YES
L0012449	0	0.27600E-06	654135.7	4183303.5	8.4	3.15	4.05	2.93 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012450	0	0.27600E-06	654128.0	4183307.7	8.4	3.15	4.05	2.93	YES	
L0012451	0	0.27600E-06	654120.5	4183312.1	8.4	3.15	4.05	2.93	YES	
L0012452	0	0.27600E-06	654113.1	4183316.6	8.4	3.15	4.05	2.93	YES	
L0012453	0	0.27600E-06	654105.7	4183321.2	8.4	3.15	4.05	2.93	YES	
L0012454	0	0.27600E-06	654098.2	4183325.7	8.4	3.15	4.05	2.93	YES	
L0012455	0	0.27600E-06	654090.7	4183330.0	8.4	3.15	4.05	2.93	YES	
L0012456	0	0.27600E-06	654083.1	4183334.3	8.4	3.15	4.05	2.93	YES	
L0012457	0	0.27600E-06	654075.5	4183338.6	8.4	3.15	4.05	2.93	YES	
L0012458	0	0.27600E-06	654067.9	4183342.9	8.4	3.15	4.05	2.93	YES	
L0012459	0	0.27600E-06	654060.4	4183347.2	8.4	3.15	4.05	2.93	YES	
L0012460	0	0.27600E-06	654052.8	4183351.5	8.4	3.15	4.05	2.93	YES	
L0012461	0	0.27600E-06	654045.2	4183355.8	8.4	3.15	4.05	2.93	YES	
L0012462	0	0.27600E-06	654037.6	4183360.1	8.4	3.15	4.05	2.93	YES	
L0012463	0	0.27600E-06	654030.0	4183364.4	8.4	3.15	4.05	2.93	YES	
L0012464	0	0.27600E-06	654022.5	4183368.7	8.4	3.15	4.05	2.93	YES	

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2.93     YES
 L0012467         0   0.27600E-06  653999.7 4183381.5     8.4     3.15     4.05
2.93     YES
 L0012468         0   0.27600E-06  653992.1 4183385.8     8.4     3.15     4.05
2.93     YES
 L0012469         0   0.27600E-06  653984.6 4183390.1     8.4     3.15     4.05
2.93     YES
 L0012470         0   0.27600E-06  653977.0 4183394.4     8.4     3.15     4.05
2.93     YES
 L0012471         0   0.27600E-06  653969.4 4183398.7     8.4     3.15     4.05
2.93     YES
 L0012472         0   0.27600E-06  653961.8 4183403.0     8.4     3.15     4.05
2.93     YES
 L0012473         0   0.27600E-06  653954.2 4183407.3     8.3     3.15     4.05
2.93     YES
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2.93     YES
 L0012475         0   0.27600E-06  653938.9 4183415.5     8.3     3.15     4.05
2.93     YES
 L0012476         0   0.27600E-06  653931.2 4183419.6     8.3     3.15     4.05
2.93     YES
 L0012477         0   0.27600E-06  653923.4 4183423.5     8.3     3.15     4.05
2.93     YES
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2.93     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        09:09:29

                                  PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0012140 , L0012141 , L0012142 , L0012143 , L0012144 , L0012145 , L0012146 , L0012147 ,
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	L0012156 , L0012157 , L0012158 , L0012159 , L0012160 , L0012161 , L0012162 , L0012163 ,
	L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 ,
	L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 ,
	L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 ,
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	L0012204 , L0012205 , L0012206 , L0012207 , L0012208 , L0012209 , L0012210 , L0012211 ,
	L0012212 , L0012213 , L0012214 , L0012215 , L0012216 , L0012217 , L0012218 , L0012219 ,
	L0012220 , L0012221 , L0012222 , L0012223 , L0012224 , L0012225 , L0012226 , L0012227 ,
	L0012228 , L0012229 , L0012230 , L0012231 , L0012232 ,

L0012233   , L0012234   , L0012235   ,

             L0012236   , L0012237   , L0012238   , L0012239   , L0012240   ,
L0012241   , L0012242   , L0012243   ,

             L0012244   , L0012245   , L0012246   , L0012247   , L0012248   ,
L0012249   , L0012250   , L0012251   ,

             L0012252   , L0012253   , L0012254   , L0012255   , L0012256   ,
L0012257   , L0012258   , L0012259   ,

             L0012260   , L0012261   , L0012262   , L0012263   , L0012264   ,
L0012265   , L0012266   , L0012267   ,

             L0012268   , L0012269   , L0012270   , L0012271   , L0012272   ,
L0012273   , L0012274   , L0012275   ,

             L0012276   , L0012277   , L0012278   , L0012279   , L0012280   ,
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             L0012284   , L0012285   , L0012286   , L0012287   , L0012288   ,
L0012289   , L0012290   , L0012291   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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L0012297   , L0012298   , L0012299   ,

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L0012305   , L0012306   , L0012307   ,

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             L0012316   , L0012317   , L0012318   , L0012319   , L0012320   ,
L0012321   , L0012322   , L0012323   ,

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             L0012348    , L0012349    , L0012350    , L0012351    , L0012352    ,
L0012353    , L0012354    , L0012355    ,

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             L0012372    , L0012373    , L0012374    , L0012375    , L0012376    ,
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L0012393    , L0012394    , L0012395    ,

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L0012401    , L0012402    , L0012403    ,

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L0012409    , L0012410    , L0012411    ,

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L0012417    , L0012418    , L0012419    ,

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L0012433    , L0012434    , L0012435    ,

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L0012441    , L0012442    , L0012443    ,

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L0012449    , L0012450    , L0012451    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0012460 , L0012461 , L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 ,
	L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 , L0012475 ,
	L0012476 , L0012477 , L0012478 , STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
	STCK6 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	762148.	L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 ,
		L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 ,
		L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 ,

L0011356 , L0011357 , L0011358 , L0011359 , L0011360 ,
L0011361 , L0011362 , L0011363 ,

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L0011369 , L0011370 , L0011371 ,

L0011372 , L0011373 , L0011374 , L0011375 , L0011376 ,
L0011377 , L0011378 , L0011379 ,

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L0011385 , L0011386 , L0011387 ,

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L0011393 , L0011394 , L0011395 ,

L0011396 , L0011397 , L0011398 , L0011399 , L0011400 ,
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L0011420 , L0011421 , L0011422 , L0011423 , L0011424 ,
L0011425 , L0011426 , L0011427 ,

L0011428 , L0011429 , L0011430 , L0011431 , L0011432 ,
L0011433 , L0011434 , L0011435 ,

L0011436 , L0011437 , L0011438 , L0011439 , L0011440 ,
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L0011444 , L0011445 , L0011446 , L0011447 , L0011448 ,
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L0011452 , L0011453 , L0011454 , L0011455 , L0011456 ,
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L0011468 , L0011469 , L0011470 , L0011471 , L0011472 ,
L0011473 , L0011474 , L0011475 ,

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L0011481 , L0011482 , L0011483 ,

L0011484 , L0011485 , L0011486 , L0011487 , L0011488 ,
L0011489 , L0011490 , L0011491 ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0011500 , L0011501 , L0011502 , L0011503 , L0011504 , L0011505 , L0011506 , L0011507 ,
		L0011508 , L0011509 , L0011510 , L0011511 , L0011512 , L0011513 , L0011514 , L0011515 ,
		L0011516 , L0011517 , L0011518 , L0011519 , L0011520 , L0011521 , L0011522 , L0011523 ,
		L0011524 , L0011525 , L0011526 , L0011527 , L0011528 , L0011529 , L0011530 , L0011531 ,
		L0011532 , L0011533 , L0011534 , L0011535 , L0011536 , L0011537 , L0011538 , L0011539 ,
		L0011540 , L0011541 , L0011542 , L0011543 , L0011544 , L0011545 , L0011546 , L0011547 ,
		L0011548 , L0011549 , L0011550 , L0011551 , L0011552 , L0011553 , L0011554 , L0011555 ,
		L0011556 , L0011557 , L0011558 , L0011559 , L0011560 , L0011561 , L0011562 , L0011563 ,
		L0011564 , L0011565 , L0011566 , L0011567 , L0011568 , L0011569 , L0011570 , L0011571 ,
		L0011572 , L0011573 , L0011574 , L0011575 , L0011576 , L0011577 , L0011578 , L0011579 ,
		L0011580 , L0011581 , L0011582 , L0011583 , L0011584 ,

L0011585   , L0011586   , L0011587   ,

             L0011588   , L0011589   , L0011590   , L0011591   , L0011592   ,
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             L0011604   , L0011605   , L0011606   , L0011607   , L0011608   ,
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             L0011612   , L0011613   , L0011614   , L0011615   , L0011616   ,
L0011617   , L0011618   , L0011619   ,

             L0011620   , L0011621   , L0011622   , L0011623   , L0011624   ,
L0011625   , L0011626   , L0011627   ,

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L0011633   , L0011634   , L0011635   ,

             L0011636   , L0011637   , L0011638   , L0011639   , L0011640   ,
L0011641   , L0011642   , L0011643   ,

             L0011644   , L0011645   , L0011646   , L0011647   , L0011648   ,
L0011649   , L0011650   , L0011651   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
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  URBAN ID   URBAN POP   SOURCE IDs
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             L0011652   , L0011653   , L0011654   , L0011655   , L0011656   ,
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             L0011660   , L0011661   , L0011662   , L0011663   , L0011664   ,
L0011665   , L0011666   , L0011667   ,

             L0011668   , L0011669   , L0011670   , L0011671   , L0011672   ,
L0011673   , L0011674   , L0011675   ,

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L0011692 , L0011693 , L0011694 , L0011695 , L0011696 ,
L0011697 , L0011698 , L0011699 ,

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L0011804 , L0011805 , L0011806 , L0011807 , L0011808 ,
L0011809 , L0011810 , L0011811 ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0011812 , L0011813 , L0011814 , L0011815 , L0011816 , L0011817 , L0011818 , L0011819 ,

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             L0011924   , L0011925   , L0011926   , L0011927   , L0011928   ,
L0011929   , L0011930   , L0011931   ,

             L0011932   , L0011933   , L0011934   , L0011935   , L0011936   ,
L0011937   , L0011938   , L0011939   ,

             L0011940   , L0011941   , L0011942   , L0011943   , L0011944   ,
L0011945   , L0011946   , L0011947   ,

             L0011948   , L0011949   , L0011950   , L0011951   , L0011952   ,
L0011953   , L0011954   , L0011955   ,

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L0011961   , L0011962   , L0011963   ,

             L0011964   , L0011965   , L0011966   , L0011967   , L0011968   ,
L0011969   , L0011970   , L0011971   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
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L0011985   , L0011986   , L0011987   ,

             L0011988   , L0011989   , L0011990   , L0011991   , L0011992   ,
L0011993   , L0011994   , L0011995   ,

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             L0012004    , L0012005    , L0012006    , L0012007    , L0012008    ,
L0012009    , L0012010    , L0012011    ,

             L0012012    , L0012013    , L0012014    , L0012015    , L0012016    ,
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L0012025    , L0012026    , L0012027    ,

             L0012028    , L0012029    , L0012030    , L0012031    , L0012032    ,
L0012033    , L0012034    , L0012035    ,

             L0012036    , L0012037    , L0012038    , L0012039    , L0012040    ,
L0012041    , L0012042    , L0012043    ,

             L0012044    , L0012045    , L0012046    , L0012047    , L0012048    ,
L0012049    , L0012050    , L0012051    ,

             L0012052    , L0012053    , L0012054    , L0012055    , L0012056    ,
L0012057    , L0012058    , L0012059    ,

             L0012060    , L0012061    , L0012062    , L0012063    , L0012064    ,
L0012065    , L0012066    , L0012067    ,

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L0012073    , L0012074    , L0012075    ,

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L0012081    , L0012082    , L0012083    ,

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L0012089    , L0012090    , L0012091    ,

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L0012097    , L0012098    , L0012099    ,

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L0012129    , L0012130    , L0012131    ,
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0012132 , L0012133 , L0012134 , L0012135 , L0012136 , L0012137 , L0012138 , L0012139 ,

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L0012233   , L0012234   , L0012235   ,

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L0012265   , L0012266   , L0012267   ,

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L0012273   , L0012274   , L0012275   ,

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             L0012284   , L0012285   , L0012286   , L0012287   , L0012288   ,
L0012289   , L0012290   , L0012291   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
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             L0012292   , L0012293   , L0012294   , L0012295   , L0012296   ,
L0012297   , L0012298   , L0012299   ,

             L0012300   , L0012301   , L0012302   , L0012303   , L0012304   ,
L0012305   , L0012306   , L0012307   ,

             L0012308   , L0012309   , L0012310   , L0012311   , L0012312   ,
L0012313   , L0012314   , L0012315   ,

L0012316 , L0012317 , L0012318 , L0012319 , L0012320 ,
L0012321 , L0012322 , L0012323 ,

L0012324 , L0012325 , L0012326 , L0012327 , L0012328 ,
L0012329 , L0012330 , L0012331 ,

L0012332 , L0012333 , L0012334 , L0012335 , L0012336 ,
L0012337 , L0012338 , L0012339 ,

L0012340 , L0012341 , L0012342 , L0012343 , L0012344 ,
L0012345 , L0012346 , L0012347 ,

L0012348 , L0012349 , L0012350 , L0012351 , L0012352 ,
L0012353 , L0012354 , L0012355 ,

L0012356 , L0012357 , L0012358 , L0012359 , L0012360 ,
L0012361 , L0012362 , L0012363 ,

L0012364 , L0012365 , L0012366 , L0012367 , L0012368 ,
L0012369 , L0012370 , L0012371 ,

L0012372 , L0012373 , L0012374 , L0012375 , L0012376 ,
L0012377 , L0012378 , L0012379 ,

L0012380 , L0012381 , L0012382 , L0012383 , L0012384 ,
L0012385 , L0012386 , L0012387 ,

L0012388 , L0012389 , L0012390 , L0012391 , L0012392 ,
L0012393 , L0012394 , L0012395 ,

L0012396 , L0012397 , L0012398 , L0012399 , L0012400 ,
L0012401 , L0012402 , L0012403 ,

L0012404 , L0012405 , L0012406 , L0012407 , L0012408 ,
L0012409 , L0012410 , L0012411 ,

L0012412 , L0012413 , L0012414 , L0012415 , L0012416 ,
L0012417 , L0012418 , L0012419 ,

L0012420 , L0012421 , L0012422 , L0012423 , L0012424 ,
L0012425 , L0012426 , L0012427 ,

L0012428 , L0012429 , L0012430 , L0012431 , L0012432 ,
L0012433 , L0012434 , L0012435 ,

L0012436 , L0012437 , L0012438 , L0012439 , L0012440 ,
L0012441 , L0012442 , L0012443 ,

L0012444 , L0012445 , L0012446 , L0012447 , L0012448 ,
L0012449 , L0012450 , L0012451 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0012452 , L0012453 , L0012454 , L0012455 , L0012456 , L0012457 , L0012458 , L0012459 ,

L0012460 , L0012461 , L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 ,

L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 , L0012475 ,

L0012476 , L0012477 , L0012478 , STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,

STCK6 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(653895.8, 4180773.4, 7.9, 7.9, 0.0); (653945.8, 4180773.4, 7.9, 7.9, 0.0);
(653895.8, 4180823.4, 7.8, 7.8, 0.0); (653945.8, 4180823.4, 7.9, 7.9, 0.0);
(653995.8, 4180823.4, 7.9, 7.9, 0.0); (654045.8, 4180823.4, 7.9, 7.9, 0.0);
(654195.8, 4180823.4, 8.0, 8.0, 0.0); (654245.8, 4180923.4, 8.1, 8.1, 0.0);
(654245.8, 4180973.4, 8.1, 8.1, 0.0); (653995.8,

```
4181023.4,       8.1,       8.1,       0.0);
     ( 653995.8, 4181073.4,       8.3,       8.3,       0.0);         ( 654045.8,
4181073.4,       8.3,       8.3,       0.0);
     ( 653895.8, 4181273.4,       8.4,       8.4,       0.0);         ( 653495.8,
4181323.4,       8.3,       8.3,       0.0);
     ( 653545.8, 4181323.4,       8.4,       8.4,       0.0);         ( 653895.8,
4181323.4,       9.1,       9.1,       0.0);
     ( 653495.8, 4181373.4,       9.1,       9.1,       0.0);         ( 653545.8,
4181373.4,       9.7,       9.7,       0.0);
     ( 653895.8, 4181373.4,       9.4,       9.4,       0.0);         ( 653995.8,
4181373.4,      10.0,      10.0,       0.0);
     ( 653895.8, 4181423.4,       9.3,       9.3,       0.0);         ( 653795.8,
4181473.4,       8.7,       8.7,       0.0);
     ( 653895.8, 4181473.4,       8.7,       8.7,       0.0);         ( 653895.8,
4181523.4,       8.3,       8.3,       0.0);
     ( 654195.8, 4181523.4,       9.8,       9.8,       0.0);         ( 653995.8,
4181673.4,       8.1,       8.1,       0.0);
     ( 653995.8, 4181723.4,       8.1,       8.1,       0.0);         ( 654145.8,
4181723.4,       8.3,       8.3,       0.0);
     ( 654245.8, 4181723.4,       8.6,       8.6,       0.0);         ( 653995.8,
4181773.4,       8.0,       8.0,       0.0);
     ( 653995.8, 4181823.4,       8.0,       8.0,       0.0);         ( 654045.8,
4181823.4,       8.0,       8.0,       0.0);
     ( 653945.8, 4182123.4,       7.7,       7.7,       0.0);         ( 653895.8,
4182223.4,       7.6,       7.6,       0.0);
     ( 654245.8, 4182323.4,       8.3,       8.3,       0.0);         ( 653145.8,
4182373.4,       5.9,       5.9,       0.0);
     ( 653195.8, 4182373.4,       5.7,       5.7,       0.0);         ( 653245.8,
4182373.4,       5.5,       5.5,       0.0);
     ( 653295.8, 4182373.4,       5.4,       5.4,       0.0);         ( 653345.8,
4182373.4,       5.4,       5.4,       0.0);
     ( 653395.8, 4182373.4,       5.4,       5.4,       0.0);         ( 653445.8,
4182373.4,       6.2,       6.2,       0.0);
     ( 653495.8, 4182373.4,       6.8,       6.8,       0.0);         ( 653545.8,
4182373.4,       7.0,       7.0,       0.0);
     ( 653595.8, 4182373.4,       7.0,       7.0,       0.0);         ( 653645.8,
4182373.4,       7.0,       7.0,       0.0);
     ( 653695.8, 4182373.4,       7.1,       7.1,       0.0);         ( 653745.8,
4182373.4,       7.1,       7.1,       0.0);
     ( 653795.8, 4182373.4,       7.2,       7.2,       0.0);         ( 653845.8,
4182373.4,       7.3,       7.3,       0.0);
     ( 653895.8, 4182373.4,       7.5,       7.5,       0.0);         ( 654245.8,
4182373.4,       8.4,       8.4,       0.0);
     ( 653145.8, 4182423.4,       5.4,       5.4,       0.0);         ( 653195.8,
4182423.4,       5.3,       5.3,       0.0);
     ( 653245.8, 4182423.4,       5.3,       5.3,       0.0);         ( 653295.8,
4182423.4,       5.3,       5.3,       0.0);
     ( 653345.8, 4182423.4,       5.3,       5.3,       0.0);         ( 653395.8,
4182423.4,       5.3,       5.3,       0.0);
     ( 653445.8, 4182423.4,       6.3,       6.3,       0.0);         ( 653495.8,
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4182423.4, 6.9, 6.9, 0.0);
     (653545.8, 4182423.4, 6.9, 6.9, 0.0); (653595.8,
4182423.4, 6.9, 6.9, 0.0);
     (653645.8, 4182423.4, 7.0, 7.0, 0.0); (653695.8,
4182423.4, 7.0, 7.0, 0.0);
     (653745.8, 4182423.4, 7.1, 7.1, 0.0); (653795.8,
4182423.4, 7.2, 7.2, 0.0);
     (653845.8, 4182423.4, 7.3, 7.3, 0.0); (653895.8,
4182423.4, 7.5, 7.5, 0.0);
     (654245.8, 4182423.4, 8.4, 8.4, 0.0); (653145.8,
4182473.4, 5.3, 5.3, 0.0);
     (653195.8, 4182473.4, 5.3, 5.3, 0.0); (653245.8,
4182473.4, 5.3, 5.3, 0.0);
     (653295.8, 4182473.4, 5.5, 5.5, 0.0); (653345.8,
4182473.4, 5.4, 5.4, 0.0);
     (653395.8, 4182473.4, 5.3, 5.3, 0.0); (653445.8,
4182473.4, 5.5, 5.5, 0.0);
     (653495.8, 4182473.4, 6.2, 6.2, 0.0); (653545.8,
4182473.4, 6.7, 6.7, 0.0);
     (653595.8, 4182473.4, 6.8, 6.8, 0.0); (653645.8,
4182473.4, 6.9, 6.9, 0.0);
     (653695.8, 4182473.4, 7.0, 7.0, 0.0); (653745.8,
4182473.4, 7.0, 7.0, 0.0);
     (653795.8, 4182473.4, 7.1, 7.1, 0.0); (653895.8,
4182473.4, 7.4, 7.4, 0.0);
     (654245.8, 4182473.4, 8.3, 8.3, 0.0); (653145.8,
4182523.4, 5.3, 5.3, 0.0);
     (653195.8, 4182523.4, 5.4, 5.4, 0.0); (653245.8,
4182523.4, 5.5, 5.5, 0.0);
     (653295.8, 4182523.4, 5.6, 5.6, 0.0); (653345.8,
4182523.4, 5.6, 5.6, 0.0);

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (653395.8, 4182523.4, 5.4, 5.4, 0.0); (653445.8,
4182523.4, 5.4, 5.4, 0.0);
     (653495.8, 4182523.4, 5.4, 5.4, 0.0); (653545.8,
4182523.4, 6.2, 6.2, 0.0);
     (653595.8, 4182523.4, 6.6, 6.6, 0.0); (653645.8,
4182523.4, 6.8, 6.8, 0.0);
     (653695.8, 4182523.4, 6.9, 6.9, 0.0); (653745.8,

```
4182523.4,       7.0,       7.0,       0.0);
     ( 653795.8, 4182523.4,       7.1,       7.1,       0.0);         ( 653895.8,
4182523.4,       7.3,       7.3,       0.0);
     ( 653945.8, 4182523.4,       7.5,       7.5,       0.0);         ( 654245.8,
4182523.4,       8.3,       8.3,       0.0);
     ( 653145.8, 4182573.4,       5.3,       5.3,       0.0);         ( 653195.8,
4182573.4,       5.4,       5.4,       0.0);
     ( 653245.8, 4182573.4,       5.5,       5.5,       0.0);         ( 653295.8,
4182573.4,       5.7,       5.7,       0.0);
     ( 653345.8, 4182573.4,       5.8,       5.8,       0.0);         ( 653395.8,
4182573.4,       5.8,       5.8,       0.0);
     ( 653445.8, 4182573.4,       5.7,       5.7,       0.0);         ( 653495.8,
4182573.4,       5.7,       5.7,       0.0);
     ( 653545.8, 4182573.4,       6.0,       6.0,       0.0);         ( 653595.8,
4182573.4,       6.5,       6.5,       0.0);
     ( 653645.8, 4182573.4,       6.7,       6.7,       0.0);         ( 653695.8,
4182573.4,       6.8,       6.8,       0.0);
     ( 653745.8, 4182573.4,       6.9,       6.9,       0.0);         ( 653795.8,
4182573.4,       7.0,       7.0,       0.0);
     ( 653895.8, 4182573.4,       7.3,       7.3,       0.0);         ( 653945.8,
4182573.4,       7.5,       7.5,       0.0);
     ( 653995.8, 4182573.4,       7.7,       7.7,       0.0);         ( 654045.8,
4182573.4,       7.9,       7.9,       0.0);
     ( 654095.8, 4182573.4,       8.0,       8.0,       0.0);         ( 654145.8,
4182573.4,       8.1,       8.1,       0.0);
     ( 654195.8, 4182573.4,       8.2,       8.2,       0.0);         ( 654245.8,
4182573.4,       8.2,       8.2,       0.0);
     ( 653145.8, 4182623.4,       5.4,       5.4,       0.0);         ( 653195.8,
4182623.4,       5.4,       5.4,       0.0);
     ( 653245.8, 4182623.4,       5.4,       5.4,       0.0);         ( 653295.8,
4182623.4,       5.7,       5.7,       0.0);
     ( 653345.8, 4182623.4,       6.0,       6.0,       0.0);         ( 653395.8,
4182623.4,       6.2,       6.2,       0.0);
     ( 653445.8, 4182623.4,       6.3,       6.3,       0.0);         ( 653495.8,
4182623.4,       6.2,       6.2,       0.0);
     ( 653545.8, 4182623.4,       6.2,       6.2,       0.0);         ( 653595.8,
4182623.4,       6.4,       6.4,       0.0);
     ( 653645.8, 4182623.4,       6.6,       6.6,       0.0);         ( 653695.8,
4182623.4,       6.8,       6.8,       0.0);
     ( 653745.8, 4182623.4,       6.9,       6.9,       0.0);         ( 653795.8,
4182623.4,       7.0,       7.0,       0.0);
     ( 653895.8, 4182623.4,       7.2,       7.2,       0.0);         ( 653945.8,
4182623.4,       7.4,       7.4,       0.0);
     ( 653995.8, 4182623.4,       7.6,       7.6,       0.0);         ( 654045.8,
4182623.4,       7.8,       7.8,       0.0);
     ( 654095.8, 4182623.4,       7.9,       7.9,       0.0);         ( 654145.8,
4182623.4,       8.0,       8.0,       0.0);
     ( 654195.8, 4182623.4,       8.1,       8.1,       0.0);         ( 654245.8,
4182623.4,       8.1,       8.1,       0.0);
     ( 653145.8, 4182673.4,       5.4,       5.4,       0.0);         ( 653195.8,
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4182673.4,   5.4,   5.4,   0.0);
     (653245.8, 4182673.4,   5.5,   5.5,   0.0);   (653295.8,
4182673.4,   5.9,   5.9,   0.0);
     (653345.8, 4182673.4,   6.2,   6.2,   0.0);   (653395.8,
4182673.4,   6.5,   6.5,   0.0);
     (653445.8, 4182673.4,   6.7,   6.7,   0.0);   (653495.8,
4182673.4,   6.7,   6.7,   0.0);
     (653545.8, 4182673.4,   6.5,   6.5,   0.0);   (653595.8,
4182673.4,   6.4,   6.4,   0.0);
     (653645.8, 4182673.4,   6.5,   6.5,   0.0);   (653695.8,
4182673.4,   6.7,   6.7,   0.0);
     (653745.8, 4182673.4,   6.8,   6.8,   0.0);   (653795.8,
4182673.4,   6.9,   6.9,   0.0);
     (653895.8, 4182673.4,   7.2,   7.2,   0.0);   (653945.8,
4182673.4,   7.4,   7.4,   0.0);
     (653995.8, 4182673.4,   7.6,   7.6,   0.0);   (654045.8,
4182673.4,   7.7,   7.7,   0.0);
     (654095.8, 4182673.4,   7.8,   7.8,   0.0);   (654145.8,
4182673.4,   7.9,   7.9,   0.0);
     (654195.8, 4182673.4,   8.0,   8.0,   0.0);   (654245.8,
4182673.4,   8.0,   8.0,   0.0);
     (653145.8, 4182723.4,   5.4,   5.4,   0.0);   (653195.8,
4182723.4,   5.4,   5.4,   0.0);
     (653245.8, 4182723.4,   5.5,   5.5,   0.0);   (653295.8,
4182723.4,   6.0,   6.0,   0.0);
     (653345.8, 4182723.4,   6.4,   6.4,   0.0);   (653395.8,
4182723.4,   6.7,   6.7,   0.0);
     (653445.8, 4182723.4,   6.8,   6.8,   0.0);   (653495.8,
4182723.4,   6.8,   6.8,   0.0);
     (653545.8, 4182723.4,   6.6,   6.6,   0.0);   (653595.8,
4182723.4,   6.5,   6.5,   0.0);
     (653645.8, 4182723.4,   6.6,   6.6,   0.0);   (653695.8,
4182723.4,   6.7,   6.7,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (653745.8, 4182723.4,   6.8,   6.8,   0.0);   (653795.8,
4182723.4,   6.8,   6.8,   0.0);
     (653945.8, 4182723.4,   7.4,   7.4,   0.0);   (653995.8,
4182723.4,   7.5,   7.5,   0.0);
     (654045.8, 4182723.4,   7.6,   7.6,   0.0);   (654095.8,

```
4182723.4,       7.7,       7.7,       0.0);
     ( 654145.8, 4182723.4,       7.8,       7.8,       0.0);         ( 654195.8,
4182723.4,       7.9,       7.9,       0.0);
     ( 654245.8, 4182723.4,       8.0,       8.0,       0.0);         ( 653145.8,
4182773.4,       5.4,       5.4,       0.0);
     ( 653195.8, 4182773.4,       5.4,       5.4,       0.0);         ( 653245.8,
4182773.4,       5.7,       5.7,       0.0);
     ( 653295.8, 4182773.4,       6.2,       6.2,       0.0);         ( 653345.8,
4182773.4,       6.5,       6.5,       0.0);
     ( 653395.8, 4182773.4,       6.8,       6.8,       0.0);         ( 653445.8,
4182773.4,       6.8,       6.8,       0.0);
     ( 653495.8, 4182773.4,       6.8,       6.8,       0.0);         ( 653545.8,
4182773.4,       6.7,       6.7,       0.0);
     ( 653595.8, 4182773.4,       6.6,       6.6,       0.0);         ( 653645.8,
4182773.4,       6.7,       6.7,       0.0);
     ( 653695.8, 4182773.4,       6.8,       6.8,       0.0);         ( 653745.8,
4182773.4,       6.8,       6.8,       0.0);
     ( 654095.8, 4182773.4,       7.7,       7.7,       0.0);         ( 654145.8,
4182773.4,       7.8,       7.8,       0.0);
     ( 654195.8, 4182773.4,       7.9,       7.9,       0.0);         ( 654245.8,
4182773.4,       7.9,       7.9,       0.0);
     ( 653145.8, 4182823.4,       5.7,       5.7,       0.0);         ( 653195.8,
4182823.4,       5.9,       5.9,       0.0);
     ( 653245.8, 4182823.4,       6.3,       6.3,       0.0);         ( 653295.8,
4182823.4,       6.5,       6.5,       0.0);
     ( 653345.8, 4182823.4,       6.7,       6.7,       0.0);         ( 653395.8,
4182823.4,       6.8,       6.8,       0.0);
     ( 653445.8, 4182823.4,       6.8,       6.8,       0.0);         ( 653495.8,
4182823.4,       6.8,       6.8,       0.0);
     ( 653545.8, 4182823.4,       6.8,       6.8,       0.0);         ( 653595.8,
4182823.4,       6.7,       6.7,       0.0);
     ( 653645.8, 4182823.4,       6.8,       6.8,       0.0);         ( 653695.8,
4182823.4,       6.9,       6.9,       0.0);
     ( 654145.8, 4182823.4,       7.8,       7.8,       0.0);         ( 654195.8,
4182823.4,       7.8,       7.8,       0.0);
     ( 654245.8, 4182823.4,       7.9,       7.9,       0.0);         ( 652795.8,
4182873.4,       6.0,       6.0,       0.0);
     ( 652845.8, 4182873.4,       6.0,       6.0,       0.0);         ( 652895.8,
4182873.4,       6.2,       6.2,       0.0);
     ( 652945.8, 4182873.4,       6.1,       6.1,       0.0);         ( 652995.8,
4182873.4,       6.2,       6.2,       0.0);
     ( 653045.8, 4182873.4,       6.2,       6.2,       0.0);         ( 653095.8,
4182873.4,       6.3,       6.3,       0.0);
     ( 653145.8, 4182873.4,       6.4,       6.4,       0.0);         ( 653195.8,
4182873.4,       6.5,       6.5,       0.0);
     ( 653245.8, 4182873.4,       6.7,       6.7,       0.0);         ( 653295.8,
4182873.4,       6.8,       6.8,       0.0);
     ( 653345.8, 4182873.4,       6.9,       6.9,       0.0);         ( 653395.8,
4182873.4,       6.9,       6.9,       0.0);
     ( 653445.8, 4182873.4,       7.0,       7.0,       0.0);         ( 653495.8,
```

4182873.4,   7.0,   7.0,   0.0);
     (653545.8, 4182873.4,   6.9,   6.9,   0.0);   (653595.8,
4182873.4,   6.8,   6.8,   0.0);
     (653645.8, 4182873.4,   6.9,   6.9,   0.0);   (654195.8,
4182873.4,   7.9,   7.9,   0.0);
     (654245.8, 4182873.4,   7.9,   7.9,   0.0);   (654295.8,
4182873.4,   8.0,   8.0,   0.0);
     (654645.8, 4182873.4,   8.4,   8.4,   0.0);   (654695.8,
4182873.4,   8.4,   8.4,   0.0);
     (654745.8, 4182873.4,   8.4,   8.4,   0.0);   (654795.8,
4182873.4,   8.5,   8.5,   0.0);
     (654845.8, 4182873.4,   8.5,   8.5,   0.0);   (654895.8,
4182873.4,   8.5,   8.5,   0.0);
     (654945.8, 4182873.4,   8.6,   8.6,   0.0);   (654995.8,
4182873.4,   8.7,   8.7,   0.0);
     (652795.8, 4182923.4,   6.1,   6.1,   0.0);   (652845.8,
4182923.4,   6.2,   6.2,   0.0);
     (652895.8, 4182923.4,   6.4,   6.4,   0.0);   (652945.8,
4182923.4,   6.2,   6.2,   0.0);
     (652995.8, 4182923.4,   6.5,   6.5,   0.0);   (653045.8,
4182923.4,   6.6,   6.6,   0.0);
     (653095.8, 4182923.4,   6.7,   6.7,   0.0);   (653145.8,
4182923.4,   6.8,   6.8,   0.0);
     (653195.8, 4182923.4,   6.8,   6.8,   0.0);   (653245.8,
4182923.4,   6.9,   6.9,   0.0);
     (653295.8, 4182923.4,   7.0,   7.0,   0.0);   (653345.8,
4182923.4,   7.0,   7.0,   0.0);
     (653395.8, 4182923.4,   7.1,   7.1,   0.0);   (653445.8,
4182923.4,   7.1,   7.1,   0.0);
     (653495.8, 4182923.4,   7.1,   7.1,   0.0);   (653545.8,
4182923.4,   7.1,   7.1,   0.0);
     (653595.8, 4182923.4,   7.1,   7.1,   0.0);   (654245.8,
4182923.4,   8.0,   8.0,   0.0);
     (654295.8, 4182923.4,   8.0,   8.0,   0.0);   (654345.8,
4182923.4,   8.1,   8.1,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (654395.8, 4182923.4,   8.2,   8.2,   0.0);   (654445.8,
4182923.4,   8.3,   8.3,   0.0);
     (654495.8, 4182923.4,   8.4,   8.4,   0.0);   (654545.8,

```
4182923.4,       8.4,       8.4,       0.0);
     ( 654595.8, 4182923.4,       8.4,       8.4,       0.0);         ( 654645.8,
4182923.4,       8.5,       8.5,       0.0);
     ( 654695.8, 4182923.4,       8.5,       8.5,       0.0);         ( 654745.8,
4182923.4,       8.5,       8.5,       0.0);
     ( 654795.8, 4182923.4,       8.5,       8.5,       0.0);         ( 654845.8,
4182923.4,       8.5,       8.5,       0.0);
     ( 654895.8, 4182923.4,       8.6,       8.6,       0.0);         ( 654945.8,
4182923.4,       8.7,       8.7,       0.0);
     ( 654995.8, 4182923.4,       8.8,       8.8,       0.0);         ( 655045.8,
4182923.4,       9.0,       9.0,       0.0);
     ( 655095.8, 4182923.4,       9.2,       9.2,       0.0);         ( 652795.8,
4182973.4,       5.8,       5.8,       0.0);
     ( 652845.8, 4182973.4,       6.2,       6.2,       0.0);         ( 652895.8,
4182973.4,       6.5,       6.5,       0.0);
     ( 652945.8, 4182973.4,       6.5,       6.5,       0.0);         ( 652995.8,
4182973.4,       6.6,       6.6,       0.0);
     ( 653045.8, 4182973.4,       6.8,       6.8,       0.0);         ( 653095.8,
4182973.4,       6.8,       6.8,       0.0);
     ( 653145.8, 4182973.4,       6.8,       6.8,       0.0);         ( 653195.8,
4182973.4,       6.9,       6.9,       0.0);
     ( 653245.8, 4182973.4,       7.0,       7.0,       0.0);         ( 653295.8,
4182973.4,       7.0,       7.0,       0.0);
     ( 653345.8, 4182973.4,       7.1,       7.1,       0.0);         ( 653395.8,
4182973.4,       7.2,       7.2,       0.0);
     ( 653445.8, 4182973.4,       7.2,       7.2,       0.0);         ( 653495.8,
4182973.4,       7.3,       7.3,       0.0);
     ( 653545.8, 4182973.4,       7.3,       7.3,       0.0);         ( 654295.8,
4182973.4,       8.1,       8.1,       0.0);
     ( 654345.8, 4182973.4,       8.1,       8.1,       0.0);         ( 654395.8,
4182973.4,       8.2,       8.2,       0.0);
     ( 654445.8, 4182973.4,       8.3,       8.3,       0.0);         ( 654495.8,
4182973.4,       8.4,       8.4,       0.0);
     ( 654545.8, 4182973.4,       8.4,       8.4,       0.0);         ( 654595.8,
4182973.4,       8.5,       8.5,       0.0);
     ( 654645.8, 4182973.4,       8.5,       8.5,       0.0);         ( 654695.8,
4182973.4,       8.5,       8.5,       0.0);
     ( 654745.8, 4182973.4,       8.6,       8.6,       0.0);         ( 654795.8,
4182973.4,       8.6,       8.6,       0.0);
     ( 654845.8, 4182973.4,       8.6,       8.6,       0.0);         ( 654895.8,
4182973.4,       8.7,       8.7,       0.0);
     ( 654945.8, 4182973.4,       8.7,       8.7,       0.0);         ( 654995.8,
4182973.4,       8.8,       8.8,       0.0);
     ( 655045.8, 4182973.4,       9.0,       9.0,       0.0);         ( 655095.8,
4182973.4,       9.2,       9.2,       0.0);
     ( 652795.8, 4183023.4,       5.5,       5.5,       0.0);         ( 652845.8,
4183023.4,       6.5,       6.5,       0.0);
     ( 652895.8, 4183023.4,       6.7,       6.7,       0.0);         ( 652945.8,
4183023.4,       6.7,       6.7,       0.0);
     ( 652995.8, 4183023.4,       6.8,       6.8,       0.0);         ( 653045.8,
```

4183023.4,   6.8,   6.8,   0.0);
     (653095.8, 4183023.4,   6.8,   6.8,   0.0);   (653145.8,
4183023.4,   6.8,   6.8,   0.0);
     (653195.8, 4183023.4,   6.9,   6.9,   0.0);   (653245.8,
4183023.4,   7.0,   7.0,   0.0);
     (653295.8, 4183023.4,   7.1,   7.1,   0.0);   (653345.8,
4183023.4,   7.2,   7.2,   0.0);
     (653395.8, 4183023.4,   7.2,   7.2,   0.0);   (653445.8,
4183023.4,   7.3,   7.3,   0.0);
     (653495.8, 4183023.4,   7.3,   7.3,   0.0);   (654295.8,
4183023.4,   8.1,   8.1,   0.0);
     (654345.8, 4183023.4,   8.1,   8.1,   0.0);   (654395.8,
4183023.4,   8.2,   8.2,   0.0);
     (654445.8, 4183023.4,   8.2,   8.2,   0.0);   (654495.8,
4183023.4,   8.3,   8.3,   0.0);
     (654545.8, 4183023.4,   8.4,   8.4,   0.0);   (654595.8,
4183023.4,   8.4,   8.4,   0.0);
     (654645.8, 4183023.4,   8.5,   8.5,   0.0);   (654695.8,
4183023.4,   8.6,   8.6,   0.0);
     (654745.8, 4183023.4,   8.6,   8.6,   0.0);   (654795.8,
4183023.4,   8.6,   8.6,   0.0);
     (654845.8, 4183023.4,   8.6,   8.6,   0.0);   (654895.8,
4183023.4,   8.7,   8.7,   0.0);
     (654945.8, 4183023.4,   8.7,   8.7,   0.0);   (654995.8,
4183023.4,   8.8,   8.8,   0.0);
     (655045.8, 4183023.4,   9.0,   9.0,   0.0);   (652795.8,
4183073.4,   6.3,   6.3,   0.0);
     (652845.8, 4183073.4,   6.7,   6.7,   0.0);   (652895.8,
4183073.4,   6.8,   6.8,   0.0);
     (652945.8, 4183073.4,   6.8,   6.8,   0.0);   (652995.8,
4183073.4,   6.8,   6.8,   0.0);
     (653045.8, 4183073.4,   6.8,   6.8,   0.0);   (653095.8,
4183073.4,   6.8,   6.8,   0.0);
     (654345.8, 4183073.4,   8.2,   8.2,   0.0);   (654395.8,
4183073.4,   8.2,   8.2,   0.0);
     (654445.8, 4183073.4,   8.2,   8.2,   0.0);   (654495.8,
4183073.4,   8.3,   8.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     (654545.8, 4183073.4,   8.3,   8.3,   0.0);   (654595.8,

```
4183073.4,       8.4,       8.4,       0.0);
     ( 654645.8, 4183073.4,       8.4,       8.4,       0.0);         ( 654695.8,
4183073.4,       8.5,       8.5,       0.0);
     ( 654745.8, 4183073.4,       8.6,       8.6,       0.0);         ( 654795.8,
4183073.4,       8.6,       8.6,       0.0);
     ( 654845.8, 4183073.4,       8.7,       8.7,       0.0);         ( 654895.8,
4183073.4,       8.7,       8.7,       0.0);
     ( 654945.8, 4183073.4,       8.7,       8.7,       0.0);         ( 654995.8,
4183073.4,       8.8,       8.8,       0.0);
     ( 655045.8, 4183073.4,       8.9,       8.9,       0.0);         ( 653595.8,
4183123.4,       7.7,       7.7,       0.0);
     ( 654895.8, 4183123.4,       8.6,       8.6,       0.0);         ( 654945.8,
4183123.4,       8.7,       8.7,       0.0);
     ( 654445.8, 4183273.4,       8.4,       8.4,       0.0);         ( 654495.8,
4183273.4,       8.4,       8.4,       0.0);
     ( 654545.8, 4183273.4,       8.4,       8.4,       0.0);         ( 654595.8,
4183273.4,       8.3,       8.3,       0.0);
     ( 654645.8, 4183273.4,       8.3,       8.3,       0.0);         ( 654695.8,
4183273.4,       8.4,       8.4,       0.0);
     ( 654745.8, 4183273.4,       8.4,       8.4,       0.0);         ( 654795.8,
4183273.4,       8.4,       8.4,       0.0);
     ( 654845.8, 4183273.4,       8.4,       8.4,       0.0);         ( 654895.8,
4183273.4,       8.4,       8.4,       0.0);
     ( 654945.8, 4183273.4,       8.5,       8.5,       0.0);         ( 654345.8,
4183323.4,       8.4,       8.4,       0.0);
     ( 654395.8, 4183323.4,       8.4,       8.4,       0.0);         ( 654445.8,
4183323.4,       8.4,       8.4,       0.0);
     ( 654495.8, 4183323.4,       8.3,       8.3,       0.0);         ( 654545.8,
4183323.4,       8.3,       8.3,       0.0);
     ( 654595.8, 4183323.4,       8.3,       8.3,       0.0);         ( 654645.8,
4183323.4,       8.3,       8.3,       0.0);
     ( 654695.8, 4183323.4,       8.3,       8.3,       0.0);         ( 654745.8,
4183323.4,       8.3,       8.3,       0.0);
     ( 654795.8, 4183323.4,       8.3,       8.3,       0.0);         ( 654845.8,
4183323.4,       8.3,       8.3,       0.0);
     ( 654895.8, 4183323.4,       8.3,       8.3,       0.0);         ( 654945.8,
4183323.4,       8.3,       8.3,       0.0);
     ( 654995.8, 4183323.4,       8.4,       8.4,       0.0);         ( 655045.8,
4183323.4,       8.4,       8.4,       0.0);
     ( 655095.8, 4183323.4,       8.4,       8.4,       0.0);         ( 655145.8,
4183323.4,       8.4,       8.4,       0.0);
     ( 655195.8, 4183323.4,       8.5,       8.5,       0.0);         ( 655245.8,
4183323.4,       8.5,       8.5,       0.0);
     ( 654295.8, 4183373.4,       8.3,       8.3,       0.0);         ( 654345.8,
4183373.4,       8.3,       8.3,       0.0);
     ( 654395.8, 4183373.4,       8.3,       8.3,       0.0);         ( 654795.8,
4183373.4,       8.3,       8.3,       0.0);
     ( 654845.8, 4183373.4,       8.3,       8.3,       0.0);         ( 654895.8,
4183373.4,       8.3,       8.3,       0.0);
     ( 654945.8, 4183373.4,       8.3,       8.3,       0.0);         ( 654995.8,
```

```
4183373.4,       8.3,       8.3,       0.0);
     ( 655045.8, 4183373.4,       8.4,       8.4,       0.0);         ( 655095.8,
4183373.4,       8.3,       8.3,       0.0);
     ( 655145.8, 4183373.4,       8.4,       8.4,       0.0);         ( 655195.8,
4183373.4,       8.5,       8.5,       0.0);
     ( 655245.8, 4183373.4,       8.6,       8.6,       0.0);         ( 655295.8,
4183373.4,       8.6,       8.6,       0.0);
     ( 655345.8, 4183373.4,       8.7,       8.7,       0.0);         ( 654295.8,
4183423.4,       8.3,       8.3,       0.0);
     ( 654395.8, 4183423.4,       8.3,       8.3,       0.0);         ( 654445.8,
4183423.4,       8.3,       8.3,       0.0);
     ( 654495.8, 4183423.4,       8.3,       8.3,       0.0);         ( 654545.8,
4183423.4,       8.3,       8.3,       0.0);
     ( 654595.8, 4183423.4,       8.4,       8.4,       0.0);         ( 654645.8,
4183423.4,       8.5,       8.5,       0.0);
     ( 654695.8, 4183423.4,       8.6,       8.6,       0.0);         ( 654745.8,
4183423.4,       8.6,       8.6,       0.0);
     ( 654795.8, 4183423.4,       8.5,       8.5,       0.0);         ( 654895.8,
4183423.4,       8.4,       8.4,       0.0);
     ( 654945.8, 4183423.4,       8.4,       8.4,       0.0);         ( 654995.8,
4183423.4,       8.4,       8.4,       0.0);
     ( 655045.8, 4183423.4,       8.5,       8.5,       0.0);         ( 655095.8,
4183423.4,       8.6,       8.6,       0.0);
     ( 655145.8, 4183423.4,       8.8,       8.8,       0.0);         ( 655195.8,
4183423.4,       8.9,       8.9,       0.0);
     ( 655245.8, 4183423.4,       9.0,       9.0,       0.0);         ( 655295.8,
4183423.4,       9.2,       9.2,       0.0);
     ( 655345.8, 4183423.4,       9.4,       9.4,       0.0);         ( 655395.8,
4183423.4,       9.8,       9.8,       0.0);
     ( 655445.8, 4183423.4,      10.1,      10.1,       0.0);         ( 655545.8,
4183423.4,      10.5,      10.5,       0.0);
     ( 655595.8, 4183423.4,      10.6,      10.6,       0.0);         ( 654295.8,
4183473.4,       8.3,       8.3,       0.0);
     ( 654345.8, 4183473.4,       8.3,       8.3,       0.0);         ( 654395.8,
4183473.4,       8.3,       8.3,       0.0);
     ( 654445.8, 4183473.4,       8.3,       8.3,       0.0);         ( 654495.8,
4183473.4,       8.4,       8.4,       0.0);
     ( 654545.8, 4183473.4,       8.6,       8.6,       0.0);         ( 654595.8,
4183473.4,       8.8,       8.8,       0.0);
```


*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 654645.8, 4183473.4,       8.9,       8.9,       0.0);         ( 654695.8,
4183473.4,       8.9,       8.9,       0.0);
     ( 654745.8, 4183473.4,       8.9,       8.9,       0.0);         ( 654795.8,
4183473.4,       8.9,       8.9,       0.0);
     ( 654845.8, 4183473.4,       8.8,       8.8,       0.0);         ( 654895.8,
4183473.4,       8.8,       8.8,       0.0);
     ( 654945.8, 4183473.4,       8.8,       8.8,       0.0);         ( 655345.8,
4183473.4,       9.9,       9.9,       0.0);
     ( 655395.8, 4183473.4,      10.3,      10.3,       0.0);         ( 655445.8,
4183473.4,      10.7,      10.7,       0.0);
     ( 655495.8, 4183473.4,      11.0,      11.0,       0.0);         ( 655545.8,
4183473.4,      11.2,      11.2,       0.0);
     ( 655595.8, 4183473.4,      11.2,      11.2,       0.0);         ( 655645.8,
4183473.4,      11.3,      11.3,       0.0);
     ( 655695.8, 4183473.4,      11.4,      11.4,       0.0);         ( 655745.8,
4183473.4,      11.4,      11.4,       0.0);
     ( 654195.8, 4183523.4,       8.2,       8.2,       0.0);         ( 654245.8,
4183523.4,       8.2,       8.2,       0.0);
     ( 654295.8, 4183523.4,       8.3,       8.3,       0.0);         ( 654345.8,
4183523.4,       8.5,       8.5,       0.0);
     ( 654395.8, 4183523.4,       8.9,       8.9,       0.0);         ( 654445.8,
4183523.4,       9.1,       9.1,       0.0);
     ( 654495.8, 4183523.4,       9.2,       9.2,       0.0);         ( 654545.8,
4183523.4,       9.3,       9.3,       0.0);
     ( 654595.8, 4183523.4,       9.4,       9.4,       0.0);         ( 654645.8,
4183523.4,       9.4,       9.4,       0.0);
     ( 654695.8, 4183523.4,       9.3,       9.3,       0.0);         ( 654745.8,
4183523.4,       9.3,       9.3,       0.0);
     ( 654795.8, 4183523.4,       9.2,       9.2,       0.0);         ( 654845.8,
4183523.4,       9.2,       9.2,       0.0);
     ( 654895.8, 4183523.4,       9.2,       9.2,       0.0);         ( 654945.8,
4183523.4,       9.3,       9.3,       0.0);
     ( 655295.8, 4183523.4,      10.0,      10.0,       0.0);         ( 655345.8,
4183523.4,      10.3,      10.3,       0.0);
     ( 655395.8, 4183523.4,      10.7,      10.7,       0.0);         ( 655445.8,
4183523.4,      11.2,      11.2,       0.0);
     ( 655495.8, 4183523.4,      11.5,      11.5,       0.0);         ( 655545.8,
4183523.4,      11.5,      11.5,       0.0);
     ( 655595.8, 4183523.4,      11.5,      11.5,       0.0);         ( 655645.8,
4183523.4,      11.5,      11.5,       0.0);
     ( 655695.8, 4183523.4,      11.5,      11.5,       0.0);         ( 655745.8,
4183523.4,      11.5,      11.5,       0.0);
     ( 654145.8, 4183573.4,       8.3,       8.3,       0.0);         ( 654195.8,
4183573.4,       8.2,       8.2,       0.0);
     ( 654245.8, 4183573.4,       8.5,       8.5,       0.0);         ( 654295.8,
4183573.4,       9.1,       9.1,       0.0);
     ( 654345.8, 4183573.4,       9.7,       9.7,       0.0);         ( 654395.8,
4183573.4,       9.9,       9.9,       0.0);
     ( 654445.8, 4183573.4,       9.9,       9.9,       0.0);         ( 654495.8,
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     (654545.8, 4183573.4,   9.9,   9.9,   0.0);   (654595.8,
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     (654645.8, 4183573.4,   9.8,   9.8,   0.0);   (654695.8,
4183573.4,   9.7,   9.7,   0.0);
     (654745.8, 4183573.4,   9.6,   9.6,   0.0);   (654795.8,
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     (654845.8, 4183573.4,   9.6,   9.6,   0.0);   (654895.8,
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     (654945.8, 4183573.4,   9.6,   9.6,   0.0);   (655295.8,
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     (655345.8, 4183573.4,   10.7,   10.7,   0.0);   (655395.8,
4183573.4,   11.0,   11.0,   0.0);
     (655445.8, 4183573.4,   11.4,   11.4,   0.0);   (655495.8,
4183573.4,   11.6,   11.6,   0.0);
     (655545.8, 4183573.4,   11.6,   11.6,   0.0);   (655595.8,
4183573.4,   11.6,   11.6,   0.0);
     (655645.8, 4183573.4,   11.5,   11.5,   0.0);   (655695.8,
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     (655745.8, 4183573.4,   11.4,   11.4,   0.0);   (652295.8,
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     (652345.8, 4183623.4,   6.7,   6.7,   0.0);   (654145.8,
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     (654195.8, 4183623.4,   9.2,   9.2,   0.0);   (654245.8,
4183623.4,   9.7,   9.7,   0.0);
     (654295.8, 4183623.4,   9.9,   9.9,   0.0);   (654345.8,
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     (654195.8, 4183673.4,   9.8,   9.8,   0.0);   (654245.8,
4183673.4,   9.9,   9.9,   0.0);
     (654295.8, 4183673.4,   9.9,   9.9,   0.0);   (654345.8,
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     (653845.8, 4183723.4,   7.9,   7.9,   0.0);   (654245.8,
4183723.4,   9.6,   9.6,   0.0);
     (654295.8, 4183723.4,   9.5,   9.5,   0.0);   (654345.8,
4183723.4,   9.4,   9.4,   0.0);
     (653845.8, 4183773.4,   8.3,   8.3,   0.0);   (654045.8,
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     (654095.8, 4183773.4,   8.8,   8.8,   0.0);   (654145.8,
4183773.4,   8.9,   8.9,   0.0);
     (654195.8, 4183773.4,   9.1,   9.1,   0.0);   (654245.8,
4183773.4,   9.1,   9.1,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(654295.8, 4183773.4, 9.1, 9.1, 0.0); (654345.8, 4183773.4, 9.0, 9.0, 0.0);
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(654095.8, 4183823.4, 8.9, 8.9, 0.0); (654145.8, 4183823.4, 8.9, 8.9, 0.0);
(654195.8, 4183823.4, 8.9, 8.9, 0.0); (654245.8, 4183823.4, 8.8, 8.8, 0.0);
(654295.8, 4183823.4, 8.8, 8.8, 0.0); (654345.8, 4183823.4, 8.8, 8.8, 0.0);
(653945.8, 4183873.4, 9.3, 9.3, 0.0); (653995.8, 4183873.4, 9.3, 9.3, 0.0);
(654045.8, 4183873.4, 9.3, 9.3, 0.0); (654095.8, 4183873.4, 9.1, 9.1, 0.0);
(654145.8, 4183873.4, 8.9, 8.9, 0.0); (654195.8, 4183873.4, 8.6, 8.6, 0.0);
(654245.8, 4183873.4, 8.5, 8.5, 0.0); (654295.8, 4183873.4, 8.5, 8.5, 0.0);
(654345.8, 4183873.4, 8.5, 8.5, 0.0); (653845.8, 4183923.4, 9.5, 9.5, 0.0);
(653945.8, 4183923.4, 9.6, 9.6, 0.0); (653995.8, 4183923.4, 9.7, 9.7, 0.0);
(654045.8, 4183923.4, 9.6, 9.6, 0.0); (654095.8, 4183923.4, 9.5, 9.5, 0.0);
(654145.8, 4183923.4, 9.1, 9.1, 0.0); (654195.8, 4183923.4, 8.7, 8.7, 0.0);
(654245.8, 4183923.4, 8.5, 8.5, 0.0); (654295.8, 4183923.4, 8.3, 8.3, 0.0);
(654345.8, 4183923.4, 8.3, 8.3, 0.0); (653745.8, 4183973.4, 9.8, 9.8, 0.0);
(653745.8, 4184023.4, 9.7, 9.7, 0.0); (653795.8, 4184023.4, 9.9, 9.9, 0.0);
(653845.8, 4184023.4, 10.0, 10.0, 0.0); (653945.8, 4184023.4, 10.1, 10.1, 0.0);
(653995.8, 4184023.4, 10.1, 10.1, 0.0); (654045.8, 4184023.4, 10.1, 10.1, 0.0);
(654095.8, 4184023.4, 10.0, 10.0, 0.0); (654145.8, 4184023.4, 9.8, 9.8, 0.0);
(654195.8, 4184023.4, 9.6, 9.6, 0.0); (654245.8, 4184023.4, 9.5, 9.5, 0.0);
(654295.8, 4184023.4, 9.5, 9.5, 0.0); (653745.8, 4184073.4, 8.7, 8.7, 0.0);
(653795.8, 4184073.4, 9.8, 9.8, 0.0); (653845.8, 4184073.4, 10.0, 10.0, 0.0);
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(654145.8, 4184073.4, 10.1, 10.1, 0.0); (654195.8,

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     ( 653745.8, 4184123.4,       8.4,       8.4,       0.0);         ( 653795.8,
4184123.4,       9.0,       9.0,       0.0);
     ( 653845.8, 4184123.4,       9.7,       9.7,       0.0);         ( 653945.8,
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     ( 654095.8, 4184123.4,      10.2,      10.2,       0.0);         ( 654145.8,
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     ( 654195.8, 4184123.4,      10.5,      10.5,       0.0);         ( 654245.8,
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     ( 654295.8, 4184123.4,      11.1,      11.1,       0.0);         ( 654345.8,
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4184173.4,      10.3,      10.3,       0.0);
     ( 654195.8, 4184173.4,      10.4,      10.4,       0.0);         ( 654245.8,
4184173.4,      10.5,      10.5,       0.0);
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     ( 653945.8, 4184223.4,       9.8,       9.8,       0.0);         ( 654095.8,
4184223.4,      10.1,      10.1,       0.0);
     ( 654145.8, 4184223.4,      10.1,      10.1,       0.0);         ( 654195.8,
4184223.4,      10.1,      10.1,       0.0);
     ( 654245.8, 4184223.4,      10.0,      10.0,       0.0);         ( 653745.8,
4184273.4,       8.5,       8.5,       0.0);
     ( 653795.8, 4184273.4,       8.7,       8.7,       0.0);         ( 653845.8,
4184273.4,       8.8,       8.8,       0.0);
     ( 653895.8, 4184273.4,       9.2,       9.2,       0.0);         ( 653945.8,
4184273.4,       9.5,       9.5,       0.0);
     ( 653995.8, 4184273.4,       9.8,       9.8,       0.0);         ( 654095.8,
4184273.4,       9.9,       9.9,       0.0);
     ( 654145.8, 4184273.4,       9.9,       9.9,       0.0);         ( 654195.8,
4184273.4,       9.9,       9.9,       0.0);
     ( 654245.8, 4184273.4,       9.8,       9.8,       0.0);         ( 653745.8,
4184323.4,       8.3,       8.3,       0.0);
     ( 653795.8, 4184323.4,       8.4,       8.4,       0.0);         ( 653845.8,
4184323.4,       8.5,       8.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        09:09:29

                                  PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(653895.8, 4184323.4, 8.8, 8.8, 0.0); (653945.8, 4184323.4, 9.2, 9.2, 0.0);
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(654195.8, 4184323.4, 9.8, 9.8, 0.0); (654245.8, 4184323.4, 9.7, 9.7, 0.0);
(653745.8, 4184373.4, 8.3, 8.3, 0.0); (653795.8, 4184373.4, 8.3, 8.3, 0.0);
(653845.8, 4184373.4, 8.4, 8.4, 0.0); (653895.8, 4184373.4, 8.6, 8.6, 0.0);
(653945.8, 4184373.4, 8.9, 8.9, 0.0); (654095.8, 4184373.4, 9.6, 9.6, 0.0);
(654145.8, 4184373.4, 9.6, 9.6, 0.0); (654195.8, 4184373.4, 9.6, 9.6, 0.0);
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(653795.8, 4184423.4, 8.3, 8.3, 0.0); (653845.8, 4184423.4, 8.3, 8.3, 0.0);
(653895.8, 4184423.4, 8.5, 8.5, 0.0); (653945.8, 4184423.4, 8.7, 8.7, 0.0);
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(653795.8, 4184523.4, 8.4, 8.4, 0.0); (653845.8, 4184523.4, 8.5, 8.5, 0.0);
(653895.8, 4184523.4, 8.7, 8.7, 0.0); (653945.8, 4184523.4, 8.7, 8.7, 0.0);
(654095.8, 4184523.4, 9.0, 9.0, 0.0); (654145.8, 4184523.4, 9.1, 9.1, 0.0);
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     ( 653895.8, 4184573.4,       8.7,       8.7,       0.0);         ( 653945.8,
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     ( 654095.8, 4184573.4,       8.9,       8.9,       0.0);         ( 654145.8,
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     ( 654195.8, 4184573.4,       9.0,       9.0,       0.0);         ( 654245.8,
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     ( 654295.8, 4184573.4,       9.1,       9.1,       0.0);         ( 653645.8,
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     ( 653795.8, 4184623.4,       8.4,       8.4,       0.0);         ( 653845.8,
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     ( 653895.8, 4184623.4,       8.7,       8.7,       0.0);         ( 653945.8,
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     ( 654095.8, 4184623.4,       8.8,       8.8,       0.0);         ( 654295.8,
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     ( 653645.8, 4184673.4,       8.2,       8.2,       0.0);         ( 653695.8,
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     ( 653645.8, 4184723.4,       8.3,       8.3,       0.0);         ( 653695.8,
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4184773.4,       8.5,       8.5,       0.0);
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       09:09:29
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(653945.8, 4184873.4, 8.3, 8.3, 0.0); (653995.8, 4184873.4, 8.3, 8.3, 0.0);
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(653945.8, 4184923.4, 8.2, 8.2, 0.0); (653995.8, 4184923.4, 8.2, 8.2, 0.0);
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(653945.8, 4185073.4, 7.8, 7.8, 0.0); (653995.8, 4185073.4, 7.9, 7.9, 0.0);
(653745.8, 4185123.4, 7.6, 7.6, 0.0); (653795.8, 4185123.4, 7.6, 7.6, 0.0);
(653845.8, 4185123.4, 7.6, 7.6, 0.0); (653895.8, 4185123.4, 7.7, 7.7, 0.0);
(653945.8, 4185123.4, 7.7, 7.7, 0.0); (653995.8,

4185123.4,   7.8,   7.8,   0.0);
     (653745.8, 4185173.4,   7.5,   7.5,   0.0);   (653795.8,
4185173.4,   7.5,   7.5,   0.0);
     (653845.8, 4185173.4,   7.5,   7.5,   0.0);   (653895.8,
4185173.4,   7.6,   7.6,   0.0);
     (653945.8, 4185173.4,   7.6,   7.6,   0.0);   (653995.8,
4185173.4,   7.7,   7.7,   0.0);

                     * SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT
BE PERFORMED *
                       LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR
FASTAREA/FASTALL

                              SOURCE   - - RECEPTOR LOCATION - -
DISTANCE
                                ID   XR (METERS)   YR (METERS)
(METERS)
                             -
- - -

                              L0011686   653895.8   4184323.4
0.79
                              L0011691   653895.8   4184273.4
0.26
                              L0011692   653895.8   4184273.4
0.97

                                             *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                          (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\2017_Stockton.SFC
Met Version: 18081
Profile file: AERMET\2017_Stockton.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23237 Upper air station no.: 23230
Name: UNKNOWN Name: OAKLAND/WSO_AP
Year: 2017 Year: 2017

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT

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*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653895.75	4180773.41	0.00088	653945.75	4180773.41	0.00194
653895.75	4180823.41	0.00093	653945.75	4180823.41	0.00204
653995.75	4180823.41	0.00201	654045.75	4180823.41	0.00118
654195.75	4180823.41	0.00063	654245.75	4180923.41	0.00060
654245.75	4180973.41	0.00061	653995.75	4181023.41	0.00196
653995.75	4181073.41	0.00195	654045.75	4181073.41	0.00123
653895.75	4181273.41	0.00118	653495.75	4181323.41	0.00042

653545.75 4181323.41 0.00045 653895.75 4181323.41 0.00121
653495.75 4181373.41 0.00044 653545.75 4181373.41 0.00047
653895.75 4181373.41 0.00125 653995.75 4181373.41 0.00189
653895.75 4181423.41 0.00128 653795.75 4181473.41 0.00077
653895.75 4181473.41 0.00131 653895.75 4181523.41 0.00136
654195.75 4181523.41 0.00087 653995.75 4181673.41 0.00191
653995.75 4181723.41 0.00193 654145.75 4181723.41 0.00107
654245.75 4181723.41 0.00093 653995.75 4181773.41 0.00195
653995.75 4181823.41 0.00197 654045.75 4181823.41 0.00148
653945.75 4182123.41 0.00384 653895.75 4182223.41 0.00248
654245.75 4182323.41 0.00199 653145.75 4182373.41 0.00079
653195.75 4182373.41 0.00083 653245.75 4182373.41 0.00088
653295.75 4182373.41 0.00094 653345.75 4182373.41 0.00101
653395.75 4182373.41 0.00108 653445.75 4182373.41 0.00117
653495.75 4182373.41 0.00128 653545.75 4182373.41 0.00140
653595.75 4182373.41 0.00154 653645.75 4182373.41 0.00169
653695.75 4182373.41 0.00184 653745.75 4182373.41 0.00200
653795.75 4182373.41 0.00219 653845.75 4182373.41 0.00244
653895.75 4182373.41 0.00297 654245.75 4182373.41 0.00222
653145.75 4182423.41 0.00084 653195.75 4182423.41 0.00090
653245.75 4182423.41 0.00096 653295.75 4182423.41 0.00102
653345.75 4182423.41 0.00110 653395.75 4182423.41 0.00118
653445.75 4182423.41 0.00129 653495.75 4182423.41 0.00141
653545.75 4182423.41 0.00155 653595.75 4182423.41 0.00171
653645.75 4182423.41 0.00190 653695.75 4182423.41 0.00209

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653695.75	4182473.41	0.00241	653745.75	4182473.41	0.00267
653795.75	4182473.41	0.00294	653895.75	4182473.41	0.00378
654245.75	4182473.41	0.00280	653145.75		

```
4182523.41        0.00098
         653195.75    4182523.41        0.00105                    653245.75
4182523.41        0.00113
         653295.75    4182523.41        0.00122                    653345.75
4182523.41        0.00132
         653395.75    4182523.41        0.00144                    653445.75
4182523.41        0.00157
         653495.75    4182523.41        0.00173                    653545.75
4182523.41        0.00194
         653595.75    4182523.41        0.00220                    653645.75
4182523.41        0.00250
         653695.75    4182523.41        0.00284                    653745.75
4182523.41        0.00320
         653795.75    4182523.41        0.00357                    653895.75
4182523.41        0.00457
         653945.75    4182523.41        0.00522                    654245.75
4182523.41        0.00316
         653145.75    4182573.41        0.00105                    653195.75
4182573.41        0.00113
         653245.75    4182573.41        0.00123                    653295.75
4182573.41        0.00134
         653345.75    4182573.41        0.00147                    653395.75
4182573.41        0.00161
         653445.75    4182573.41        0.00178                    653495.75
4182573.41        0.00197
         653545.75    4182573.41        0.00222                    653595.75
4182573.41        0.00254
         653645.75    4182573.41        0.00294                    653695.75
4182573.41        0.00343
         653745.75    4182573.41        0.00396                    653795.75
4182573.41        0.00451
         653895.75    4182573.41        0.00580                    653945.75
4182573.41        0.00640
         653995.75    4182573.41        0.00565                    654045.75
4182573.41        0.00517
         654095.75    4182573.41        0.00474                    654145.75
4182573.41        0.00432
         654195.75    4182573.41        0.00391                    654245.75
4182573.41        0.00353
         653145.75    4182623.41        0.00112                    653195.75
4182623.41        0.00122
         653245.75    4182623.41        0.00133                    653295.75
4182623.41        0.00147
         653345.75    4182623.41        0.00162                    653395.75
4182623.41        0.00181
         653445.75    4182623.41        0.00203                    653495.75
4182623.41        0.00228
         653545.75    4182623.41        0.00259                    653595.75
4182623.41        0.00300
         653645.75    4182623.41        0.00353                    653695.75
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4182623.41        0.00424
         653745.75    4182623.41        0.00508                       653795.75
4182623.41        0.00599
         653895.75    4182623.41        0.00781                       653945.75
4182623.41        0.00825
         653995.75    4182623.41        0.00722                       654045.75
4182623.41        0.00643
         654095.75    4182623.41        0.00569                       654145.75
4182623.41        0.00500
         654195.75    4182623.41        0.00439                       654245.75
4182623.41        0.00386
         653145.75    4182673.41        0.00119                       653195.75
4182673.41        0.00130
         653245.75    4182673.41        0.00144                       653295.75
4182673.41        0.00160
         653345.75    4182673.41        0.00179                       653395.75
4182673.41        0.00203
         653445.75    4182673.41        0.00231                       653495.75
4182673.41        0.00266
         653545.75    4182673.41        0.00308                       653595.75
4182673.41        0.00362
         653645.75    4182673.41        0.00436                       653695.75
4182673.41        0.00543
         653745.75    4182673.41        0.00688                       653795.75
4182673.41        0.00860
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                   PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653895.75	4182673.41	0.01147	653945.75	4182673.41	0.01133
653995.75	4182673.41	0.00951	654045.75	4182673.41	0.00798
654095.75	4182673.41	0.00668	654145.75	4182673.41	0.00562
654195.75	4182673.41	0.00477	654245.75	4182673.41	0.00410
653145.75	4182723.41	0.00127	653195.75	4182723.41	0.00140
653245.75	4182723.41	0.00154	653295.75	4182723.41	0.00173
653345.75	4182723.41	0.00196	653395.75	4182723.41	0.00225
653445.75	4182723.41	0.00261	653495.75	4182723.41	0.00308
653545.75	4182723.41	0.00369	653595.75	4182723.41	0.00448
653645.75	4182723.41	0.00559	653695.75	4182723.41	0.00725
653745.75	4182723.41	0.00998	653795.75	4182723.41	0.01406
653945.75	4182723.41	0.01657	653995.75	4182723.41	0.01223
654045.75	4182723.41	0.00941	654095.75	4182723.41	0.00744
654145.75	4182723.41	0.00602	654195.75	4182723.41	0.00498
654245.75	4182723.41	0.00421	653145.75	4182773.41	0.00136
653195.75	4182773.41	0.00150	653245.75	4182773.41	0.00167
653295.75	4182773.41	0.00188	653345.75	4182773.41	0.00215
653395.75	4182773.41	0.00249	653445.75	4182773.41	0.00293
653495.75	4182773.41	0.00353	653545.75	4182773.41	0.00437
653595.75	4182773.41	0.00558	653645.75	4182773.41	0.00744
653695.75	4182773.41	0.01051	653745.75	4182773.41	0.01672
654095.75	4182773.41	0.00767	654145.75	4182773.41	0.00609
654195.75	4182773.41	0.00498	654245.75	4182773.41	0.00418

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         653145.75    4182823.41        0.00146                       653195.75
4182823.41        0.00161
         653245.75    4182823.41        0.00180                       653295.75
4182823.41        0.00204
         653345.75    4182823.41        0.00233                       653395.75
4182823.41        0.00273
         653445.75    4182823.41        0.00326                       653495.75
4182823.41        0.00401
         653545.75    4182823.41        0.00514                       653595.75
4182823.41        0.00693
         653645.75    4182823.41        0.01023                       653695.75
4182823.41        0.01914
         654145.75    4182823.41        0.00579                       654195.75
4182823.41        0.00476
         654245.75    4182823.41        0.00402                       652795.75
4182873.41        0.00092
         652845.75    4182873.41        0.00098                       652895.75
4182873.41        0.00105
         652945.75    4182873.41        0.00112                       652995.75
4182873.41        0.00121
         653045.75    4182873.41        0.00131                       653095.75
4182873.41        0.00142
         653145.75    4182873.41        0.00156                       653195.75
4182873.41        0.00172
         653245.75    4182873.41        0.00192                       653295.75
4182873.41        0.00217
         653345.75    4182873.41        0.00249                       653395.75
4182873.41        0.00292
         653445.75    4182873.41        0.00352                       653495.75
4182873.41        0.00441
         653545.75    4182873.41        0.00582                       653595.75
4182873.41        0.00841
         653645.75    4182873.41        0.01573                       654195.75
4182873.41        0.00431
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***       09:09:29

                                  PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
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                L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         654245.75    4182873.41        0.00370                       654295.75
4182873.41        0.00323
         654645.75    4182873.41        0.00177                       654695.75
4182873.41        0.00167
         654745.75    4182873.41        0.00159                       654795.75
4182873.41        0.00152
         654845.75    4182873.41        0.00146                       654895.75
4182873.41        0.00140
         654945.75    4182873.41        0.00135                       654995.75
4182873.41        0.00130
         652795.75    4182923.41        0.00098                       652845.75
4182923.41        0.00105
         652895.75    4182923.41        0.00112                       652945.75
4182923.41        0.00120
         652995.75    4182923.41        0.00129                       653045.75
4182923.41        0.00139
         653095.75    4182923.41        0.00151                       653145.75
4182923.41        0.00165
         653195.75    4182923.41        0.00181                       653245.75
4182923.41        0.00201
         653295.75    4182923.41        0.00226                       653345.75
4182923.41        0.00259
         653395.75    4182923.41        0.00302                       653445.75
4182923.41        0.00364
         653495.75    4182923.41        0.00459                       653545.75
4182923.41        0.00629
         653595.75    4182923.41        0.01073                       654245.75
4182923.41        0.00327
         654295.75    4182923.41        0.00292                       654345.75
4182923.41        0.00264
         654395.75    4182923.41        0.00242                       654445.75
4182923.41        0.00224
         654495.75    4182923.41        0.00209                       654545.75
4182923.41        0.00197
         654595.75    4182923.41        0.00186                       654645.75
4182923.41        0.00177
         654695.75    4182923.41        0.00169                       654745.75
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4182923.41        0.00162
         654795.75    4182923.41        0.00155                        654845.75
4182923.41        0.00150
         654895.75    4182923.41        0.00145                        654945.75
4182923.41        0.00140
         654995.75    4182923.41        0.00136                        655045.75
4182923.41        0.00132
         655095.75    4182923.41        0.00128                        652795.75
4182973.41        0.00106
         652845.75    4182973.41        0.00113                        652895.75
4182973.41        0.00121
         652945.75    4182973.41        0.00130                        652995.75
4182973.41        0.00139
         653045.75    4182973.41        0.00149                        653095.75
4182973.41        0.00161
         653145.75    4182973.41        0.00174                        653195.75
4182973.41        0.00190
         653245.75    4182973.41        0.00209                        653295.75
4182973.41        0.00232
         653345.75    4182973.41        0.00262                        653395.75
4182973.41        0.00303
         653445.75    4182973.41        0.00361                        653495.75
4182973.41        0.00458
         653545.75    4182973.41        0.00698                        654295.75
4182973.41        0.00259
         654345.75    4182973.41        0.00241                        654395.75
4182973.41        0.00225
         654445.75    4182973.41        0.00213                        654495.75
4182973.41        0.00202
         654545.75    4182973.41        0.00193                        654595.75
4182973.41        0.00185
         654645.75    4182973.41        0.00178                        654695.75
4182973.41        0.00172
         654745.75    4182973.41        0.00166                        654795.75
4182973.41        0.00161
         654845.75    4182973.41        0.00156                        654895.75
4182973.41        0.00152
         654945.75    4182973.41        0.00148                        654995.75
4182973.41        0.00144
         655045.75    4182973.41        0.00140                        655095.75
4182973.41        0.00137
         652795.75    4183023.41        0.00117                        652845.75
4183023.41        0.00126
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                  PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
652895.75	4183023.41	0.00134	652945.75	4183023.41	0.00144
652995.75	4183023.41	0.00153	653045.75	4183023.41	0.00164
653095.75	4183023.41	0.00175	653145.75	4183023.41	0.00187
653195.75	4183023.41	0.00202	653245.75	4183023.41	0.00219
653295.75	4183023.41	0.00239	653345.75	4183023.41	0.00266
653395.75	4183023.41	0.00300	653445.75	4183023.41	0.00350
653495.75	4183023.41	0.00436	654295.75	4183023.41	0.00232
654345.75	4183023.41	0.00222	654395.75	4183023.41	0.00213
654445.75	4183023.41	0.00206	654495.75	4183023.41	0.00200
654545.75	4183023.41	0.00195	654595.75	4183023.41	0.00189
654645.75	4183023.41	0.00184	654695.75	4183023.41	0.00180
654745.75	4183023.41	0.00175	654795.75	4183023.41	0.00171
654845.75	4183023.41	0.00167	654895.75	4183023.41	0.00163
654945.75	4183023.41	0.00159	654995.75	4183023.41	0.00156

```
         655045.75    4183023.41        0.00152                    652795.75
4183073.41        0.00136
         652845.75    4183073.41        0.00147                    652895.75
4183073.41        0.00158
         652945.75    4183073.41        0.00169                    652995.75
4183073.41        0.00180
         653045.75    4183073.41        0.00191                    653095.75
4183073.41        0.00202
         654345.75    4183073.41        0.00213                    654395.75
4183073.41        0.00211
         654445.75    4183073.41        0.00209                    654495.75
4183073.41        0.00208
         654545.75    4183073.41        0.00205                    654595.75
4183073.41        0.00203
         654645.75    4183073.41        0.00200                    654695.75
4183073.41        0.00196
         654745.75    4183073.41        0.00193                    654795.75
4183073.41        0.00189
         654845.75    4183073.41        0.00185                    654895.75
4183073.41        0.00182
         654945.75    4183073.41        0.00178                    654995.75
4183073.41        0.00175
         655045.75    4183073.41        0.00172                    653595.75
4183123.41        0.00495
         654895.75    4183123.41        0.00217                    654945.75
4183123.41        0.00214
         654445.75    4183273.41        0.00333                    654495.75
4183273.41        0.00331
         654545.75    4183273.41        0.00330                    654595.75
4183273.41        0.00329
         654645.75    4183273.41        0.00331                    654695.75
4183273.41        0.00335
         654745.75    4183273.41        0.00340                    654795.75
4183273.41        0.00346
         654845.75    4183273.41        0.00352                    654895.75
4183273.41        0.00358
         654945.75    4183273.41        0.00364                    654345.75
4183323.41        0.00209
         654395.75    4183323.41        0.00206                    654445.75
4183323.41        0.00203
         654495.75    4183323.41        0.00201                    654545.75
4183323.41        0.00199
         654595.75    4183323.41        0.00198                    654645.75
4183323.41        0.00197
         654695.75    4183323.41        0.00197                    654745.75
4183323.41        0.00197
         654795.75    4183323.41        0.00197                    654845.75
4183323.41        0.00197
         654895.75    4183323.41        0.00197                    654945.75
4183323.41        0.00198
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
655095.75	4183323.41	0.00198	655145.75	4183323.41	0.00199
655195.75	4183323.41	0.00199	655245.75	4183323.41	0.00200
654295.75	4183373.41	0.00166	654345.75	4183373.41	0.00162
654395.75	4183373.41	0.00159	654795.75	4183373.41	0.00145
654845.75	4183373.41	0.00144	654895.75	4183373.41	0.00143
654945.75	4183373.41	0.00143	654995.75	4183373.41	0.00142
655045.75	4183373.41	0.00142	655095.75	4183373.41	0.00141
655145.75	4183373.41	0.00141	655195.75	4183373.41	0.00140
655245.75	4183373.41	0.00140	655295.75	4183373.41	0.00140
655345.75	4183373.41	0.00139	654295.75		

```
4183423.41        0.00139
         654395.75    4183423.41        0.00132                    654445.75
4183423.41        0.00129
         654495.75    4183423.41        0.00127                    654545.75
4183423.41        0.00125
         654595.75    4183423.41        0.00123                    654645.75
4183423.41        0.00121
         654695.75    4183423.41        0.00120                    654745.75
4183423.41        0.00118
         654795.75    4183423.41        0.00117                    654895.75
4183423.41        0.00115
         654945.75    4183423.41        0.00114                    654995.75
4183423.41        0.00113
         655045.75    4183423.41        0.00112                    655095.75
4183423.41        0.00112
         655145.75    4183423.41        0.00111                    655195.75
4183423.41        0.00110
         655245.75    4183423.41        0.00110                    655295.75
4183423.41        0.00109
         655345.75    4183423.41        0.00108                    655395.75
4183423.41        0.00108
         655445.75    4183423.41        0.00107                    655545.75
4183423.41        0.00105
         655595.75    4183423.41        0.00104                    654295.75
4183473.41        0.00120
         654345.75    4183473.41        0.00117                    654395.75
4183473.41        0.00114
         654445.75    4183473.41        0.00112                    654495.75
4183473.41        0.00110
         654545.75    4183473.41        0.00108                    654595.75
4183473.41        0.00106
         654645.75    4183473.41        0.00104                    654695.75
4183473.41        0.00102
         654745.75    4183473.41        0.00101                    654795.75
4183473.41        0.00099
         654845.75    4183473.41        0.00098                    654895.75
4183473.41        0.00097
         654945.75    4183473.41        0.00096                    655345.75
4183473.41        0.00089
         655395.75    4183473.41        0.00088                    655445.75
4183473.41        0.00087
         655495.75    4183473.41        0.00086                    655545.75
4183473.41        0.00085
         655595.75    4183473.41        0.00084                    655645.75
4183473.41        0.00083
         655695.75    4183473.41        0.00081                    655745.75
4183473.41        0.00079
         654195.75    4183523.41        0.00112                    654245.75
4183523.41        0.00109
         654295.75    4183523.41        0.00106                    654345.75
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333
, L0011334 , L0011335 , L0011336 ,
L0011337 , L0011338 , L0011339 , L0011340 , L0011341
, L0011342 , L0011343 , L0011344 ,
L0011345 , L0011346 , L0011347 , L0011348 , L0011349
, L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357
, L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
654895.75	4183523.41	0.00085	654945.75	4183523.41	0.00083
655295.75	4183523.41	0.00077	655345.75	4183523.41	0.00076
655395.75	4183523.41	0.00075	655445.75	4183523.41	0.00074
655495.75	4183523.41	0.00073	655545.75	4183523.41	0.00072
655595.75	4183523.41	0.00071	655645.75	4183523.41	0.00070

655695.75 4183523.41 0.00068 655745.75 4183523.41 0.00066
654145.75 4183573.41 0.00105 654195.75 4183573.41 0.00101
654245.75 4183573.41 0.00098 654295.75 4183573.41 0.00095
654345.75 4183573.41 0.00092 654395.75 4183573.41 0.00090
654445.75 4183573.41 0.00088 654495.75 4183573.41 0.00087
654545.75 4183573.41 0.00085 654595.75 4183573.41 0.00084
654645.75 4183573.41 0.00082 654695.75 4183573.41 0.00081
654745.75 4183573.41 0.00079 654795.75 4183573.41 0.00078
654845.75 4183573.41 0.00077 654895.75 4183573.41 0.00075
654945.75 4183573.41 0.00074 655295.75 4183573.41 0.00067
655345.75 4183573.41 0.00066 655395.75 4183573.41 0.00066
655445.75 4183573.41 0.00065 655495.75 4183573.41 0.00064
655545.75 4183573.41 0.00062 655595.75 4183573.41 0.00061
655645.75 4183573.41 0.00060 655695.75 4183573.41 0.00059
655745.75 4183573.41 0.00057 652295.75 4183623.41 0.00056
652345.75 4183623.41 0.00056 654145.75 4183623.41 0.00096
654195.75 4183623.41 0.00091 654245.75 4183623.41 0.00088
654295.75 4183623.41 0.00086 654345.75 4183623.41 0.00084
654195.75 4183673.41 0.00084 654245.75 4183673.41 0.00081
654295.75 4183673.41 0.00079 654345.75 4183673.41 0.00077
653845.75 4183723.41 0.00111 654245.75 4183723.41 0.00075
654295.75 4183723.41 0.00073 654345.75 4183723.41 0.00071
653845.75 4183773.41 0.00107 654045.75 4183773.41 0.00091
654095.75 4183773.41 0.00083 654145.75 4183773.41 0.00077
654195.75 4183773.41 0.00073 654245.75 4183773.41 0.00070

```
         654295.75    4183773.41        0.00068                      654345.75
4183773.41        0.00066
         653845.75    4183823.41        0.00103                      654045.75
4183823.41        0.00086
         654095.75    4183823.41        0.00078                      654145.75
4183823.41        0.00073
         654195.75    4183823.41        0.00069                      654245.75
4183823.41        0.00066
         654295.75    4183823.41        0.00064                      654345.75
4183823.41        0.00062
         653945.75    4183873.41        0.00124                      653995.75
4183873.41        0.00095
         654045.75    4183873.41        0.00082                      654095.75
4183873.41        0.00074
         654145.75    4183873.41        0.00069                      654195.75
4183873.41        0.00065
         654245.75    4183873.41        0.00062                      654295.75
4183873.41        0.00060
         654345.75    4183873.41        0.00058                      653845.75
4183923.41        0.00098
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                   PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         653945.75    4183923.41        0.00120                      653995.75
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4183923.41 0.00091
654045.75 4183923.41 0.00078 654095.75
4183923.41 0.00070
654145.75 4183923.41 0.00065 654195.75
4183923.41 0.00062
654245.75 4183923.41 0.00059 654295.75
4183923.41 0.00057
654345.75 4183923.41 0.00055 653745.75
4183973.41 0.00064
653745.75 4184023.41 0.00062 653795.75
4184023.41 0.00071
653845.75 4184023.41 0.00094 653945.75
4184023.41 0.00112
653995.75 4184023.41 0.00084 654045.75
4184023.41 0.00072
654095.75 4184023.41 0.00064 654145.75
4184023.41 0.00059
654195.75 4184023.41 0.00056 654245.75
4184023.41 0.00053
654295.75 4184023.41 0.00051 653745.75
4184073.41 0.00059
653795.75 4184073.41 0.00068 653845.75
4184073.41 0.00092
653945.75 4184073.41 0.00109 654095.75
4184073.41 0.00062
654145.75 4184073.41 0.00057 654195.75
4184073.41 0.00053
654245.75 4184073.41 0.00050 654295.75
4184073.41 0.00048
653745.75 4184123.41 0.00057 653795.75
4184123.41 0.00066
653845.75 4184123.41 0.00090 653945.75
4184123.41 0.00106
654095.75 4184123.41 0.00059 654145.75
4184123.41 0.00054
654195.75 4184123.41 0.00051 654245.75
4184123.41 0.00048
654295.75 4184123.41 0.00046 654345.75
4184123.41 0.00044
653745.75 4184173.41 0.00055 653795.75
4184173.41 0.00064
653845.75 4184173.41 0.00089 653945.75
4184173.41 0.00103
654095.75 4184173.41 0.00057 654145.75
4184173.41 0.00052
654195.75 4184173.41 0.00049 654245.75
4184173.41 0.00046
654295.75 4184173.41 0.00044 653745.75
4184223.41 0.00053
653795.75 4184223.41 0.00063 653845.75

```
4184223.41        0.00087
         653945.75    4184223.41        0.00100                      654095.75
4184223.41        0.00055
         654145.75    4184223.41        0.00050                      654195.75
4184223.41        0.00047
         654245.75    4184223.41        0.00044                      653745.75
4184273.41        0.00051
         653795.75    4184273.41        0.00061                      653845.75
4184273.41        0.00086
         653895.75    4184273.41        0.00134                      653945.75
4184273.41        0.00098
         653995.75    4184273.41        0.00072                      654095.75
4184273.41        0.00053
         654145.75    4184273.41        0.00048                      654195.75
4184273.41        0.00045
         654245.75    4184273.41        0.00042                      653745.75
4184323.41        0.00050
         653795.75    4184323.41        0.00060                      653845.75
4184323.41        0.00085
         653895.75    4184323.41        0.00164                      653945.75
4184323.41        0.00095
         654095.75    4184323.41        0.00051                      654145.75
4184323.41        0.00046
         654195.75    4184323.41        0.00043                      654245.75
4184323.41        0.00040
         653745.75    4184373.41        0.00048                      653795.75
4184373.41        0.00058
         653845.75    4184373.41        0.00085                      653895.75
4184373.41        0.00187
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                 PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
653945.75	4184373.41	0.00093	654095.75	4184373.41	0.00049
654145.75	4184373.41	0.00044	654195.75	4184373.41	0.00041
654245.75	4184373.41	0.00038	653745.75	4184423.41	0.00047
653795.75	4184423.41	0.00057	653845.75	4184423.41	0.00084
653895.75	4184423.41	0.00181	653945.75	4184423.41	0.00091
654095.75	4184423.41	0.00047	654145.75	4184423.41	0.00043
654195.75	4184423.41	0.00039	654245.75	4184423.41	0.00037
654295.75	4184423.41	0.00035	653745.75	4184473.41	0.00045
653795.75	4184473.41	0.00055	653845.75	4184473.41	0.00083
653895.75	4184473.41	0.00175	653945.75	4184473.41	0.00088
654095.75	4184473.41	0.00045	654145.75	4184473.41	0.00041
654195.75	4184473.41	0.00037	654245.75	4184473.41	0.00035
654295.75	4184473.41	0.00033	653745.75	4184523.41	0.00044
653795.75	4184523.41	0.00054	653845.75	4184523.41	0.00082
653895.75	4184523.41	0.00169	653945.75	4184523.41	0.00085
654095.75	4184523.41	0.00043	654145.75	4184523.41	0.00038
654195.75	4184523.41	0.00035	654245.75	4184523.41	0.00033
654295.75	4184523.41	0.00031	653645.75	4184573.41	0.00034
653695.75	4184573.41	0.00037	653745.75	4184573.41	0.00042
653795.75	4184573.41	0.00052	653845.75	4184573.41	0.00081
653895.75	4184573.41	0.00162	653945.75	4184573.41	0.00081

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         654095.75    4184573.41        0.00040                      654145.75
4184573.41        0.00036
         654195.75    4184573.41        0.00033                      654245.75
4184573.41        0.00031
         654295.75    4184573.41        0.00029                      653645.75
4184623.41        0.00032
         653695.75    4184623.41        0.00035                      653745.75
4184623.41        0.00040
         653795.75    4184623.41        0.00050                      653845.75
4184623.41        0.00079
         653895.75    4184623.41        0.00154                      653945.75
4184623.41        0.00076
         654095.75    4184623.41        0.00037                      654295.75
4184623.41        0.00028
         653645.75    4184673.41        0.00031                      653695.75
4184673.41        0.00033
         653745.75    4184673.41        0.00038                      653795.75
4184673.41        0.00047
         653845.75    4184673.41        0.00076                      653895.75
4184673.41        0.00144
         653945.75    4184673.41        0.00068                      653995.75
4184673.41        0.00047
         654045.75    4184673.41        0.00038                      654095.75
4184673.41        0.00033
         653645.75    4184723.41        0.00029                      653695.75
4184723.41        0.00031
         653745.75    4184723.41        0.00035                      653795.75
4184723.41        0.00042
         653845.75    4184723.41        0.00067                      653895.75
4184723.41        0.00119
         653945.75    4184723.41        0.00053                      653995.75
4184723.41        0.00039
         654045.75    4184723.41        0.00033                      654095.75
4184723.41        0.00030
         653745.75    4184773.41        0.00031                      653795.75
4184773.41        0.00036
         653845.75    4184773.41        0.00045                      653895.75
4184773.41        0.00042
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD (  8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL     ***
                                 INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
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                 L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                 L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                 L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         653945.75    4184773.41        0.00035                       653995.75
4184773.41        0.00031
         653745.75    4184823.41        0.00028                       653795.75
4184823.41        0.00030
         653845.75    4184823.41        0.00031                       653895.75
4184823.41        0.00029
         653945.75    4184823.41        0.00027                       653995.75
4184823.41        0.00026
         653745.75    4184873.41        0.00025                       653795.75
4184873.41        0.00026
         653845.75    4184873.41        0.00025                       653895.75
4184873.41        0.00025
         653945.75    4184873.41        0.00024                       653995.75
4184873.41        0.00023
         653745.75    4184923.41        0.00023                       653795.75
4184923.41        0.00023
         653845.75    4184923.41        0.00023                       653895.75
4184923.41        0.00022
         653945.75    4184923.41        0.00022                       653995.75
4184923.41        0.00021
         653745.75    4184973.41        0.00021                       653795.75
4184973.41        0.00021
         653845.75    4184973.41        0.00021                       653895.75
4184973.41        0.00020
         653945.75    4184973.41        0.00020                       653995.75
4184973.41        0.00020
         653745.75    4185023.41        0.00020                       653795.75
4185023.41        0.00020
         653845.75    4185023.41        0.00019                       653895.75
4185023.41        0.00019
         653945.75    4185023.41        0.00019                       653995.75
4185023.41        0.00019
         653745.75    4185073.41        0.00019                       653795.75
```

4185073.41   0.00018
         653845.75   4185073.41   0.00018   653895.75
4185073.41   0.00018
         653945.75   4185073.41   0.00018   653995.75
4185073.41   0.00018
         653745.75   4185123.41   0.00018   653795.75
4185123.41   0.00017
         653845.75   4185123.41   0.00017   653895.75
4185123.41   0.00017
         653945.75   4185123.41   0.00017   653995.75
4185123.41   0.00017
         653745.75   4185173.41   0.00017   653795.75
4185173.41   0.00017
         653845.75   4185173.41   0.00017   653895.75
4185173.41   0.00016
         653945.75   4185173.41   0.00016   653995.75
4185173.41   0.00016

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0011332   , L0011333
, L0011334   , L0011335   , L0011336   ,
                 L0011337   , L0011338   , L0011339   , L0011340   , L0011341
, L0011342   , L0011343   , L0011344   ,
                 L0011345   , L0011346   , L0011347   , L0011348   , L0011349
, L0011350   , L0011351   , L0011352   ,
                 L0011353   , L0011354   , L0011355   , L0011356   , L0011357
, L0011358   , L0011359   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        653895.75   4180773.41   0.00923 (17122418)   653945.75
4180773.41   0.01417 (17012524)
        653895.75   4180823.41   0.00946 (17122418)   653945.75
4180823.41   0.01468 (17012524)

653995.75 4180823.41 0.01295 (17121920) 654045.75
4180823.41 0.00984 (17020504)
654195.75 4180823.41 0.00780 (17122221) 654245.75
4180923.41 0.00812 (17021418)
654245.75 4180973.41 0.00837 (17021418) 653995.75
4181023.41 0.01343 (17121920)
653995.75 4181073.41 0.01366 (17121920) 654045.75
4181073.41 0.01117 (17020504)
653895.75 4181273.41 0.01250 (17012524) 653495.75
4181323.41 0.00967 (17012817)
653545.75 4181323.41 0.00959 (17122706) 653895.75
4181323.41 0.01317 (17012524)
653495.75 4181373.41 0.01039 (17012817) 653545.75
4181373.41 0.01036 (17122706)
653895.75 4181373.41 0.01373 (17012524) 653995.75
4181373.41 0.01579 (17020504)
653895.75 4181423.41 0.01421 (17012524) 653795.75
4181473.41 0.01250 (17123009)
653895.75 4181473.41 0.01448 (17012524) 653895.75
4181523.41 0.01486 (17012524)
654195.75 4181523.41 0.01291 (17011120) 653995.75
4181673.41 0.01785 (17020504)
653995.75 4181723.41 0.01835 (17020504) 654145.75
4181723.41 0.01520 (17011120)
654245.75 4181723.41 0.01415 (17020820) 653995.75
4181773.41 0.01891 (17120606)
653995.75 4181823.41 0.01976 (17122221) 654045.75
4181823.41 0.01835 (17021418)
653945.75 4182123.41 0.03324 (17021418) 653895.75
4182223.41 0.03151 (17020504)
654245.75 4182323.41 0.02670 (17012417) 653145.75
4182373.41 0.02036 (17020902)
653195.75 4182373.41 0.02210 (17020902) 653245.75
4182373.41 0.02294 (17020821)
653295.75 4182373.41 0.02428 (17022119) 653345.75
4182373.41 0.02572 (17011206)
653395.75 4182373.41 0.02732 (17011418) 653445.75
4182373.41 0.02980 (17122817)
653495.75 4182373.41 0.03140 (17122817) 653545.75
4182373.41 0.03291 (17122818)
653595.75 4182373.41 0.03653 (17122818) 653645.75
4182373.41 0.03808 (17122819)
653695.75 4182373.41 0.03873 (17011603) 653745.75
4182373.41 0.04141 (17012517)
653795.75 4182373.41 0.04444 (17011209) 653845.75
4182373.41 0.04612 (17020417)
653895.75 4182373.41 0.04412 (17021318) 654245.75
4182373.41 0.02934 (17120117)
653145.75 4182423.41 0.02161 (17020422) 653195.75
4182423.41 0.02256 (17020108)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 ,
L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 ,
L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653695.75	4182473.41	0.05191	(17122819)	653745.75	4182473.41	0.05420	(17012519)
653795.75	4182473.41	0.06084	(17012517)	653895.75	4182473.41	0.05908	(17022520)
654245.75	4182473.41	0.03440	(17021019)	653145.75	4182523.41	0.02483	(17020322)
653195.75	4182523.41	0.02700	(17020719)	653245.75	4182523.41	0.02876	(17020422)
653295.75	4182523.41	0.03053	(17020422)	653345.75	4182523.41	0.03199	(17020902)
653395.75	4182523.41	0.03578	(17020902)	653445.75	4182523.41	0.03849	(17022119)
653495.75	4182523.41	0.04105	(17011418)	653545.75	4182523.41	0.04746	(17122419)
653595.75	4182523.41	0.04940	(17122817)	653645.75	4182523.41	0.05690	(17122818)
653695.75	4182523.41	0.06060	(17122819)	653745.75	4182523.41	0.06361	(17012519)
653795.75	4182523.41	0.07384	(17012517)	653895.75	4182523.41	0.06958	(17022519)
653945.75	4182523.41	0.06888	(17012619)	654245.75	4182523.41	0.03687	(17021018)
653145.75	4182573.41	0.02683	(17020119)	653195.75	4182573.41	0.02849	(17020119)
653245.75	4182573.41	0.03060	(17020322)	653295.75	4182573.41	0.03404	(17020719)
653345.75	4182573.41	0.03653	(17020422)	653395.75	4182573.41	0.03830	(17020422)
653445.75	4182573.41	0.04281	(17020902)	653495.75	4182573.41	0.04742	(17020821)
653545.75	4182573.41	0.05061	(17011418)	653595.75	4182573.41	0.06012	(17122419)
653645.75	4182573.41	0.06210	(17122818)	653695.75	4182573.41	0.06945	(17122818)
653745.75	4182573.41	0.07539	(17012519)	653795.75	4182573.41	0.09250	(17012517)
653895.75	4182573.41	0.08929	(17022519)	653945.75	4182573.41	0.07978	(17011319)
653995.75	4182573.41	0.06912	(17010518)	654045.75	4182573.41	0.06152	(17120424)
654095.75	4182573.41	0.05524	(17021019)	654145.75	4182573.41	0.04895	(17021019)
654195.75	4182573.41	0.04426	(17021018)	654245.75	4182573.41	0.03863	(17121922)
653145.75	4182623.41	0.02675	(17020424)	653195.75			

4182623.41   0.02984 (17020119)
        653245.75   4182623.41   0.03354 (17020119)   653295.75
4182623.41   0.03685 (17020119)
        653345.75   4182623.41   0.03946 (17020719)   653395.75
4182623.41   0.04522 (17020719)
        653445.75   4182623.41   0.04875 (17020422)   653495.75
4182623.41   0.05226 (17011602)
        653545.75   4182623.41   0.06104 (17020821)   653595.75
4182623.41   0.06687 (17122419)
        653645.75   4182623.41   0.07794 (17122419)   653695.75
4182623.41   0.08733 (17122818)
        653745.75   4182623.41   0.09244 (17012502)   653795.75
4182623.41   0.12104 (17012517)
        653895.75   4182623.41   0.11097 (17012619)   653945.75
4182623.41   0.09480 (17010518)
        653995.75   4182623.41   0.08159 (17120424)   654045.75
4182623.41   0.07275 (17021019)
        654095.75   4182623.41   0.06247 (17021018)   654145.75
4182623.41   0.05368 (17010505)
        654195.75   4182623.41   0.04513 (17121922)   654245.75
4182623.41   0.03714 (17121922)
        653145.75   4182673.41   0.02763 (17020822)   653195.75
4182673.41   0.03052 (17020822)
        653245.75   4182673.41   0.03354 (17020822)   653295.75
4182673.41   0.03721 (17020323)
        653345.75   4182673.41   0.04401 (17020119)   653395.75
4182673.41   0.05075 (17020119)
        653445.75   4182673.41   0.05540 (17020119)   653495.75
4182673.41   0.06494 (17020719)
        653545.75   4182673.41   0.06956 (17020718)   653595.75
4182673.41   0.08214 (17020821)
        653645.75   4182673.41   0.09537 (17122419)   653695.75
4182673.41   0.10704 (17032007)
        653745.75   4182673.41   0.11882 (17122819)   653795.75
4182673.41   0.16863 (17012517)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0011332   , L0011333
, L0011334   , L0011335   , L0011336   ,
                L0011337   , L0011338   , L0011339   , L0011340   , L0011341
, L0011342   , L0011343   , L0011344   ,
                L0011345   , L0011346   , L0011347   , L0011348   , L0011349

, L0011350   , L0011351   , L0011352   ,
                L0011353   , L0011354   , L0011355   , L0011356   , L0011357
, L0011358   , L0011359   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        653895.75   4182673.41   0.13665 (17011319)   653945.75
4182673.41   0.11711 (17020418)
        653995.75   4182673.41   0.10133 (17021019)   654045.75
4182673.41   0.08303 (17021018)
        654095.75   4182673.41   0.06581 (17021008)   654145.75
4182673.41   0.05080 (17121922)
        654195.75   4182673.41   0.04169 (17121523)   654245.75
4182673.41   0.03649 (17121523)
        653145.75   4182723.41   0.02740 (17121802)   653195.75
4182723.41   0.03022 (17121802)
        653245.75   4182723.41   0.03354 (17011802)   653295.75
4182723.41   0.03813 (17020822)
        653345.75   4182723.41   0.04421 (17020822)   653395.75
4182723.41   0.05100 (17020822)
        653445.75   4182723.41   0.06033 (17020119)   653495.75
4182723.41   0.07545 (17020119)
        653545.75   4182723.41   0.08780 (17020119)   653595.75
4182723.41   0.10432 (17020719)
        653645.75   4182723.41   0.11763 (17020821)   653695.75
4182723.41   0.14952 (17122419)
        653745.75   4182723.41   0.16266 (17032007)   653795.75
4182723.41   0.25604 (17012517)
        653945.75   4182723.41   0.15261 (17021019)   653995.75
4182723.41   0.11288 (17010505)
        654045.75   4182723.41   0.07705 (17021008)   654095.75
4182723.41   0.06225 (17121523)
        654145.75   4182723.41   0.05104 (17022808)   654195.75
4182723.41   0.04293 (17022808)
        654245.75   4182723.41   0.03736 (17122309)   653145.75
4182773.41   0.02765 (17121723)
        653195.75   4182773.41   0.03079 (17121723)   653245.75
4182773.41   0.03467 (17121723)
        653295.75   4182773.41   0.03942 (17121723)   653345.75
4182773.41   0.04509 (17121723)
        653395.75   4182773.41   0.05196 (17121723)   653445.75
4182773.41   0.05999 (17121723)

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        653495.75   4182773.41        0.07240  (17020822)               653545.75
4182773.41        0.09133  (17020822)
        653595.75   4182773.41        0.12585  (17020119)               653645.75
4182773.41        0.17428  (17020119)
        653695.75   4182773.41        0.20610  (17020719)               653745.75
4182773.41        0.25255  (17122419)
        654095.75   4182773.41        0.06335  (17120423)               654145.75
4182773.41        0.05236  (17120423)
        654195.75   4182773.41        0.04374  (17120423)               654245.75
4182773.41        0.03748  (17021106)
        653145.75   4182823.41        0.02861  (17010209)               653195.75
4182823.41        0.03179  (17010209)
        653245.75   4182823.41        0.03571  (17010209)               653295.75
4182823.41        0.04053  (17010703)
        653345.75   4182823.41        0.04669  (17010703)               653395.75
4182823.41        0.05463  (17010703)
        653445.75   4182823.41        0.06519  (17010703)               653495.75
4182823.41        0.07969  (17010703)
        653545.75   4182823.41        0.10042  (17010703)               653595.75
4182823.41        0.13149  (17010703)
        653645.75   4182823.41        0.18179  (17010703)               653695.75
4182823.41        0.27455  (17121723)
        654145.75   4182823.41        0.05320  (17022823)               654195.75
4182823.41        0.04450  (17022823)
        654245.75   4182823.41        0.03799  (17022823)               652795.75
4182873.41        0.01720  (17012309)
        652845.75   4182873.41        0.01836  (17012309)               652895.75
4182873.41        0.01968  (17012309)
        652945.75   4182873.41        0.02114  (17012309)               652995.75
4182873.41        0.02282  (17012309)
        653045.75   4182873.41        0.02473  (17012309)               653095.75
4182873.41        0.02695  (17012309)
        653145.75   4182873.41        0.02951  (17012309)               653195.75
4182873.41        0.03254  (17012309)
        653245.75   4182873.41        0.03642  (17021424)               653295.75
4182873.41        0.04168  (17020717)
        653345.75   4182873.41        0.04873  (17020717)               653395.75
4182873.41        0.05784  (17020717)
        653445.75   4182873.41        0.06991  (17020717)               653495.75
4182873.41        0.08634  (17020717)
        653545.75   4182873.41        0.10914  (17020717)               653595.75
4182873.41        0.14345  (17021506)
        653645.75   4182873.41        0.21035  (17020121)               654195.75
4182873.41        0.04316  (17122421)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 ,
L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 ,
L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
654245.75	4182873.41	0.03688	(17122421)	654295.75	4182873.41	0.03205	(17121017)
654645.75	4182873.41	0.01718	(17011119)	654695.75	4182873.41	0.01602	(17011119)
654745.75	4182873.41	0.01500	(17011119)	654795.75	4182873.41	0.01409	(17011119)
654845.75	4182873.41	0.01327	(17011119)	654895.75	4182873.41	0.01256	(17122720)
654945.75	4182873.41	0.01195	(17122720)	654995.75	4182873.41	0.01141	(17122720)
652795.75	4182923.41	0.01671	(17020717)	652845.75	4182923.41	0.01807	(17020717)
652895.75	4182923.41	0.01962	(17020717)	652945.75	4182923.41	0.02131	(17020717)
652995.75	4182923.41	0.02329	(17020717)	653045.75	4182923.41	0.02553	(17020717)
653095.75	4182923.41	0.02809	(17020717)	653145.75	4182923.41	0.03102	(17020717)
653195.75	4182923.41	0.03437	(17020717)	653245.75	4182923.41	0.03824	(17020717)
653295.75	4182923.41	0.04266	(17020717)	653345.75	4182923.41	0.04907	(17021506)
653395.75	4182923.41	0.05733	(17021506)	653445.75	4182923.41	0.06930	(17020121)
653495.75	4182923.41	0.08400	(17020121)	653545.75	4182923.41	0.10367	(17021504)
653595.75	4182923.41	0.13244	(17010704)	654245.75			

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4182923.41        0.03677  (17020320)
        654295.75   4182923.41        0.03228  (17020320)                654345.75
4182923.41        0.02850  (17020320)
        654395.75   4182923.41        0.02536  (17123019)                654445.75
4182923.41        0.02325  (17123019)
        654495.75   4182923.41        0.02144  (17021220)                654545.75
4182923.41        0.01987  (17021220)
        654595.75   4182923.41        0.01848  (17021220)                654645.75
4182923.41        0.01722  (17021220)
        654695.75   4182923.41        0.01609  (17021220)                654745.75
4182923.41        0.01508  (17021220)
        654795.75   4182923.41        0.01417  (17021220)                654845.75
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        654895.75   4182923.41        0.01269  (17011119)                654945.75
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        653045.75   4182973.41        0.02446  (17021506)                653095.75
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4182973.41        0.03293  (17020121)
        653245.75   4182973.41        0.03748  (17020121)                653295.75
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        653345.75   4182973.41        0.04720  (17020121)                653395.75
4182973.41        0.05523  (17021504)
        653445.75   4182973.41        0.06382  (17021505)                653495.75
4182973.41        0.07560  (17121408)
        653545.75   4182973.41        0.09823  (17021608)                654295.75
4182973.41        0.03210  (17012917)
        654345.75   4182973.41        0.02830  (17012917)                654395.75
4182973.41        0.02505  (17021218)
        654445.75   4182973.41        0.02300  (17121117)                654495.75
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4182973.41        0.01419  (17123019)
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4182973.41        0.01273  (17123019)
        654945.75   4182973.41        0.01210  (17123019)                654995.75
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0011332   , L0011333
, L0011334   , L0011335   , L0011336   ,
                  L0011337   , L0011338   , L0011339   , L0011340   , L0011341
, L0011342   , L0011343   , L0011344   ,
                  L0011345   , L0011346   , L0011347   , L0011348   , L0011349
, L0011350   , L0011351   , L0011352   ,
                  L0011353   , L0011354   , L0011355   , L0011356   , L0011357
, L0011358   , L0011359   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
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4183023.41   0.02051 (17021506)
        652995.75   4183023.41   0.02235 (17020121)   653045.75
4183023.41   0.02457 (17020121)
        653095.75   4183023.41   0.02684 (17020121)   653145.75
4183023.41   0.02906 (17020121)
        653195.75   4183023.41   0.03191 (17021504)   653245.75
4183023.41   0.03588 (17021504)
        653295.75   4183023.41   0.03955 (17021504)   653345.75
4183023.41   0.04491 (17021505)
        653395.75   4183023.41   0.05124 (17021421)   653445.75
4183023.41   0.06191 (17021608)
        653495.75   4183023.41   0.07315 (17021608)   654295.75
4183023.41   0.03026 (17013017)
        654345.75   4183023.41   0.02758 (17012917)   654395.75
4183023.41   0.02545 (17012917)
        654445.75   4183023.41   0.02331 (17012917)   654495.75
4183023.41   0.02128 (17012917)

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        654545.75   4183023.41        0.01935  (17012917)              654595.75
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        654645.75   4183023.41        0.01708  (17013120)              654695.75
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4183023.41        0.01283  (17120821)
        654945.75   4183023.41        0.01218  (17120821)              654995.75
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        655045.75   4183023.41        0.01116  (17123019)              652795.75
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        652845.75   4183073.41        0.01783  (17020121)              652895.75
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        652945.75   4183073.41        0.02039  (17122523)              652995.75
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        653045.75   4183073.41        0.02362  (17120518)              653095.75
4183073.41        0.02582  (17021504)
        654345.75   4183073.41        0.02682  (17013017)              654395.75
4183073.41        0.02453  (17013017)
        654445.75   4183073.41        0.02216  (17013017)              654495.75
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        654845.75   4183073.41        0.01375  (17013120)              654895.75
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        654945.75   4183073.41        0.01247  (17013120)              654995.75
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        655045.75   4183073.41        0.01140  (17120821)              653595.75
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4183123.41        0.01278  (17122919)
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4183273.41        0.02738  (17011109)
        654545.75   4183273.41        0.02621  (17011109)              654595.75
4183273.41        0.02465  (17011109)
        654645.75   4183273.41        0.02318  (17122709)              654695.75
4183273.41        0.02252  (17120217)
        654745.75   4183273.41        0.02246  (17013017)              654795.75
4183273.41        0.02232  (17013017)
        654845.75   4183273.41        0.02205  (17013017)              654895.75
4183273.41        0.02173  (17013017)
        654945.75   4183273.41        0.02137  (17013017)              654345.75
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        654395.75   4183323.41        0.02375  (17012922)              654445.75
4183323.41        0.02297  (17012922)
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        654495.75   4183323.41        0.02241  (17013119)                654545.75
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4183323.41        0.02030  (17011109)
        654695.75   4183323.41        0.01906  (17011109)                654745.75
4183323.41        0.01773  (17011109)
        654795.75   4183323.41        0.01699  (17120217)                654845.75
4183323.41        0.01658  (17013017)
        654895.75   4183323.41        0.01640  (17013017)                654945.75
4183323.41        0.01613  (17013017)
        654995.75   4183323.41        0.01579  (17013017)                655045.75
4183323.41        0.01539  (17013017)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        09:09:29

                                   PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        655095.75   4183323.41        0.01495  (17013017)                655145.75
4183323.41        0.01448  (17013017)
        655195.75   4183323.41        0.01426  (17012917)                655245.75
4183323.41        0.01419  (17012917)
        654295.75   4183373.41        0.02354  (17120124)                654345.75
4183373.41        0.02224  (17011918)
        654395.75   4183373.41        0.02126  (17012809)                654795.75
4183373.41        0.01588  (17011109)
        654845.75   4183373.41        0.01478  (17011109)                654895.75
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654945.75 4183373.41 0.01366 (17120217) 654995.75
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4183373.41 0.01303 (17013017)
655145.75 4183373.41 0.01272 (17013017) 655195.75
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655245.75 4183373.41 0.01204 (17013017) 655295.75
4183373.41 0.01166 (17013017)
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4183423.41 0.02169 (17020904)
654395.75 4183423.41 0.01970 (17120205) 654445.75
4183423.41 0.01894 (17012809)
654495.75 4183423.41 0.01829 (17120122) 654545.75
4183423.41 0.01765 (17012922)
654595.75 4183423.41 0.01687 (17120718) 654645.75
4183423.41 0.01662 (17013119)
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4183423.41 0.01046 (17013017)
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4183423.41 0.01000 (17012917)
655595.75 4183423.41 0.00994 (17012917) 654295.75
4183473.41 0.02005 (17020124)
654345.75 4183473.41 0.01929 (17020904) 654395.75
4183473.41 0.01853 (17120124)
654445.75 4183473.41 0.01774 (17120205) 654495.75
4183473.41 0.01718 (17012809)
654545.75 4183473.41 0.01668 (17120122) 654595.75
4183473.41 0.01619 (17012922)
654645.75 4183473.41 0.01559 (17120718) 654695.75
4183473.41 0.01515 (17013119)
654745.75 4183473.41 0.01479 (17122322) 654795.75
4183473.41 0.01447 (17011109)
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4183473.41 0.01356 (17011109)
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4183473.41 0.01017 (17013017)
655395.75 4183473.41 0.01001 (17013017) 655445.75

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        655495.75   4183473.41        0.00958  (17013017)                655545.75
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        655595.75   4183473.41        0.00910  (17122219)                655645.75
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        654195.75   4183523.41        0.02097  (17121820)                654245.75
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        654295.75   4183523.41        0.01900  (17120123)                654345.75
4183523.41        0.01804  (17020124)
        654395.75   4183523.41        0.01785  (17020904)                654445.75
4183523.41        0.01724  (17120124)
        654495.75   4183523.41        0.01663  (17011918)                654545.75
4183523.41        0.01611  (17012809)
        654595.75   4183523.41        0.01553  (17120122)                654645.75
4183523.41        0.01499  (17012922)
        654695.75   4183523.41        0.01447  (17012922)                654745.75
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        654795.75   4183523.41        0.01360  (17013119)                654845.75
4183523.41        0.01324  (17122322)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                       ***        09:09:29

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
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654895.75 4183523.41 0.01303 (17011109) 654945.75
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654295.75 4183673.41 0.01688 (17121820) 654345.75
4183673.41 0.01612 (17120123)

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        653845.75   4183723.41        0.01827  (17020117)                654245.75
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        654195.75   4183773.41        0.01522  (17120204)                654245.75
4183773.41        0.01492  (17121905)
        654295.75   4183773.41        0.01466  (17121820)                654345.75
4183773.41        0.01432  (17121820)
        653845.75   4183823.41        0.01647  (17021222)                654045.75
4183823.41        0.01606  (17122822)
        654095.75   4183823.41        0.01555  (17021304)                654145.75
4183823.41        0.01447  (17120204)
        654195.75   4183823.41        0.01443  (17120204)                654245.75
4183823.41        0.01373  (17121905)
        654295.75   4183823.41        0.01362  (17121905)                654345.75
4183823.41        0.01351  (17121820)
        653945.75   4183873.41        0.01704  (17120719)                653995.75
4183873.41        0.01565  (17122703)
        654045.75   4183873.41        0.01537  (17122822)                654095.75
4183873.41        0.01489  (17021304)
        654145.75   4183873.41        0.01381  (17021304)                654195.75
4183873.41        0.01353  (17120204)
        654245.75   4183873.41        0.01296  (17120204)                654295.75
4183873.41        0.01273  (17121905)
        654345.75   4183873.41        0.01253  (17121820)                653845.75
4183923.41        0.01530  (17121917)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                   PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653945.75	4183923.41	0.01634	(17120719)	653995.75	4183923.41	0.01490	(17010124)
654045.75	4183923.41	0.01465	(17122822)	654095.75	4183923.41	0.01424	(17021304)
654145.75	4183923.41	0.01344	(17021304)	654195.75	4183923.41	0.01277	(17120204)
654245.75	4183923.41	0.01247	(17120204)	654295.75	4183923.41	0.01186	(17121905)
654345.75	4183923.41	0.01179	(17121905)	653745.75	4183973.41	0.01362	(17020906)
653745.75	4184023.41	0.01287	(17020906)	653795.75	4184023.41	0.01345	(17121917)
653845.75	4184023.41	0.01422	(17121917)	653945.75	4184023.41	0.01492	(17120719)
653995.75	4184023.41	0.01385	(17120719)	654045.75	4184023.41	0.01330	(17122703)
654095.75	4184023.41	0.01308	(17122822)	654145.75	4184023.41	0.01269	(17021304)
654195.75	4184023.41	0.01181	(17021304)	654245.75	4184023.41	0.01170	(17120204)
654295.75	4184023.41	0.01142	(17120204)	653745.75	4184073.41	0.01174	(17020906)
653795.75	4184073.41	0.01275	(17121917)	653845.75	4184073.41	0.01365	(17121917)
653945.75	4184073.41	0.01423	(17120719)	654095.75	4184073.41	0.01254	(17122822)
654145.75	4184073.41	0.01224	(17021304)	654195.75	4184073.41	0.01164	(17021304)
654245.75	4184073.41	0.01124	(17120204)	654295.75	4184073.41	0.01155	(17120204)
653745.75	4184123.41	0.01102	(17020906)	653795.75	4184123.41	0.01182	(17121917)
653845.75	4184123.41	0.01299	(17121917)	653945.75	4184123.41	0.01352	(17120719)
654095.75	4184123.41	0.01195	(17122822)	654145.75	4184123.41	0.01173	(17021304)
654195.75	4184123.41	0.01144	(17021304)	654245.75	4184123.41	0.01073	(17120204)
654295.75	4184123.41	0.01100	(17120204)	654345.75	4184123.41	0.01064	(17120204)
653745.75	4184173.41	0.01055	(17020906)	653795.75			

4184173.41 0.01108 (17121917)
  653845.75 4184173.41 0.01235 (17121917) 653945.75
4184173.41 0.01290 (17021222)
  654095.75 4184173.41 0.01137 (17013124) 654145.75
4184173.41 0.01122 (17122822)
  654195.75 4184173.41 0.01103 (17021304) 654245.75
4184173.41 0.01036 (17021304)
  654295.75 4184173.41 0.01025 (17120204) 653745.75
4184223.41 0.01018 (17020906)
  653795.75 4184223.41 0.01074 (17121917) 653845.75
4184223.41 0.01181 (17121917)
  653945.75 4184223.41 0.01241 (17021222) 654095.75
4184223.41 0.01084 (17013124)
  654145.75 4184223.41 0.01073 (17122822) 654195.75
4184223.41 0.01051 (17021304)
  654245.75 4184223.41 0.00999 (17021304) 653745.75
4184273.41 0.00975 (17020906)
  653795.75 4184273.41 0.01025 (17121917) 653845.75
4184273.41 0.01130 (17121917)
  653895.75 4184273.41 0.01491 (17021222) 653945.75
4184273.41 0.01188 (17021222)
  653995.75 4184273.41 0.01119 (17120719) 654095.75
4184273.41 0.01034 (17122703)
  654145.75 4184273.41 0.01024 (17122822) 654195.75
4184273.41 0.01001 (17021304)
  654245.75 4184273.41 0.00966 (17021304) 653745.75
4184323.41 0.00928 (17020906)
  653795.75 4184323.41 0.00974 (17121917) 653845.75
4184323.41 0.01080 (17121917)
  653895.75 4184323.41 0.01453 (17021222) 653945.75
4184323.41 0.01135 (17021222)
  654095.75 4184323.41 0.00987 (17122703) 654145.75
4184323.41 0.00977 (17122822)
  654195.75 4184323.41 0.00955 (17021304) 654245.75
4184323.41 0.00934 (17021304)
  653745.75 4184373.41 0.00889 (17020906) 653795.75
4184373.41 0.00933 (17121917)
  653845.75 4184373.41 0.01039 (17121917) 653895.75
4184373.41 0.01426 (17021222)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0011332   , L0011333

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, L0011334    , L0011335    , L0011336    ,
                L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        653945.75   4184373.41        0.01086  (17021222)               654095.75
4184373.41        0.00942  (17122703)
        654145.75   4184373.41        0.00931  (17122822)               654195.75
4184373.41        0.00918  (17122822)
        654245.75   4184373.41        0.00900  (17021304)               653745.75
4184423.41        0.00858  (17020906)
        653795.75   4184423.41        0.00901  (17121917)               653845.75
4184423.41        0.01008  (17121917)
        653895.75   4184423.41        0.01364  (17021222)               653945.75
4184423.41        0.01043  (17021222)
        654095.75   4184423.41        0.00897  (17122703)               654145.75
4184423.41        0.00889  (17013124)
        654195.75   4184423.41        0.00882  (17122822)               654245.75
4184423.41        0.00865  (17021304)
        654295.75   4184423.41        0.00836  (17021304)               653745.75
4184473.41        0.00830  (17020906)
        653795.75   4184473.41        0.00873  (17121917)               653845.75
4184473.41        0.00984  (17121917)
        653895.75   4184473.41        0.01314  (17021222)               653945.75
4184473.41        0.01008  (17021222)
        654095.75   4184473.41        0.00854  (17122703)               654145.75
4184473.41        0.00851  (17122703)
        654195.75   4184473.41        0.00846  (17122822)               654245.75
4184473.41        0.00829  (17021304)
        654295.75   4184473.41        0.00811  (17021304)               653745.75
4184523.41        0.00802  (17020906)
        653795.75   4184523.41        0.00847  (17121917)               653845.75
4184523.41        0.00964  (17121917)
        653895.75   4184523.41        0.01270  (17021222)               653945.75
4184523.41        0.00976  (17021222)
        654095.75   4184523.41        0.00823  (17011706)               654145.75
4184523.41        0.00817  (17122703)
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        654195.75   4184523.41        0.00811  (17122822)                654245.75
4184523.41        0.00795  (17122822)
        654295.75   4184523.41        0.00784  (17021304)                653645.75
4184573.41        0.00731  (17021618)
        653695.75   4184573.41        0.00756  (17020906)                653745.75
4184573.41        0.00774  (17020906)
        653795.75   4184573.41        0.00820  (17121917)                653845.75
4184573.41        0.00941  (17121917)
        653895.75   4184573.41        0.01218  (17021222)                653945.75
4184573.41        0.00945  (17021222)
        654095.75   4184573.41        0.00795  (17120719)                654145.75
4184573.41        0.00785  (17122703)
        654195.75   4184573.41        0.00777  (17122822)                654245.75
4184573.41        0.00768  (17122822)
        654295.75   4184573.41        0.00756  (17021304)                653645.75
4184623.41        0.00705  (17021618)
        653695.75   4184623.41        0.00729  (17020906)                653745.75
4184623.41        0.00747  (17020906)
        653795.75   4184623.41        0.00791  (17121917)                653845.75
4184623.41        0.00916  (17121917)
        653895.75   4184623.41        0.01169  (17021222)                653945.75
4184623.41        0.00912  (17021222)
        654095.75   4184623.41        0.00771  (17120719)                654295.75
4184623.41        0.00728  (17021304)
        653645.75   4184673.41        0.00680  (17021618)                653695.75
4184673.41        0.00704  (17020906)
        653745.75   4184673.41        0.00722  (17020906)                653795.75
4184673.41        0.00767  (17121917)
        653845.75   4184673.41        0.00898  (17121917)                653895.75
4184673.41        0.01121  (17021222)
        653945.75   4184673.41        0.00879  (17021222)                653995.75
4184673.41        0.00803  (17021222)
        654045.75   4184673.41        0.00778  (17120719)                654095.75
4184673.41        0.00747  (17120719)
        653645.75   4184723.41        0.00661  (17021618)                653695.75
4184723.41        0.00684  (17020906)
        653745.75   4184723.41        0.00702  (17020906)                653795.75
4184723.41        0.00748  (17121917)
        653845.75   4184723.41        0.00877  (17121917)                653895.75
4184723.41        0.01064  (17021222)
        653945.75   4184723.41        0.00843  (17021222)                653995.75
4184723.41        0.00774  (17021222)
        654045.75   4184723.41        0.00750  (17120719)                654095.75
4184723.41        0.00723  (17120719)
        653745.75   4184773.41        0.00682  (17020906)                653795.75
4184773.41        0.00724  (17121917)
        653845.75   4184773.41        0.00848  (17121917)                653895.75
4184773.41        0.00977  (17010617)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0011332   , L0011333 , L0011334   , L0011335   , L0011336   ,
                                 L0011337   , L0011338   , L0011339   , L0011340   , L0011341 , L0011342   , L0011343   , L0011344   ,
                                 L0011345   , L0011346   , L0011347   , L0011348   , L0011349 , L0011350   , L0011351   , L0011352   ,
                                 L0011353   , L0011354   , L0011355   , L0011356   , L0011357 , L0011358   , L0011359   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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4184973.41        0.00707  (17020117)
        653945.75   4184973.41        0.00668  (17021003)                653995.75
4184973.41        0.00647  (17021222)
        653745.75   4185023.41        0.00570  (17020906)                653795.75
4185023.41        0.00603  (17121917)
        653845.75   4185023.41        0.00650  (17020117)                653895.75
4185023.41        0.00673  (17020117)
        653945.75   4185023.41        0.00643  (17021003)                653995.75
4185023.41        0.00624  (17021222)
        653745.75   4185073.41        0.00549  (17020906)                653795.75
4185073.41        0.00579  (17121917)
        653845.75   4185073.41        0.00624  (17020117)                653895.75
4185073.41        0.00643  (17020117)
        653945.75   4185073.41        0.00619  (17020117)                653995.75
4185073.41        0.00602  (17021222)
        653745.75   4185123.41        0.00530  (17020906)                653795.75
4185123.41        0.00557  (17121917)
        653845.75   4185123.41        0.00600  (17020117)                653895.75
4185123.41        0.00617  (17020117)
        653945.75   4185123.41        0.00598  (17020117)                653995.75
4185123.41        0.00581  (17021222)
        653745.75   4185173.41        0.00515  (17020906)                653795.75
4185173.41        0.00540  (17121917)
        653845.75   4185173.41        0.00579  (17020117)                653895.75
4185173.41        0.00594  (17020117)
        653945.75   4185173.41        0.00578  (17020117)                653995.75
4185173.41        0.00560  (17021222)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653895.75	4180773.41	0.00271	(17012824)	653945.75	4180773.41	0.00553	(17122924)
653895.75	4180823.41	0.00281	(17012824)	653945.75	4180823.41	0.00585	(17122924)
653995.75	4180823.41	0.00404	(17011224)	654045.75	4180823.41	0.00248	(17011224)
654195.75	4180823.41	0.00154	(17081924)	654245.75	4180923.41	0.00163	(17081924)
654245.75	4180973.41	0.00169	(17081924)	653995.75	4181023.41	0.00397	(17011224)
653995.75	4181073.41	0.00397	(17011224)	654045.75	4181073.41	0.00262	(17011224)
653895.75	4181273.41	0.00353	(17012824)	653495.75	4181323.41	0.00168	(17012824)
653545.75	4181323.41	0.00184	(17012824)	653895.75	4181323.41	0.00366	(17012824)
653495.75	4181373.41	0.00174	(17012824)	653545.75	4181373.41	0.00193	(17012824)
653895.75	4181373.41	0.00378	(17012824)	653995.75	4181373.41	0.00398	(17011224)
653895.75	4181423.41	0.00389	(17012824)	653795.75	4181473.41	0.00282	(17012824)
653895.75	4181473.41	0.00398	(17012824)	653895.75	4181523.41	0.00412	(17012824)
654195.75	4181523.41	0.00268	(17081924)	653995.75	4181673.41	0.00429m	(17111424)
653995.75	4181723.41	0.00440m	(17111424)	654145.75	4181723.41	0.00327	(17081924)
654245.75	4181723.41	0.00307m	(17111424)	653995.75	4181773.41	0.00453m	(17111424)
653995.75	4181823.41	0.00469m	(17111424)	654045.75	4181823.41	0.00398m	(17111424)
653945.75	4182123.41	0.00931	(17122924)	653895.75	4182223.41	0.00737	(17012824)
654245.75	4182323.41	0.00785m	(17121624)	653145.75	4182373.41	0.00385c	(17121024)
653195.75	4182373.41	0.00395c	(17121024)	653245.75	4182373.41	0.00392c	(17121024)
653295.75	4182373.41	0.00375c	(17121024)	653345.75	4182373.41	0.00401	(17122824)
653395.75	4182373.41	0.00444	(17122824)	653445.75	4182373.41	0.00487	(17122824)
653495.75	4182373.41	0.00526	(17122824)	653545.75	4182373.41	0.00559	(17122824)

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        653595.75   4182373.41        0.00585  (17122824)               653645.75
4182373.41        0.00591  (17051124)
        653695.75   4182373.41        0.00728  (17012824)               653745.75
4182373.41        0.00855  (17012824)
        653795.75   4182373.41        0.00934  (17012524)               653845.75
4182373.41        0.00886  (17012524)
        653895.75   4182373.41        0.00973m (17111424)               654245.75
4182373.41        0.00889m (17121624)
        653145.75   4182423.41        0.00407c (17121024)               653195.75
4182423.41        0.00434c (17121024)
        653245.75   4182423.41        0.00451c (17121024)               653295.75
4182423.41        0.00453c (17121024)
        653345.75   4182423.41        0.00435c (17121024)               653395.75
4182423.41        0.00465  (17122824)
        653445.75   4182423.41        0.00527  (17122824)               653495.75
4182423.41        0.00582  (17122824)
        653545.75   4182423.41        0.00629  (17122824)               653595.75
4182423.41        0.00667  (17122824)
        653645.75   4182423.41        0.00684  (17122824)               653695.75
4182423.41        0.00791  (17012824)
        653745.75   4182423.41        0.00963  (17012824)               653795.75
4182423.41        0.01070  (17012524)
        653845.75   4182423.41        0.00986  (17012524)               653895.75
4182423.41        0.01123m (17111424)
        654245.75   4182423.41        0.00954  (17010524)               653145.75
4182473.41        0.00414c (17121024)
        653195.75   4182473.41        0.00456c (17121024)               653245.75
4182473.41        0.00494c (17121024)
        653295.75   4182473.41        0.00523c (17121024)               653345.75
4182473.41        0.00532c (17121024)
        653395.75   4182473.41        0.00513c (17121024)               653445.75
4182473.41        0.00551  (17122824)
        653495.75   4182473.41        0.00632  (17122824)               653545.75
4182473.41        0.00705  (17122824)
        653595.75   4182473.41        0.00766  (17122824)               653645.75
4182473.41        0.00802  (17122824)
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0011332   , L0011333   , L0011334   , L0011335   , L0011336   ,
                  L0011337   , L0011338   , L0011339   , L0011340   , L0011341   , L0011342   , L0011343   , L0011344   ,

L0011345 , L0011346 , L0011347 , L0011348 , L0011349
, L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357
, L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653695.75	4182473.41	0.00858	(17012824)	653745.75	4182473.41	0.01095	(17012824)
653795.75	4182473.41	0.01252	(17012524)	653895.75	4182473.41	0.01337m	(17111424)
654245.75	4182473.41	0.01141	(17010524)	653145.75	4182523.41	0.00471	(17121224)
653195.75	4182523.41	0.00485	(17121224)	653245.75	4182523.41	0.00512c	(17121024)
653295.75	4182523.41	0.00568c	(17121024)	653345.75	4182523.41	0.00613c	(17121024)
653395.75	4182523.41	0.00634c	(17121024)	653445.75	4182523.41	0.00617c	(17121024)
653495.75	4182523.41	0.00665	(17122824)	653545.75	4182523.41	0.00778	(17122824)
653595.75	4182523.41	0.00879	(17122824)	653645.75	4182523.41	0.00951	(17122824)
653695.75	4182523.41	0.00992	(17051124)	653745.75	4182523.41	0.01260	(17012524)
653795.75	4182523.41	0.01496	(17012524)	653895.75	4182523.41	0.01638m	(17111424)
653945.75	4182523.41	0.01699m	(17111424)	654245.75	4182523.41	0.01284	(17010524)
653145.75	4182573.41	0.00544	(17121224)	653195.75	4182573.41	0.00571	(17121224)
653245.75	4182573.41	0.00596	(17121224)	653295.75	4182573.41	0.00618	(17121224)
653345.75	4182573.41	0.00657c	(17121024)	653395.75	4182573.41	0.00728c	(17121024)
653445.75	4182573.41	0.00773c	(17121024)	653495.75	4182573.41	0.00764c	(17121024)
653545.75	4182573.41	0.00833	(17122824)	653595.75	4182573.41	0.00995	(17122824)
653645.75	4182573.41	0.01132	(17122824)	653695.75	4182573.41	0.01215	(17051124)
653745.75	4182573.41	0.01469	(17012524)	653795.75			

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4182573.41        0.01837  (17012524)
        653895.75   4182573.41        0.02060m (17111424)                653945.75
4182573.41        0.02011m (17111424)
        653995.75   4182573.41        0.02136m (17121624)                654045.75
4182573.41        0.02093m (17121624)
        654095.75   4182573.41        0.01909  (17010524)                654145.75
4182573.41        0.01775  (17010524)
        654195.75   4182573.41        0.01557  (17010524)                654245.75
4182573.41        0.01317  (17010524)
        653145.75   4182623.41        0.00619  (17121224)                653195.75
4182623.41        0.00661  (17121224)
        653245.75   4182623.41        0.00704  (17121224)                653295.75
4182623.41        0.00750  (17121224)
        653345.75   4182623.41        0.00792  (17121224)                653395.75
4182623.41        0.00823  (17121224)
        653445.75   4182623.41        0.00880c (17121024)                653495.75
4182623.41        0.00968c (17121024)
        653545.75   4182623.41        0.00978c (17121024)                653595.75
4182623.41        0.01081  (17122824)
        653645.75   4182623.41        0.01328  (17122824)                653695.75
4182623.41        0.01498  (17122824)
        653745.75   4182623.41        0.01714  (17012524)                653795.75
4182623.41        0.02332  (17012524)
        653895.75   4182623.41        0.02662m (17111424)                653945.75
4182623.41        0.02865m (17121624)
        653995.75   4182623.41        0.02896m (17121624)                654045.75
4182623.41        0.02605  (17010524)
        654095.75   4182623.41        0.02306  (17010524)                654145.75
4182623.41        0.01906  (17010524)
        654195.75   4182623.41        0.01525  (17010524)                654245.75
4182623.41        0.01364  (17022824)
        653145.75   4182673.41        0.00688  (17121224)                653195.75
4182673.41        0.00747  (17121224)
        653245.75   4182673.41        0.00813  (17121224)                653295.75
4182673.41        0.00886  (17121224)
        653345.75   4182673.41        0.00966  (17121224)                653395.75
4182673.41        0.01048  (17121224)
        653445.75   4182673.41        0.01121  (17121224)                653495.75
4182673.41        0.01174  (17020124)
        653545.75   4182673.41        0.01236c (17121024)                653595.75
4182673.41        0.01295c (17121024)
        653645.75   4182673.41        0.01472  (17122824)                653695.75
4182673.41        0.01875  (17122824)
        653745.75   4182673.41        0.02336  (17051124)                653795.75
4182673.41        0.03092  (17012524)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653895.75	4182673.41	0.03840m	(17121624)	653945.75	4182673.41	0.04387m	(17121624)
653995.75	4182673.41	0.03802	(17010524)	654045.75	4182673.41	0.03088	(17010524)
654095.75	4182673.41	0.02334	(17010524)	654145.75	4182673.41	0.01967	(17022824)
654195.75	4182673.41	0.01691	(17022824)	654245.75	4182673.41	0.01449	(17022824)
653145.75	4182723.41	0.00740	(17121224)	653195.75	4182723.41	0.00814	(17121224)
653245.75	4182723.41	0.00900	(17121224)	653295.75	4182723.41	0.01005	(17121224)
653345.75	4182723.41	0.01126	(17121224)	653395.75	4182723.41	0.01265	(17121224)
653445.75	4182723.41	0.01416	(17121224)	653495.75	4182723.41	0.01575	(17121224)
653545.75	4182723.41	0.01707	(17121224)	653595.75	4182723.41	0.01873	(17020124)
653645.75	4182723.41	0.01848	(17020124)	653695.75	4182723.41	0.02248	(17080124)
653745.75	4182723.41	0.03474	(17051124)	653795.75	4182723.41	0.04832	(17081924)
653945.75	4182723.41	0.06160	(17010524)	653995.75	4182723.41	0.04216	(17010524)
654045.75	4182723.41	0.03186	(17022824)	654095.75	4182723.41	0.02569	(17022824)

654145.75 4182723.41 0.02081 (17022824) 654195.75 4182723.41 0.01702 (17022824)
654245.75 4182723.41 0.01410 (17022824) 653145.75 4182773.41 0.00754 (17121224)
653195.75 4182773.41 0.00837 (17121224) 653245.75 4182773.41 0.00939 (17121224)
653295.75 4182773.41 0.01065 (17121224) 653345.75 4182773.41 0.01215 (17121224)
653395.75 4182773.41 0.01400 (17121224) 653445.75 4182773.41 0.01624 (17121224)
653495.75 4182773.41 0.01900 (17121224) 653545.75 4182773.41 0.02230 (17121224)
653595.75 4182773.41 0.02592 (17121224) 653645.75 4182773.41 0.03072 (17020124)
653695.75 4182773.41 0.03515 (17020124) 653745.75 4182773.41 0.05126 (17080124)
654095.75 4182773.41 0.02450 (17022824) 654145.75 4182773.41 0.01899 (17022824)
654195.75 4182773.41 0.01520 (17111824) 654245.75 4182773.41 0.01305 (17111824)
653145.75 4182823.41 0.00839 (17011624) 653195.75 4182823.41 0.00934 (17011624)
653245.75 4182823.41 0.01051 (17011624) 653295.75 4182823.41 0.01194 (17011624)
653345.75 4182823.41 0.01372 (17011624) 653395.75 4182823.41 0.01598 (17011624)
653445.75 4182823.41 0.01894 (17011624) 653495.75 4182823.41 0.02295 (17011624)
653545.75 4182823.41 0.02856 (17011624) 653595.75 4182823.41 0.03640 (17011624)
653645.75 4182823.41 0.04806 (17011624) 653695.75 4182823.41 0.06546 (17011624)
654145.75 4182823.41 0.01861 (17021224) 654195.75 4182823.41 0.01567 (17021224)
654245.75 4182823.41 0.01343 (17021224) 652795.75 4182873.41 0.00507 (17011624)
652845.75 4182873.41 0.00544 (17011624) 652895.75 4182873.41 0.00585 (17011624)
652945.75 4182873.41 0.00632 (17011624) 652995.75 4182873.41 0.00685 (17011624)
653045.75 4182873.41 0.00747 (17011624) 653095.75 4182873.41 0.00820 (17011624)
653145.75 4182873.41 0.00906 (17011624) 653195.75 4182873.41 0.01009 (17011624)
653245.75 4182873.41 0.01135 (17011624) 653295.75 4182873.41 0.01290 (17011624)
653345.75 4182873.41 0.01484 (17011624) 653395.75 4182873.41 0.01732 (17011624)
653445.75 4182873.41 0.02070 (17011524) 653495.75 4182873.41 0.02569 (17011524)

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0011332   , L0011333
, L0011334   , L0011335   , L0011336   ,
                 L0011337   , L0011338   , L0011339   , L0011340   , L0011341
, L0011342   , L0011343   , L0011344   ,
                 L0011345   , L0011346   , L0011347   , L0011348   , L0011349
, L0011350   , L0011351   , L0011352   ,
                 L0011353   , L0011354   , L0011355   , L0011356   , L0011357
, L0011358   , L0011359   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        654245.75   4182873.41   0.01359 (17021224)   654295.75
4182873.41   0.01187 (17021224)
        654645.75   4182873.41   0.00590 (17021224)   654695.75
4182873.41   0.00546 (17021224)
        654745.75   4182873.41   0.00508 (17021224)   654795.75
4182873.41   0.00475 (17021224)
        654845.75   4182873.41   0.00445 (17021224)   654895.75
4182873.41   0.00419 (17021224)
        654945.75   4182873.41   0.00395 (17021224)   654995.75
4182873.41   0.00375 (17021224)
        652795.75   4182923.41   0.00510 (17011624)   652845.75
4182923.41   0.00544 (17011624)
        652895.75   4182923.41   0.00584 (17011624)   652945.75
4182923.41   0.00626 (17011624)
        652995.75   4182923.41   0.00680 (17011524)   653045.75
4182923.41   0.00746 (17011524)
        653095.75   4182923.41   0.00824 (17011524)   653145.75

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4182923.41        0.00916  (17011524)
        653195.75   4182923.41        0.01025  (17011524)                653245.75
4182923.41        0.01158  (17011524)
        653295.75   4182923.41        0.01321  (17011524)                653345.75
4182923.41        0.01525  (17011524)
        653395.75   4182923.41        0.01783  (17011524)                653445.75
4182923.41        0.02118  (17011524)
        653495.75   4182923.41        0.02566  (17011524)                653545.75
4182923.41        0.03202  (17011524)
        653595.75   4182923.41        0.04376  (17011424)                654245.75
4182923.41        0.01157  (17021224)
        654295.75   4182923.41        0.01042  (17021224)                654345.75
4182923.41        0.00944  (17021224)
        654395.75   4182923.41        0.00859  (17021224)                654445.75
4182923.41        0.00785  (17021224)
        654495.75   4182923.41        0.00721  (17021224)                654545.75
4182923.41        0.00665  (17021224)
        654595.75   4182923.41        0.00616  (17021224)                654645.75
4182923.41        0.00572  (17021224)
        654695.75   4182923.41        0.00533  (17021224)                654745.75
4182923.41        0.00499  (17021224)
        654795.75   4182923.41        0.00468  (17021224)                654845.75
4182923.41        0.00441  (17021224)
        654895.75   4182923.41        0.00416  (17021224)                654945.75
4182923.41        0.00395  (17021224)
        654995.75   4182923.41        0.00375  (17021224)                655045.75
4182923.41        0.00358  (17021224)
        655095.75   4182923.41        0.00342  (17021224)                652795.75
4182973.41        0.00512  (17011524)
        652845.75   4182973.41        0.00550  (17011524)                652895.75
4182973.41        0.00593  (17011524)
        652945.75   4182973.41        0.00641  (17011524)                652995.75
4182973.41        0.00696  (17011524)
        653045.75   4182973.41        0.00759  (17011524)                653095.75
4182973.41        0.00831  (17011524)
        653145.75   4182973.41        0.00913  (17011524)                653195.75
4182973.41        0.01011  (17011524)
        653245.75   4182973.41        0.01125  (17011524)                653295.75
4182973.41        0.01261  (17011524)
        653345.75   4182973.41        0.01424  (17011524)                653395.75
4182973.41        0.01622  (17011524)
        653445.75   4182973.41        0.01868  (17011524)                653495.75
4182973.41        0.02300  (17011424)
        653545.75   4182973.41        0.03269  (17011424)                654295.75
4182973.41        0.00818  (17111824)
        654345.75   4182973.41        0.00757  (17021224)                654395.75
4182973.41        0.00713  (17021224)
        654445.75   4182973.41        0.00671  (17021224)                654495.75
4182973.41        0.00631  (17021224)
        654545.75   4182973.41        0.00593  (17021224)                654595.75
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4182973.41 0.00559 (17021224)
  654645.75 4182973.41 0.00527 (17021224) 654695.75
4182973.41 0.00497 (17021224)
  654745.75 4182973.41 0.00471 (17021224) 654795.75
4182973.41 0.00446 (17021224)
  654845.75 4182973.41 0.00424 (17021224) 654895.75
4182973.41 0.00403 (17021224)
  654945.75 4182973.41 0.00385 (17021224) 654995.75
4182973.41 0.00368 (17021224)
  655045.75 4182973.41 0.00353 (17021224) 655095.75
4182973.41 0.00339 (17021224)
  652795.75 4183023.41 0.00517 (17011524) 652845.75
4183023.41 0.00554 (17011524)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 ,
L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 ,
L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
652895.75	4183023.41	0.00594	(17011524)	652945.75	4183023.41	0.00636	(17011524)
652995.75	4183023.41	0.00684	(17011524)	653045.75	4183023.41	0.00737	(17011524)
653095.75	4183023.41	0.00795	(17011524)	653145.75	4183023.41	0.00861	(17011524)
653195.75	4183023.41	0.00937	(17011524)	653245.75	4183023.41	0.01022	(17011524)

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        653295.75   4183023.41        0.01120  (17011524)               653345.75
4183023.41        0.01258b (17120824)
        653395.75   4183023.41        0.01529b (17120824)               653445.75
4183023.41        0.01857b (17120824)
        653495.75   4183023.41        0.02363  (17011424)               654295.75
4183023.41        0.00796  (17122324)
        654345.75   4183023.41        0.00716  (17122324)               654395.75
4183023.41        0.00651  (17122324)
        654445.75   4183023.41        0.00597  (17122324)               654495.75
4183023.41        0.00550  (17122324)
        654545.75   4183023.41        0.00510  (17122324)               654595.75
4183023.41        0.00483  (17021224)
        654645.75   4183023.41        0.00465  (17021224)               654695.75
4183023.41        0.00447  (17021224)
        654745.75   4183023.41        0.00430  (17021224)               654795.75
4183023.41        0.00414  (17021224)
        654845.75   4183023.41        0.00399  (17021224)               654895.75
4183023.41        0.00384  (17021224)
        654945.75   4183023.41        0.00371  (17021224)               654995.75
4183023.41        0.00358  (17021224)
        655045.75   4183023.41        0.00346  (17021224)               652795.75
4183073.41        0.00522  (17011524)
        652845.75   4183073.41        0.00554  (17011524)               652895.75
4183073.41        0.00588  (17011524)
        652945.75   4183073.41        0.00624  (17011524)               652995.75
4183073.41        0.00663  (17011524)
        653045.75   4183073.41        0.00704  (17011524)               653095.75
4183073.41        0.00748  (17011524)
        654345.75   4183073.41        0.00721  (17122324)               654395.75
4183073.41        0.00670  (17122324)
        654445.75   4183073.41        0.00624  (17122324)               654495.75
4183073.41        0.00582  (17122324)
        654545.75   4183073.41        0.00546  (17122324)               654595.75
4183073.41        0.00514  (17122324)
        654645.75   4183073.41        0.00487  (17122324)               654695.75
4183073.41        0.00463  (17122324)
        654745.75   4183073.41        0.00441  (17122324)               654795.75
4183073.41        0.00422  (17122324)
        654845.75   4183073.41        0.00404  (17122324)               654895.75
4183073.41        0.00388  (17122324)
        654945.75   4183073.41        0.00374  (17122324)               654995.75
4183073.41        0.00361  (17122324)
        655045.75   4183073.41        0.00349  (17122324)               653595.75
4183123.41        0.02051  (17012124)
        654895.75   4183123.41        0.00457  (17122324)               654945.75
4183123.41        0.00442  (17122324)
        654445.75   4183273.41        0.00968m (17120224)               654495.75
4183273.41        0.00954m (17120224)
        654545.75   4183273.41        0.00943m (17120224)               654595.75
4183273.41        0.00931m (17120224)
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        654645.75   4183273.41        0.00927m (17120224)                654695.75
4183273.41        0.00931m (17120224)
        654745.75   4183273.41        0.00937m (17120224)                654795.75
4183273.41        0.00944m (17120224)
        654845.75   4183273.41        0.00953m (17120224)                654895.75
4183273.41        0.00964m (17120224)
        654945.75   4183273.41        0.00975m (17120224)                654345.75
4183323.41        0.00641m (17120224)
        654395.75   4183323.41        0.00641m (17120224)                654445.75
4183323.41        0.00636m (17120224)
        654495.75   4183323.41        0.00627m (17120224)                654545.75
4183323.41        0.00617m (17120224)
        654595.75   4183323.41        0.00608m (17120224)                654645.75
4183323.41        0.00601m (17120224)
        654695.75   4183323.41        0.00595m (17120224)                654745.75
4183323.41        0.00590m (17120224)
        654795.75   4183323.41        0.00585m (17120224)                654845.75
4183323.41        0.00582m (17120224)
        654895.75   4183323.41        0.00579m (17120224)                654945.75
4183323.41        0.00575m (17120224)
        654995.75   4183323.41        0.00572m (17120224)                655045.75
4183323.41        0.00567m (17120224)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0011332    , L0011333
, L0011334    , L0011335    , L0011336    ,
                  L0011337    , L0011338    , L0011339    , L0011340    , L0011341
, L0011342    , L0011343    , L0011344    ,
                  L0011345    , L0011346    , L0011347    , L0011348    , L0011349
, L0011350    , L0011351    , L0011352    ,
                  L0011353    , L0011354    , L0011355    , L0011356    , L0011357
, L0011358    , L0011359    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        655095.75   4183323.41        0.00564m (17120224)                655145.75
4183323.41        0.00562m (17120224)
        655195.75   4183323.41        0.00562m (17120224)                655245.75
4183323.41        0.00562m (17120224)
        654295.75   4183373.41        0.00515  (17010124)                654345.75
4183373.41        0.00509m (17120224)
        654395.75   4183373.41        0.00507m (17120224)                654795.75
4183373.41        0.00455m (17120224)
        654845.75   4183373.41        0.00450m (17120224)                654895.75
4183373.41        0.00445m (17120224)
        654945.75   4183373.41        0.00439m (17120224)                654995.75
4183373.41        0.00434m (17120224)
        655045.75   4183373.41        0.00430m (17120224)                655095.75
4183373.41        0.00425m (17120224)
        655145.75   4183373.41        0.00421m (17120224)                655195.75
4183373.41        0.00418m (17120224)
        655245.75   4183373.41        0.00415m (17120224)                655295.75
4183373.41        0.00412m (17120224)
        655345.75   4183373.41        0.00410m (17120224)                654295.75
4183423.41        0.00472  (17010124)
        654395.75   4183423.41        0.00429m (17120224)                654445.75
4183423.41        0.00425m (17120224)
        654495.75   4183423.41        0.00420m (17120224)                654545.75
4183423.41        0.00414m (17120224)
        654595.75   4183423.41        0.00408m (17120224)                654645.75
4183423.41        0.00401m (17120224)
        654695.75   4183423.41        0.00395m (17120224)                654745.75
4183423.41        0.00389m (17120224)
        654795.75   4183423.41        0.00383m (17120224)                654895.75
4183423.41        0.00372m (17120224)
        654945.75   4183423.41        0.00367m (17120224)                654995.75
4183423.41        0.00362m (17120224)
        655045.75   4183423.41        0.00358m (17120224)                655095.75
4183423.41        0.00354m (17120224)
        655145.75   4183423.41        0.00350m (17120224)                655195.75
4183423.41        0.00346m (17120224)
        655245.75   4183423.41        0.00342m (17120224)                655295.75
4183423.41        0.00339m (17120224)
        655345.75   4183423.41        0.00335m (17120224)                655395.75
4183423.41        0.00332m (17120224)
        655445.75   4183423.41        0.00329m (17120224)                655545.75
4183423.41        0.00322m (17120224)
        655595.75   4183423.41        0.00318m (17120224)                654295.75
4183473.41        0.00434  (17010124)
        654345.75   4183473.41        0.00412  (17010124)                654395.75
4183473.41        0.00392  (17010124)
        654445.75   4183473.41        0.00372m (17120224)                654495.75
4183473.41        0.00368m (17120224)
        654545.75   4183473.41        0.00364m (17120224)                654595.75
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4183473.41        0.00358m (17120224)
        654645.75   4183473.41        0.00352m (17120224)                654695.75
4183473.41        0.00347m (17120224)
        654745.75   4183473.41        0.00341m (17120224)                654795.75
4183473.41        0.00336m (17120224)
        654845.75   4183473.41        0.00330m (17120224)                654895.75
4183473.41        0.00326m (17120224)
        654945.75   4183473.41        0.00321m (17120224)                655345.75
4183473.41        0.00290m (17120224)
        655395.75   4183473.41        0.00286m (17120224)                655445.75
4183473.41        0.00283m (17120224)
        655495.75   4183473.41        0.00279m (17120224)                655545.75
4183473.41        0.00274m (17120224)
        655595.75   4183473.41        0.00269m (17120224)                655645.75
4183473.41        0.00262m (17120224)
        655695.75   4183473.41        0.00254m (17120224)                655745.75
4183473.41        0.00244m (17120224)
        654195.75   4183523.41        0.00436  (17010124)                654245.75
4183523.41        0.00418  (17010124)
        654295.75   4183523.41        0.00400  (17010124)                654345.75
4183523.41        0.00383  (17010124)
        654395.75   4183523.41        0.00366  (17010124)                654445.75
4183523.41        0.00349  (17010124)
        654495.75   4183523.41        0.00331  (17010124)                654545.75
4183523.41        0.00325m (17120224)
        654595.75   4183523.41        0.00321m (17120224)                654645.75
4183523.41        0.00316m (17120224)
        654695.75   4183523.41        0.00311m (17120224)                654745.75
4183523.41        0.00305m (17120224)
        654795.75   4183523.41        0.00300m (17120224)                654845.75
4183523.41        0.00295m (17120224)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0011332   , L0011333 , L0011334   , L0011335   , L0011336   ,
   L0011337   , L0011338   , L0011339   , L0011340   , L0011341 , L0011342   , L0011343   , L0011344   ,
   L0011345   , L0011346   , L0011347   , L0011348   , L0011349 , L0011350   , L0011351   , L0011352   ,
   L0011353   , L0011354   , L0011355   , L0011356   , L0011357 , L0011358   , L0011359   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
654895.75	4183523.41	0.00291m (17120224)	654945.75	4183523.41	0.00287m (17120224)
655295.75	4183523.41	0.00262m (17120224)	655345.75	4183523.41	0.00258m (17120224)
655395.75	4183523.41	0.00255m (17120224)	655445.75	4183523.41	0.00251m (17120224)
655495.75	4183523.41	0.00246m (17120224)	655545.75	4183523.41	0.00241m (17120224)
655595.75	4183523.41	0.00234m (17120224)	655645.75	4183523.41	0.00227m (17120224)
655695.75	4183523.41	0.00217m (17120224)	655745.75	4183523.41	0.00205m (17120224)
654145.75	4183573.41	0.00414 (17010124)	654195.75	4183573.41	0.00399 (17010124)
654245.75	4183573.41	0.00384 (17010124)	654295.75	4183573.41	0.00369 (17010124)
654345.75	4183573.41	0.00354 (17010124)	654395.75	4183573.41	0.00341 (17010124)
654445.75	4183573.41	0.00327 (17010124)	654495.75	4183573.41	0.00313 (17010124)
654545.75	4183573.41	0.00298 (17010124)	654595.75	4183573.41	0.00291m (17120224)
654645.75	4183573.41	0.00287m (17120224)	654695.75	4183573.41	0.00283m (17120224)
654745.75	4183573.41	0.00278m (17120224)	654795.75	4183573.41	0.00273m (17120224)
654845.75	4183573.41	0.00268m (17120224)	654895.75	4183573.41	0.00264m (17120224)
654945.75	4183573.41	0.00260m (17120224)	655295.75	4183573.41	0.00238m (17120224)
655345.75	4183573.41	0.00234m (17120224)	655395.75	4183573.41	0.00230m (17120224)
655445.75	4183573.41	0.00226m (17120224)	655495.75	4183573.41	0.00221m (17120224)
655545.75	4183573.41	0.00215m (17120224)	655595.75	4183573.41	0.00208m (17120224)
655645.75	4183573.41	0.00199m (17120224)	655695.75	4183573.41	0.00189m (17120224)
655745.75	4183573.41	0.00178m (17120224)	652295.75	4183623.41	0.00267b (17120824)

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        652345.75   4183623.41        0.00273b (17120824)               654145.75
4183623.41        0.00378  (17010124)
        654195.75   4183623.41        0.00365  (17010124)               654245.75
4183623.41        0.00353  (17010124)
        654295.75   4183623.41        0.00340  (17010124)               654345.75
4183623.41        0.00329  (17010124)
        654195.75   4183673.41        0.00336  (17010124)               654245.75
4183673.41        0.00326  (17010124)
        654295.75   4183673.41        0.00316  (17010124)               654345.75
4183673.41        0.00307  (17010124)
        653845.75   4183723.41        0.00446m (17120224)               654245.75
4183723.41        0.00302  (17010124)
        654295.75   4183723.41        0.00294  (17010124)               654345.75
4183723.41        0.00286  (17010124)
        653845.75   4183773.41        0.00425m (17120224)               654045.75
4183773.41        0.00352m (17120224)
        654095.75   4183773.41        0.00330m (17120224)               654145.75
4183773.41        0.00308m (17120224)
        654195.75   4183773.41        0.00289  (17010124)               654245.75
4183773.41        0.00282  (17010124)
        654295.75   4183773.41        0.00274  (17010124)               654345.75
4183773.41        0.00268  (17010124)
        653845.75   4183823.41        0.00407m (17120224)               654045.75
4183823.41        0.00332m (17120224)
        654095.75   4183823.41        0.00313m (17120224)               654145.75
4183823.41        0.00294m (17120224)
        654195.75   4183823.41        0.00273m (17120224)               654245.75
4183823.41        0.00263  (17010124)
        654295.75   4183823.41        0.00257  (17010124)               654345.75
4183823.41        0.00251  (17010124)
        653945.75   4183873.41        0.00382m (17120224)               653995.75
4183873.41        0.00335m (17120224)
        654045.75   4183873.41        0.00314m (17120224)               654095.75
4183873.41        0.00297m (17120224)
        654145.75   4183873.41        0.00280m (17120224)               654195.75
4183873.41        0.00262m (17120224)
        654245.75   4183873.41        0.00247  (17010124)               654295.75
4183873.41        0.00241  (17010124)
        654345.75   4183873.41        0.00235  (17010124)               653845.75
4183923.41        0.00379m (17120224)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
Manteca\Maverik Manteca_operations\Mave ***        03/04/22
 *** AERMET - VERSION  18081 ***   ***
                      ***        09:09:29

                                  PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 , L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 , L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 , L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653945.75	4183923.41	0.00362m	(17120224)	653995.75	4183923.41	0.00318m	(17120224)
654045.75	4183923.41	0.00297m	(17120224)	654095.75	4183923.41	0.00282m	(17120224)
654145.75	4183923.41	0.00267m	(17120224)	654195.75	4183923.41	0.00251m	(17120224)
654245.75	4183923.41	0.00235m	(17120224)	654295.75	4183923.41	0.00227	(17010124)
654345.75	4183923.41	0.00222	(17010124)	653745.75	4183973.41	0.00273m	(17120224)
653745.75	4184023.41	0.00261m	(17120224)	653795.75	4184023.41	0.00290m	(17120224)
653845.75	4184023.41	0.00354m	(17120224)	653945.75	4184023.41	0.00330m	(17120224)
653995.75	4184023.41	0.00287m	(17120224)	654045.75	4184023.41	0.00268m	(17120224)
654095.75	4184023.41	0.00256m	(17120224)	654145.75	4184023.41	0.00244m	(17120224)
654195.75	4184023.41	0.00232m	(17120224)	654245.75	4184023.41	0.00219m	(17120224)
654295.75	4184023.41	0.00205m	(17120224)	653745.75	4184073.41	0.00249m	(17120224)
653795.75	4184073.41	0.00278m	(17120224)	653845.75	4184073.41	0.00344m	(17120224)
653945.75	4184073.41	0.00316m	(17120224)	654095.75	4184073.41	0.00244m	(17120224)
654145.75	4184073.41	0.00234m	(17120224)	654195.75	4184073.41	0.00223m	(17120224)
654245.75	4184073.41	0.00212m	(17120224)	654295.75	4184073.41	0.00199m	(17120224)
653745.75	4184123.41	0.00238m	(17120224)	653795.75			

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4184123.41        0.00267m (17120224)
        653845.75   4184123.41        0.00334m (17120224)               653945.75
4184123.41        0.00303m (17120224)
        654095.75   4184123.41        0.00232m (17120224)               654145.75
4184123.41        0.00223m (17120224)
        654195.75   4184123.41        0.00214m (17120224)               654245.75
4184123.41        0.00204m (17120224)
        654295.75   4184123.41        0.00193m (17120224)               654345.75
4184123.41        0.00181m (17120224)
        653745.75   4184173.41        0.00229m (17120224)               653795.75
4184173.41        0.00257m (17120224)
        653845.75   4184173.41        0.00325m (17120224)               653945.75
4184173.41        0.00291m (17120224)
        654095.75   4184173.41        0.00222m (17120224)               654145.75
4184173.41        0.00214m (17120224)
        654195.75   4184173.41        0.00206m (17120224)               654245.75
4184173.41        0.00197m (17120224)
        654295.75   4184173.41        0.00187m (17120224)               653745.75
4184223.41        0.00221m (17120224)
        653795.75   4184223.41        0.00249m (17120224)               653845.75
4184223.41        0.00318m (17120224)
        653945.75   4184223.41        0.00280m (17120224)               654095.75
4184223.41        0.00212m (17120224)
        654145.75   4184223.41        0.00204m (17120224)               654195.75
4184223.41        0.00197m (17120224)
        654245.75   4184223.41        0.00189m (17120224)               653745.75
4184273.41        0.00213m (17120224)
        653795.75   4184273.41        0.00242m (17120224)               653845.75
4184273.41        0.00311m (17120224)
        653895.75   4184273.41        0.00374m (17120224)               653945.75
4184273.41        0.00269m (17120224)
        653995.75   4184273.41        0.00230m (17120224)               654095.75
4184273.41        0.00203m (17120224)
        654145.75   4184273.41        0.00195m (17120224)               654195.75
4184273.41        0.00189m (17120224)
        654245.75   4184273.41        0.00182m (17120224)               653745.75
4184323.41        0.00206m (17120224)
        653795.75   4184323.41        0.00234m (17120224)               653845.75
4184323.41        0.00304m (17120224)
        653895.75   4184323.41        0.00405m (17120224)               653945.75
4184323.41        0.00260m (17120224)
        654095.75   4184323.41        0.00194m (17120224)               654145.75
4184323.41        0.00187m (17120224)
        654195.75   4184323.41        0.00181m (17120224)               654245.75
4184323.41        0.00175m (17120224)
        653745.75   4184373.41        0.00199m (17120224)               653795.75
4184373.41        0.00227m (17120224)
        653845.75   4184373.41        0.00299m (17120224)               653895.75
4184373.41        0.00441m (17120224)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\Maverik
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011332 , L0011333 , L0011334 , L0011335 , L0011336 ,
L0011337 , L0011338 , L0011339 , L0011340 , L0011341 , L0011342 , L0011343 , L0011344 ,
L0011345 , L0011346 , L0011347 , L0011348 , L0011349 , L0011350 , L0011351 , L0011352 ,
L0011353 , L0011354 , L0011355 , L0011356 , L0011357 , L0011358 , L0011359 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
653945.75	4184373.41	0.00250m	(17120224)	654095.75	4184373.41	0.00186m	(17120224)
654145.75	4184373.41	0.00179m	(17120224)	654195.75	4184373.41	0.00173m	(17120224)
654245.75	4184373.41	0.00168m	(17120224)	653745.75	4184423.41	0.00192m	(17120224)
653795.75	4184423.41	0.00221m	(17120224)	653845.75	4184423.41	0.00294m	(17120224)
653895.75	4184423.41	0.00424m	(17120224)	653945.75	4184423.41	0.00241m	(17120224)
654095.75	4184423.41	0.00178m	(17120224)	654145.75	4184423.41	0.00171m	(17120224)
654195.75	4184423.41	0.00166m	(17120224)	654245.75	4184423.41	0.00161m	(17120224)
654295.75	4184423.41	0.00155m	(17120224)	653745.75	4184473.41	0.00186m	(17120224)
653795.75	4184473.41	0.00215m	(17120224)	653845.75	4184473.41	0.00290m	(17120224)
653895.75	4184473.41	0.00407m	(17120224)	653945.75	4184473.41	0.00233m	(17120224)
654095.75	4184473.41	0.00170m	(17120224)	654145.75	4184473.41	0.00164m	(17120224)

654195.75 4184473.41 0.00159m (17120224) 654245.75
4184473.41 0.00154m (17120224)
654295.75 4184473.41 0.00149m (17120224) 653745.75
4184523.41 0.00180m (17120224)
653795.75 4184523.41 0.00209m (17120224) 653845.75
4184523.41 0.00286m (17120224)
653895.75 4184523.41 0.00390m (17120224) 653945.75
4184523.41 0.00224m (17120224)
654095.75 4184523.41 0.00162m (17120224) 654145.75
4184523.41 0.00156m (17120224)
654195.75 4184523.41 0.00152m (17120224) 654245.75
4184523.41 0.00148m (17120224)
654295.75 4184523.41 0.00143m (17120224) 653645.75
4184573.41 0.00149 (17020924)
653695.75 4184573.41 0.00158m (17120224) 653745.75
4184573.41 0.00173m (17120224)
653795.75 4184573.41 0.00202m (17120224) 653845.75
4184573.41 0.00281m (17120224)
653895.75 4184573.41 0.00371m (17120224) 653945.75
4184573.41 0.00215m (17120224)
654095.75 4184573.41 0.00155m (17120224) 654145.75
4184573.41 0.00149m (17120224)
654195.75 4184573.41 0.00145m (17120224) 654245.75
4184573.41 0.00141m (17120224)
654295.75 4184573.41 0.00137m (17120224) 653645.75
4184623.41 0.00143 (17020924)
653695.75 4184623.41 0.00151m (17120224) 653745.75
4184623.41 0.00166m (17120224)
653795.75 4184623.41 0.00195m (17120224) 653845.75
4184623.41 0.00275m (17120224)
653895.75 4184623.41 0.00352m (17120224) 653945.75
4184623.41 0.00204m (17120224)
654095.75 4184623.41 0.00148m (17120224) 654295.75
4184623.41 0.00131m (17120224)
653645.75 4184673.41 0.00139 (17020924) 653695.75
4184673.41 0.00145 (17020924)
653745.75 4184673.41 0.00158m (17120224) 653795.75
4184673.41 0.00186m (17120224)
653845.75 4184673.41 0.00267m (17120224) 653895.75
4184673.41 0.00331m (17120224)
653945.75 4184673.41 0.00192m (17120224) 653995.75
4184673.41 0.00161m (17120224)
654045.75 4184673.41 0.00148m (17120224) 654095.75
4184673.41 0.00140m (17120224)
653645.75 4184723.41 0.00135 (17020924) 653695.75
4184723.41 0.00141 (17020924)
653745.75 4184723.41 0.00149m (17120224) 653795.75
4184723.41 0.00172m (17120224)
653845.75 4184723.41 0.00245m (17120224) 653895.75
4184723.41 0.00293m (17120224)

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0011332   , L0011333
, L0011334   , L0011335   , L0011336   ,
                  L0011337   , L0011338   , L0011339   , L0011340   , L0011341
, L0011342   , L0011343   , L0011344   ,
                  L0011345   , L0011346   , L0011347   , L0011348   , L0011349
, L0011350   , L0011351   , L0011352   ,
                  L0011353   , L0011354   , L0011355   , L0011356   , L0011357
, L0011358   , L0011359   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        653945.75   4184773.41   0.00152m (17120224)   653995.75
4184773.41   0.00138m (17120224)
        653745.75   4184823.41   0.00138 (17020924)   653795.75
4184823.41   0.00144 (17020924)
        653845.75   4184823.41   0.00147 (17020924)   653895.75
4184823.41   0.00131m (17120224)
        653945.75   4184823.41   0.00130m (17120224)   653995.75
4184823.41   0.00125m (17120224)
        653745.75   4184873.41   0.00129 (17020924)   653795.75
4184873.41   0.00130 (17020924)
        653845.75   4184873.41   0.00126 (17020924)   653895.75
4184873.41   0.00114m (17120224)
        653945.75   4184873.41   0.00116m (17120224)   653995.75

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4184873.41        0.00114m (17120224)
        653745.75   4184923.41        0.00121  (17020924)                653795.75
4184923.41        0.00119  (17020924)
        653845.75   4184923.41        0.00114  (17020924)                653895.75
4184923.41        0.00104m (17120224)
        653945.75   4184923.41        0.00106m (17120224)                653995.75
4184923.41        0.00106m (17120224)
        653745.75   4184973.41        0.00113  (17020924)                653795.75
4184973.41        0.00111  (17020924)
        653845.75   4184973.41        0.00106  (17020924)                653895.75
4184973.41        0.00096m (17120224)
        653945.75   4184973.41        0.00098m (17120224)                653995.75
4184973.41        0.00099m (17120224)
        653745.75   4185023.41        0.00107  (17020924)                653795.75
4185023.41        0.00104  (17020924)
        653845.75   4185023.41        0.00099  (17020924)                653895.75
4185023.41        0.00091  (17020924)
        653945.75   4185023.41        0.00092m (17120224)                653995.75
4185023.41        0.00093m (17120224)
        653745.75   4185073.41        0.00102  (17020924)                653795.75
4185073.41        0.00099  (17020924)
        653845.75   4185073.41        0.00094  (17020924)                653895.75
4185073.41        0.00086  (17020924)
        653945.75   4185073.41        0.00087m (17120224)                653995.75
4185073.41        0.00088m (17120224)
        653745.75   4185123.41        0.00097  (17020924)                653795.75
4185123.41        0.00094  (17020924)
        653845.75   4185123.41        0.00089  (17020924)                653895.75
4185123.41        0.00082  (17020924)
        653945.75   4185123.41        0.00082m (17120224)                653995.75
4185123.41        0.00083m (17120224)
        653745.75   4185173.41        0.00093  (17020924)                653795.75
4185173.41        0.00090  (17020924)
        653845.75   4185173.41        0.00085  (17020924)                653895.75
4185173.41        0.00079  (17020924)
        653945.75   4185173.41        0.00078m (17120224)                653995.75
4185173.41        0.00079m (17120224)
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*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3

**

NETWORK
GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
- - - -

                                                    DATE
                                          NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   6 Warning Message(s)
A Total of   228 Informational Message(s)

A Total of   8760 Hours Were Processed

A Total of   36 Calm Hours Identified

A Total of   192 Missing Hours Identified (2.19 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   2637   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187   2637   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

MX W420   5704   METQA: Wind Speed Out-of-Range.   KURDAT =
17082616
MX W420   5728   METQA: Wind Speed Out-of-Range.   KURDAT =
17082716
MX W420   5734   METQA: Wind Speed Out-of-Range.   KURDAT =
17082722
MX W420   5740   METQA: Wind Speed Out-of-Range.   KURDAT =
17082804

   ****
   *** AERMOD Finishes Successfully ***
   ****

APPENDIX C

SJCOG ADVIOSRY STATEMENT

S J C O G, Inc.

555 East Weber Avenue • Stockton, CA 95202 • (209) 235-0600 • FAX (209) 235-0600

San Joaquin County Multi-Species Habitat Conservation & Open Space Plan (SJMSCP)

The Crossing Retail Center Project
SJMSCP Incidental Take Minimization Measures
(APN: 241-32-44)

Date: December 17, 2020

Findings: Potential nesting habitat for western burrowing owl and Swainson's hawk

Potential nesting habitat for common birds (Migratory Bird Treaty Act)

Total Disturbed Acres Anticipated: 13.40 acres

Habitat Types to be Disturbed: Urban (U) Habitat Land (City of Manteca Compensation Map)

Project Jurisdiction: City of Manteca

Advisory Statements

After inspecting the project site, and project site conditions, the San Joaquin Council of Governments (SJCOG) provides the following *advisory statements* to the applicant. No further action is required with the SJCOG with respect to the following statements. SJCOG does not accept any liability for the accuracy of these statements since each regulatory agency discussed below must determine the extent of its own regulatory authority with respect to the proposed project.

It should be noted that two important federal and state agencies (U.S. Army Corps of Engineers and the California Regional Water Quality Control Board) and California Department of Fish and Wildlife Streambed Alteration requirements have not issued permits to the SJCOG and so payment of the fee to use the SJMSCP will not modify requirements (1600/1602) now imposed by these agencies. **If potential waters of the United States [pursuant to Section 404 Clean Water Act] may occur on the project site,** it therefore may be prudent to obtain a preliminary wetlands map from a qualified consultant. If waters of the United States are confirmed on the project site, the Corps and the Regional Water Quality Control Board (RWQCB) would have regulatory authority over those mapped areas [pursuant to Section 404 and 401 of the Clean Water Act respectively] and permits would likely be required from each of these resource agencies prior to impacting these features on the project site.

The SJMSCP covers lawful activities which must comply with all federal, state and local laws for coverage. The **Migratory Bird Treaty Act (MBTA)** is a federal act which protects many birds and their habitats. Those species go beyond the listed SJMSCP species but are included as protective measures for compliance with the federal MBTA measures. The measures will be stated under **MBTA Compliance** in the prescribed ITMM.

The ITMM is not deemed complete until finalized by SJCOG, Inc. staff and provided back to the project.

Conditions

Prior to ground disturbance:

1. Incidental Take Minimization Measures (ITMMs) will be issued to the project and must be signed by the project applicant prior to any ground disturbance but no later than six (6) months from receipt of the ITMMs. If ITMMs are not signed within six months, the applicant must reapply for SJMSCP Coverage. Upon receipt of signed ITMMs from project applicant, SJCOG, Inc. staff will sign the ITMMs. This is the effective date of the ITMMs.

2. Under no circumstance shall ground disturbance occur without compliance and satisfaction of the ITMMs.

3. Upon issuance of fully executed ITMMs and prior to any ground disturbance, the project applicant must:
   a. Post a bond for payment of the applicable SJMSCP fee covering the entirety of the project acreage being covered (the bond should be valid for no longer than a 6 month period); or
   b. Pay the appropriate SJMSCP fee for the entirety of the project acreage being covered; or
   c. Dedicate land in-lieu of fees, either as conservation easements or fee title; or
   d. Purchase approved mitigation bank credits.

4. Within 6 months from the effective date of the ITMMs or issuance of a building permit, whichever occurs first, the project applicant must:
   a. Pay the appropriate SJMSCP for the entirety of the project acreage being covered; or
   b. Dedicate land in-lieu of fees, either as conservation easements or fee title; or
   c. Purchase approved mitigation bank credits.

   Failure to satisfy the obligations of the mitigation fee shall subject the bond to be called.

Pay appropriate SJMSCP 2020 fees based on habitat categories and rates to **SJCOG, Inc.**:

- Urban (U) Habitat – 13.40 acres x $0.00 per acre = $0.00

Total Fee due: $0.00

Note: If fees are not paid prior to January 1, 2021 this project will be subject to the subsequent fee change, and the fee above will no longer be applicable.

Project Proponent Must Initial Here As to Understanding the Note Above: _____

Prior to commencing ground disturbance:

Surveys

Initial and/or follow up surveys shall be conducted no greater than14 days and 24 hours prior to construction for burrowing owl; and 14 days prior for Swainson's hawk and common nesting birds protected under the Migratory Bird Treaty Act (MBTA). If these species are observed nesting on the project site then the following Incidental Take Minimization Measures shall be implemented.

5.2.4.11 Swainson's Hawk

The Project Proponent has the option of retaining known or potential **Swainson's hawk** nest trees (i.e., trees that hawks are known to have nested in within the past three years or trees, such as large oaks, which the hawks prefer for nesting) or removing the nest trees.

If the Project Proponent elects to retain a nest tree, and in order to encourage tree retention, the following Incidental Take Minimization Measure shall be implemented during construction activities:

If a nest tree becomes occupied during construction activities, then all construction activities shall remain a distance of two times the dripline of the tree, measured from the nest.

If the Project Proponent elects to remove a nest tree, then nest trees may be removed between September 1 and February 15, when the nests are unoccupied.

These Incidental Take Minimization Measures are consistent with the provisions of the **Migratory Bird Treaty Act** as described in Section 5.2.3.1(G).

5.2.4.15 Burrowing Owls

The presence of ground squirrels and squirrel burrows are attractive to **burrowing owls. Burrowing owls** may therefore be discouraged from entering or occupying construction areas by discouraging the presence of ground squirrels

To accomplish this, the Project Proponent should prevent ground squirrels from occupying the project site early in the planning process by employing one of the following practices:

A. The Project Proponent may plant new vegetation or retain existing vegetation entirely covering the site at a height of approximately 36" above the ground. Vegetation should be retained until construction begins. Vegetation will discourage both ground squirrel and owl use of the site.

B. Alternatively, if burrowing owls are not known or suspected on a project site and the area is an unlikely occupation site for red-legged frogs, San Joaquin kit fox, or tiger salamanders:

The Project Proponent may disc or plow the entire project site to destroy any ground squirrel burrows. At the same time burrows are destroyed, ground squirrels should be removed through one of the following approved methods to prevent reoccupation of the project site. Detailed descriptions of these methods are included in Appendix A, Protecting

Endangered Species, Interim Measures for Use of Pesticides in San Joaquin County, dated March, 2000:

1. **Anticoagulants**. Establish bait stations using the approved rodenticide anticoagulants Chlorophacinone or Diphacinone. Rodenticides shall be used in compliance with U.S. Environmental Protection Agency label standards and as directed by the San Joaquin County Agricultural Commissioner.

2. **Zinc Phosphide**. Establish bait stations with non-treated grain 5-7 calendar days in advance of rodenticide application, and then apply Zinc Phosphide to bait stations. Rodenticides shall be used in compliance with U.S. Environmental Protection Agency label standards and as directed by the San Joaquin County Agricultural Commissioner.

3. **Fumigants**. Use below-ground gas cartridges or pellets and seal burrows. Approved fumigants include Aluminum Phosphide (Fumitoxin, Phostoxin) and gas cartridges sold by the local Agricultural Commissioner's office. NOTE: Crumpled newspaper covered with soil is often an effective seal for burrows when fumigants are used. Fumigants shall be used in compliance with U.S. Environmental Protection Agency label standards and as directed by the San Joaquin County Agricultural Commissioner.

4. **Traps**. For areas with minimal rodent populations, traps may be effective for eliminating rodents. If trapping activities are required, the use of traps shall be consistent with all applicable laws and regulations.

If the measures described above were not attempted or were attempted but failed, and burrowing owls are known to occupy the project site, then the following measures shall be implemented:

A. **Breeding season (February 1 through August 31):** Pre-construction surveys for burrowing owls [following the Staff Report on Burrowing Owls (CDFG 2012)] will be performed no less than 14 days prior and again 24-hours prior to initial ground disturbance activities.

1. Any occupied burrows shall not be disturbed and shall be provided with a 75 meter protective buffer until and unless the TAC, with the concurrence of the Permitting Agencies (representatives on the TAC); or unless a qualified biologist approved by the Permitting Agencies verifies through non-invasive means that either: 1) the birds have not begun egg laying, or 2) juveniles from the occupied burrows are foraging independently and are capable of independent survival.

   Once the fledglings are capable of independent survival, a Burrowing Owl Exclusion Plan (BOEP) is developed and approved by the applicable Department of Fish and Wildlife SJMSCP representative/office, and habitat is mitigated in accordance with the Staff Report (CDFG 2012), then the burrow can be destroyed. Pre-construction surveys following destruction of burrows and prior to initial construction activities are required (24-hours prior) to ensure owls do not re-colonize the Project Area.

2. If Project activities are delayed or suspended for more than 15 days during the breeding season, surveys will be repeated.

B. **Non-breeding season (September 1 through January 31):** Pre-construction surveys following the Staff Report on Burrowing Owls (CDFG 2012) will be performed prior (no less than 14-days and again 24-hours prior) to initial ground disturbance activities.

Burrowing owls may be evicted after a Burrowing Owl Exclusion Plan is developed and approved by the applicable Department of Fish and Wildlife SJMSCP representative/office and habitat is mitigated in accordance with the Staff Report (CDFG 2012).

Pre-construction surveys following destruction of burrows and prior to initial construction activities are required (24-hours prior) to ensure owls do not re-colonize the Project Area. If owls are found within 50 meters of the Project Area, it is recommended that visual screens or other measures are implemented to limit disturbance of the owls without evicting them from the occupied burrows.

MBTA Compliance:

Listed below are effective measures that should be employed at all project development sites nationwide with the goal of reducing impacts to birds and their habitats. A qualified biologist will be required to be on site as a biological monitor during these activities. These measures are grouped into three categories: General, Habitat Protection, and Stressor Management. These measures may be updated through time. We recommend checking the MBTA Conservation Measures website regularly for the most up-to-date list.

1. ***General Measures***
   a. *Educate all employees, contractors, and/or site visitors of relevant rules and regulations that protect wildlife. See the Service webpage on Regulations and Policies for more information on regulations that protect migratory birds.*
   b. *Prior to removal of an inactive nest, ensure that the nest is not protected under the Endangered Species Act (ESA) or the Bald and Golden Eagle Protection Act (BGEPA). Nests protected under ESA or BGEPA cannot be removed without a valid permit.*
      i. *See the Service Nest Destruction Policy*
   c. *Do not collect birds (live or dead) or their parts (e.g., feathers) or nests without a valid permit. Please visit the Service permits page for more information on permits and permit applications.*
   d. *Provide enclosed solid waste receptacles at all project areas. Non-hazardous solid waste (trash) would be collected and deposited in the on-site receptacles. Solid waste would be collected and disposed of by a local waste disposal contractor. For more information about solid waste and how to properly dispose of it, see the EPA Non-Hazardous Waste website.*
   e. *Report any incidental take of a migratory bird, to the local Service Office of Law Enforcement.*
   f. *Consult and follow applicable Service industry guidance.*

2. ***Habitat Protection***
   a. *Minimize project creep by clearly delineating and maintaining project boundaries (including staging areas).*

b. *Consult all local, State, and Federal regulations for the development of an appropriate buffer distance between development site and any wetland or waterway. For more information on wetland protection regulations see the Clean Water Act sections 401 and 404.*
c. *Maximize use of disturbed land for all project activities (i.e., siting, lay-down areas, and construction).*
d. *Implement standard soil erosion and dust control measures. For example:*
    i. *Establish vegetation cover to stabilize soil*
    ii. *Use erosion blankets to prevent soil loss*
    iii. *Water bare soil to prevent wind erosion and dust issues*

3. ***Stressor Management***

Stressor: Vegetation Removal

Conservation Goal: Avoid direct take of adults, chicks, or eggs.

***Conservation Measure 1**: Schedule all vegetation removal, trimming, and grading of vegetated areas outside of the peak bird breeding season to the maximum extent practicable. Use available resources, such as internet-based tools (e.g., the FWS's Information, Planning and Conservation system and Avian Knowledge Network) to identify peak breeding months for local bird species; or, contact local Service Migratory Bird Program Office for breeding bird information.*

***Conservation Measure 2**: When project activities cannot occur outside the bird nesting season, conduct surveys prior to scheduled activity to determine if active nests are present within the area of impact and buffer any nesting locations found during surveys.*

1) *Generally, the surveys should be conducted no more than five days prior to scheduled activity.*
2) *Timing and dimensions of the area to be surveyed vary and will depend on the nature of the project, location, and expected level of vegetation disturbance.*
3) *If active nests or breeding behavior (e.g., courtship, nest building, territorial defense, etc.) are detected during these surveys, no vegetation removal activities should be conducted until nestlings have fledged or the nest fails or breeding behaviors are no longer observed. If the activity must occur, establish a buffer zone (100-feet minimum) around the nest and no activities will occur within that buffer zone until nestlings have fledged and left the nest area. The dimension of the buffer zone may need to be expanded depending on the proposed activity, habitat type, and species present and should be coordinated with the biologist on site and/or SJMSCP.*
4) *When establishing the buffer zone, construct a barrier (e.g., plastic fencing) to protect the area. If the fence is knocked down or destroyed, work will suspend wholly, or in part, until the fence is satisfactorily repaired.*
5) *When establishing a buffer zone, a qualified biologist will be present onsite to serve as a biological monitor during vegetation clearing and grading activities to ensure no take of migratory birds occurs. Prior to vegetation clearing, the monitor will ensure that the limits of construction have been properly staked and are readily identifiable. Any associated project activities that are inconsistent with the applicable conservation measures, and activities that may result in the 'take of migratory birds' will be immediately halted and reported to the SJMSCP and the appropriate Service office within 24 hours.*

6) *If establishing a buffer zone of a minimum of 100-feet is not feasible, contact the Service for guidance to minimize impacts to migratory birds associated with the proposed project or removal of an active nest. Active nests may only be removed if you receive a permit from your local Migratory Bird Permit Office. A permit may authorize active nest removal by a qualified biologist with bird handling experience or by a permitted bird rehabilitator.*

***Conservation Measure 3**: Prepare a vegetation maintenance plan that outlines vegetation maintenance activities and schedules so that direct bird impacts do not occur.*

Stressor: Invasive Species Introduction

***Conservation Goal**: Prevent the introduction of invasive plants.*

***Conservation Measure 1:** Prepare a weed abatement plan that outlines the areas where weed abatement is required and the schedule and method of activities to ensure bird impacts are avoided.*

***Conservation Measure 2:** For temporary and permanent habitat restoration/enhancement, use only native and local (when possible) seed and plant stock.*

***Conservation Measure 3:** Consider creating vehicle wash stations prior to entering sensitive habitat areas to prevent accidental introduction of non-native plants.*

***Conservation Measure 4:** Remove invasive/exotic species that pose an attractive nuisance to migratory birds.*

Stressor: Artificial Lighting

***Conservation Goal**: Prevent increase in lighting of native habitats during the bird breeding season.*

***Conservation Measure 1:** To the maximum extent practicable, limit construction activities to the time between dawn and dusk to avoid the illumination of adjacent habitat areas.*

***Conservation Measure 2:** If construction activity time restrictions are not possible, use down shielding or directional lighting to avoid light trespass into bird habitat (i.e., use a 'Cobra' style light rather than an omnidirectional light system to direct light down to the roadbed). To the maximum extent practicable, while allowing for public safety, low intensity energy saving lighting (e.g. low pressure sodium lamps) will be used.*

***Conservation Measure 3:** Minimize illumination of lighting on associated construction or operation structures by using motion sensors or heat sensors.*

***Conservation Measure 5:** Bright white light, such as metal halide, halogen, fluorescent, mercury vapor and incandescent lamps should not be used.*

Stressor: Human Disturbance

***Conservation Goal**: Minimize prolonged human presence near nesting birds during construction and maintenance actions.*

Conservation Measure 1: *Restrict unauthorized access to natural areas adjacent to the project site by erecting a barrier and/or avoidance buffers (e.g., gate, fence, wall) to minimize foot traffic and off-road vehicle uses.*

Stressor: Collision

Conservation Goal*: Minimize collision risk with project infrastructure and vehicles.*

Conservation Measure 1: *Minimize collision risk with project infrastructure (e.g., temporary and permanent) by increasing visibility through appropriate marking and design features (e.g., lighting, wire marking, etc.).*

Conservation Measure 2: *On bridge crossing areas with adjacent riparian, beach, estuary, or other bird habitat, use fencing or metal bridge poles (Sebastian Poles) that extend to the height of the tallest vehicles that will use the structure.*

Conservation Measure 3: *Install wildlife friendly culverts so rodents and small mammals can travel under any new roadways instead of over them. This may help reduce raptor deaths associated with being struck while tracking prey or scavenging road kill on the roadway.*

Conservation Measure 4: *Remove road-kill carcasses regularly to prevent scavenging and bird congregations along roadways.*

Conservation Measure 5: *Avoid planting "desirable" fruited or preferred nesting vegetation in medians or Rights of Way.*

Conservation Measure 6: *Eliminate use of steady burning lights on tall structures (e.g.,*

>200 ft).

Stressor: Entrapment

Conservation Goal*: Prevent birds from becoming trapped in project structures or perching and nesting in project areas that may endanger them.*

Conservation Measure 1: *Minimize entrapment and entanglement hazards through project design measures that may include:*

1. *Installing anti-perching devices on facilities/equipment where birds may commonly nest or perch*
2. *Covering or enclosing all potential nesting surfaces on the structure with mesh netting, chicken wire fencing, or other suitable exclusion material prior to the nesting season to prevent birds from establishing new nests. The netting, fencing, or other material must have no opening or mesh size greater than 19 mm and must be maintained until the structure is removed.*
3. *Cap pipes and cover/seal all small dark spaces where birds may enter and become trapped.*

Conservation Measure 2: *Use the appropriate deterrents to prevent birds from nesting on structures where they cause conflicts, may endanger themselves, or create a human health and safety hazard.*

1. *During the time that the birds are trying to build or occupy their nests (generally, between April and August, depending on the geographic location), potential nesting surfaces should be monitored at least once every three days for any nesting activity, especially where bird use of structures is likely to cause take. It is permissible to remove non-active nests (without birds or eggs), partially completed nests, or new nests as they are built (prior to occupation). If birds have started to build any nests, the nests shall be removed before they are completed. Water shall not be used to remove the nests if nests are located within 50 feet of any surface waters.*

2. *If an active nest becomes established (i.e., there are eggs or young in the nest), all work that could result in abandonment or destruction of the nest shall be avoided until the young have fledged or the nest is unoccupied. Construction activities that may displace birds after they have laid their eggs and before the young have fledged should not be permitted. If the project continues into the following spring, this cycle shall be repeated. When work on the structure is complete, all netting shall be removed and properly disposed of.*

Stressor: Noise

***Conservation Goal**: Prevent the increase in noise above ambient levels during the nesting bird breeding season.*

***Conservation Measure 1:** Minimize an increase in noise above ambient levels during project construction by installing temporary structural barriers such as sand bags*

***Conservation Measure 2:** Avoid permanent additions to ambient noise levels from the proposed project by using baffle boxes or sound walls.*

Stressor: Chemical Contamination

***Conservation Goal**: Prevent the introduction of chemicals contaminants into the environment.*

***Conservation Measure 1:** Avoid chemical contamination of the project area by implementing a Hazardous Materials Plan. For more information on hazardous waste and how to properly manage hazardous waste, see the EPA Hazardous Waste website.*

***Conservation Measure 2:** Avoid soil contamination by using drip pans underneath equipment and containment zones at construction sites and when refueling vehicles or equipment.*

***Conservation Measure 3:** Avoid contaminating natural aquatic and wetland systems with runoff by limiting all equipment maintenance, staging laydown, and dispensing of fuel, oil, etc., to designated upland areas.*

***Conservation Measure 4:** Any use of pesticides or rodenticides shall comply with the applicable Federal and State laws.*

1. *Choose non-chemical alternatives when appropriate*
2. *Pesticides shall be used only in accordance with their registered uses and in accordance with the manufacturer's instructions to limit access to non-target species.*
3. *For general measures to reducing wildlife exposure to pesticides, see EPA's*

Pesticides: Environmental Effects website.

Stressor: Fire

***Conservation Goal**: Minimize fire potential from project-related activities.*

***Conservation Measure 1:** Reduce fire hazards from vehicles and human activities (e.g., use spark arrestors on power equipment, avoid driving vehicles off road).*

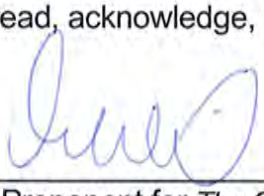
***Conservation Measure 2:** Consider fire potential when developing vegetation management plans by planting temporary impact areas with a palate of low-growing, sparse, fire resistant native species that meet with the approval of the County Fire Department and local FWS Office.*

During project construction:

All food-related trash items such as wrappers, cans, bottles, and food scraps shall be disposed of in closed containers and removed at least once a week from the construction site.

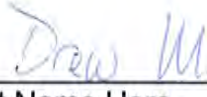
In reliance on the Section 10(a)(I)(B) Permit issued by the United States Fish and Wildlife Service and the Section 208I(b) Incidental Take Permit issued by the California Department of Fish and Wildlife, City of Manteca has consulted with and agreed to allow coverage pursuant to the SJMSCP for *The Crossing Retail Center Project* its successors, agents and assigns pursuant to the "Implementation Agreement for the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan" which will allow *The Crossing Retail Center Project,* its successors, agents and assigns to construct, operate and maintain the Project commonly known as *The Crossing Retail Center Project* and located on *Assessor Parcel Numbers 241-320-44* which could result in a legally permitted Incidental Take of the SJMSCP Covered Species in accordance with and subject to the terms and conditions of *The Crossing Retail Center Project* approved by City of Manteca. This Certification applies only to activities on the subject parcel(s) which are carried out in full compliance with the approved plans for*The Crossing Retail Center Project*, Section 10(a)(I)(B) Permit, and Section 208I(b) Incidental Take Permit conditions.

I have read, acknowledge, and agree to the preceding conditions:



Project Proponent for *The Crossing Retail Center Project*

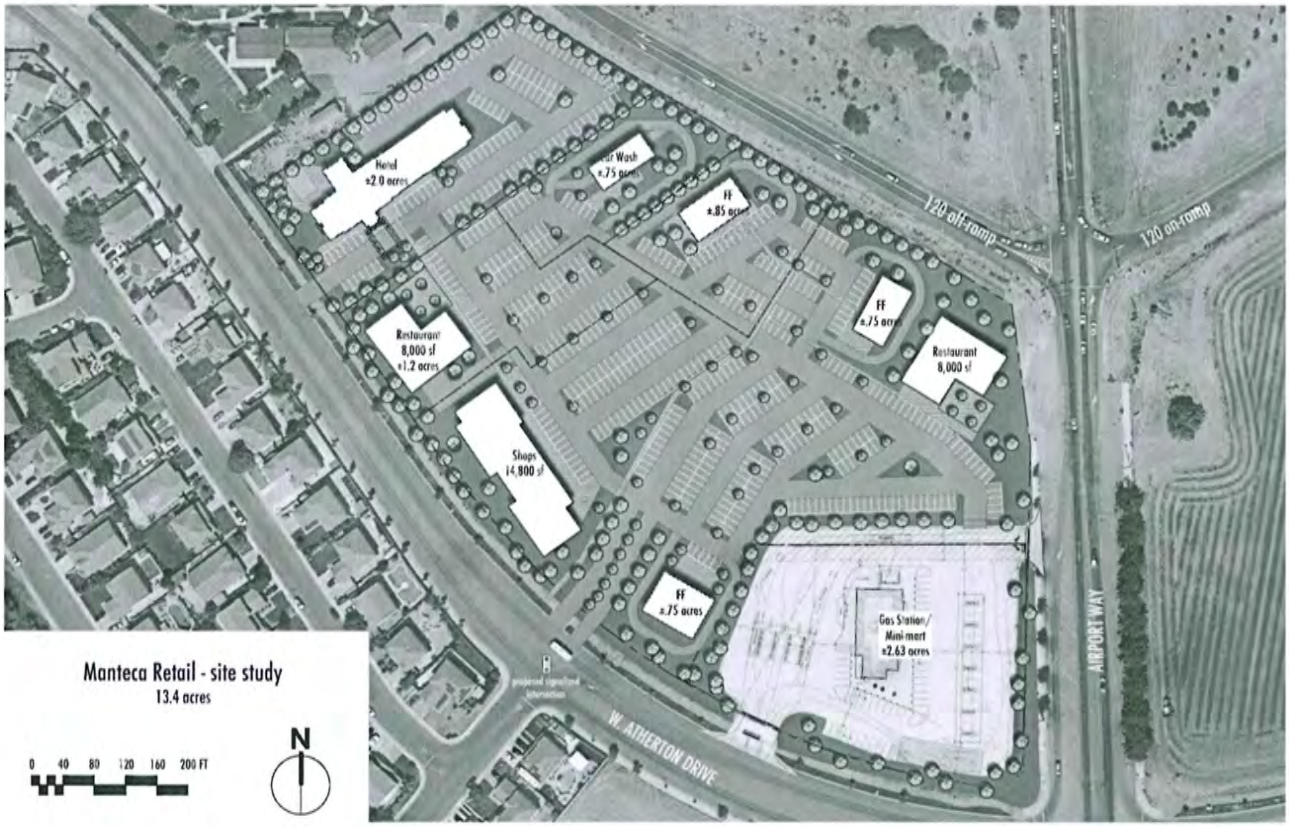
Date 12-17-20



Please Print Name Here

FOR SJCOG, Inc. Use Only:

	12/17/2020
SJCOG, Inc. Staff Signature	Official Date of Issuance
Laurel Boyd	06/17/2021
SJCOG, Inc. Staff Print Name Here	Mitigation Due Date



APPENDIX D

SJCOG CERTIFICATE OF PAYMENT

S J C O G, Inc.

555 East Weber Avenue ● Stockton, CA 95202 ● (209) 235-0600 ● FAX (209) 235-0438

San Joaquin County Multi-Species Habitat Conservation & Open Space Plan (SJMSCP)

Certificate of Payment
CP-20-148

This Certificate of Payment serves as acknowledgement for payment of development fees pursuant to the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan. The project and fee amount paid are provided below.

Project: The Crossing Retail Center Project

Project Jurisdiction: City of Manteca

Assessor Parcel Number(s): 241-32-44

Project Impact(s): 13.40 acres of Urban (U) Habitat
(City of Manteca Compensation Map)

Payment Date: December 17, 2020

Fee Amount: 13.40 acres x $0.00 per acre = $0.00

Total Amount Paid= $0.00

Certificate Prepared By: Laurel Boyd

Payment Received By Signature: _____

Print Name: Laurel K Boyd **Date:** December 17, 2020

Hotel
±2.0 acres
Car Wash
±.75 acres
FF
±.85 acres
FF
±.75 acres
Restaurant
8,000 sf
±1.2 acres
Restaurant
8,000 sf
Shops
14,800 sf
FF
±.75 acres
Gas Station/
Mini-mart
±2.63 acres
120 off-ramp
120 on-ramp
AIRPORT WAY
W. ATHERTON DRIVE
proposed signalized
intersection
Manteca Retail - site study
13.4 acres
0 40 80 120 160 200 FT
N

APPENDIX E

CULTURAL RESOURCES STUDY

Maverik Manteca Retail Project

Cultural Resources Assessment Report

prepared for

Kimley-Horn
555 Capitol Mall, Suite 300
Sacramento, California 95814
Contact: Alex Jewell

prepared by

Rincon Consultants, Inc.
449 15th Street, Suite 303
Oakland, California 94612

February 2022

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Confidentiality

The following document contains sensitive and confidential information concerning archaeological sites. This report should be held confidential and is not for public distribution. Archaeological site locations are exempt from the California Public Records Act, as specified in Government Code 6254.10, and from the Freedom of Information Act (Exemption 3), under the legal authority of both the National Historic Preservation Act (PL 102-574, Section 304[a]) and the Archaeological Resources Protection Act (PL 96-95, Section 9[a]). Sections of this report contain maps and other sensitive information. Distribution should be restricted appropriately.

Please cite this report as follows:

Losco, A., L. Maldonado, D. Merrick, H. Blind and A. Pulcheon

2022. *Maverik Manteca Retail Project, San Joaquin County, California*. Rincon Consultants Project No. 21-12215. Report on file at the Central Information Center, California State University Stanislaus, California

Table of Contents

Executive Summary 1
1 Introduction 2
1.1 Project Site and Description 2
1.2 Personnel 2
2 Regulatory Setting 6
2.1 California Environmental Quality Act 6
2.1.1 National Register of Historic Places 7
2.1.2 California Register of Historical Resources 8
2.1.3 California Assembly Bill 52 of 2014 9
2.2 California Senate Bill 18 of 2004 9
2.3 California Health and Safety Code 10
2.4 California Public Resources Code §5097.98 10
2.5 Local Regulations 10
2.5.1 City of Manteca General Plan 10
3 Methods 13
3.1 Background and Archival Research 13
3.1.1 Archival Research 13
3.1.2 California Historical Resources Information System Records Search 13
3.1.3 Sacred Lands File Search 13
3.2 Field Survey 14
4 Natural and Cultural Setting 15
4.1 Natural Setting 15
4.2 Cultural Setting 15
4.2.1 Indigenous History 15
4.2.2 Ethnographic Setting 17
4.2.3 Post-Contact Setting 18
5 Findings 21
5.1 Known Cultural Resources 21
5.1.1 P-39-005337 21
5.2 Known Cultural Resources Studies 21
5.2.1 Study SJ-01900 21
5.2.2 Study SJ-4786 21
5.3 Aerial Imagery and Historical Topographic Maps Review 22
5.4 Sacred Land File Search 22
5.5 Survey Results 22
6 Impacts Analysis and Conclusions 24

6.1 Historical Built Environment Resources 24
6.2 Historical and Unique Archaeological Resources 24
6.2.1 Recommended Mitigation 24
6.3 Human Remains 25
7 References 26

Figures

Figure 1 Regional Location 3
Figure 2 Project Site 4
Figure 3 Proposed Project Plans 5

Appendices

Appendix A California Historical Resources Information System Record Results
Appendix B Native American Heritage Commission Sacred Lands File Request Results
Appendix C Survey Photographs of the Project Site

Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by Kimley-Horn to conduct a cultural resources study for the Maverik Manteca Retail Project (proposed project). Located in the city of Manteca, San Joaquin County, the proposed project will involve development of a 17-acre parcel located north-northeast of the intersection of West Atherton Drive and Airport Way. The proposed project is subject to the California Environmental Quality Act (CEQA) with the City of Manteca (City) acting as the lead agency under CEQA.

This cultural resources study was prepared to support compliance with CEQA and included a cultural resources records search of the California Historical Resources Information System (CHRIS), a Sacred Lands File (SLF) search, a pedestrian survey of the project site, and the preparation of this report to summarize the results of these activities.

The records searches and pedestrian survey identified no cultural resources within the project site. Therefore, Rincon recommends a finding for the proposed project of ***less-than-significant impact with mitigation for archaeological resources under CEQA.*** As standard best management practices under CEQA, Rincon has recommended measures in the unlikely event of an unanticipated discovery during project construction.

1 Introduction

Kimley-Horn retained Rincon Consultants Inc. (Rincon) to conduct a cultural resources assessment for the Maverik Manteca Retail Project (proposed project) in Manteca, San Joaquin County, California. This assessment documents the tasks conducted by Rincon, specifically, a cultural resources records search, Sacred Lands File (SLF) search, and a field survey. This assessment has been completed pursuant to the requirements of the California Environmental Quality Act (CEQA). The City of Manteca is the lead agency under CEQA.

1.1 Project Site and Description

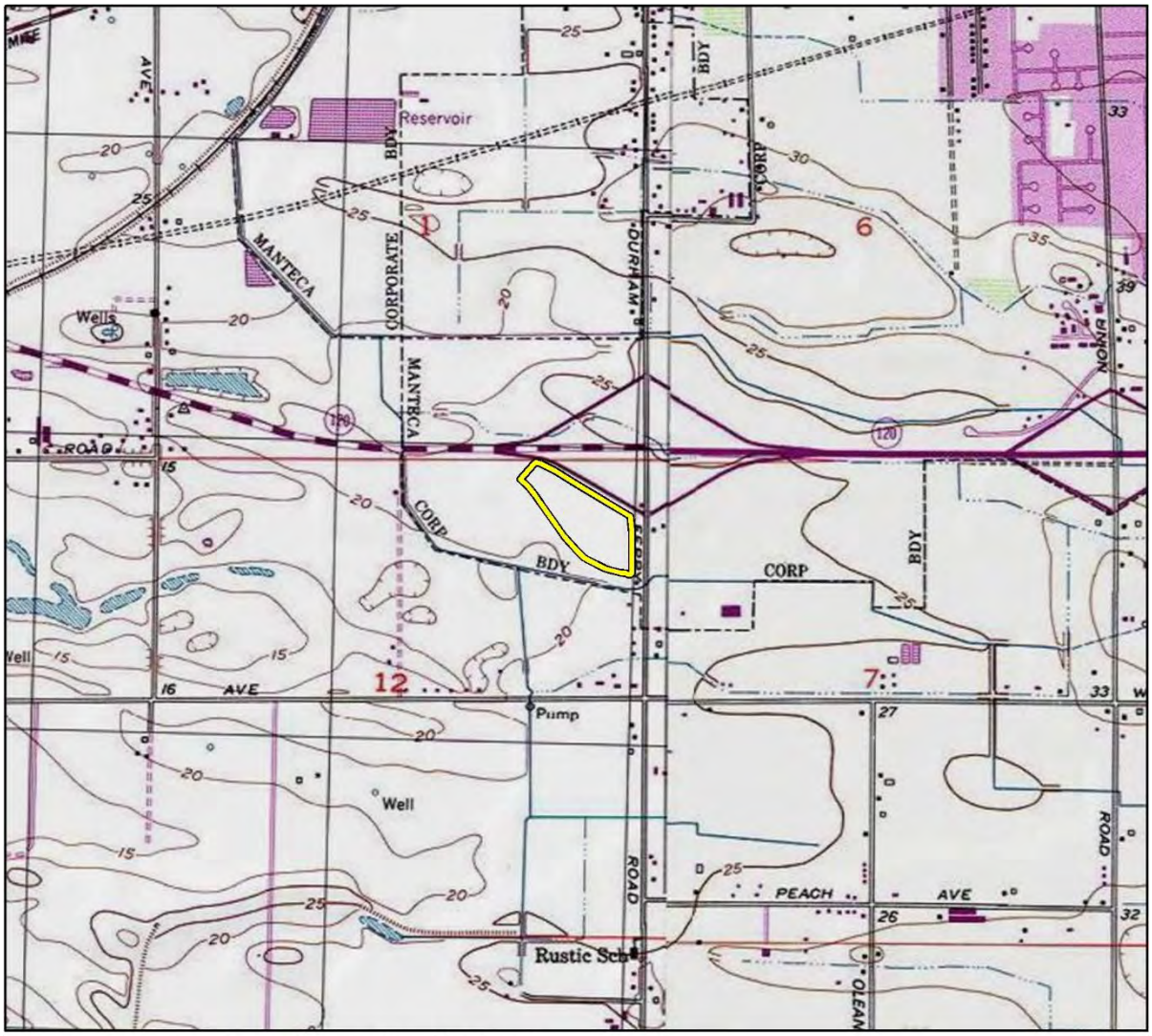
The project site is located at West Atherton Drive and Airport Way in the city of Manteca (Figure 1 and Figure 2). Specifically, the proposed project encompasses portions of Section 12 of Township 02S, Range 06E on the *Lathrop, California* and *Manteca*, *California* United States Geological Survey (USGS) 7.5-minute topographic quadrangles.

The project will involve the development of a 17-acre parcel located north-northeast of the intersection of West Atherton Drive and Airport Way with retail and commercial buildings. The project site is surrounded by single-family dwellings to the south and east and commercial uses to the north of State Route 120. A gas station will be constructed at the northwest corner of West Atherton Drive and Airport Way including new driveways off each road to access the station. Seven commercial buildings will be developed to the north and west of the gas station with associated parking lots, driveways, and landscaped areas. At the far northwest corner of the lot occupying approximately 2.25 acres, a four-story hotel will be constructed with 145 parking spots. At the intersection of West Atherton Drive and Langum Way, a traffic signal will be constructed to regulate the increase in traffic (Figure 3).

1.2 Personnel

Rincon Archaeologist and Project Manager Dustin Merrick, MA, Registered Professional Archaeologist (RPA), provided management oversight for this cultural resources study. Architectural Historian Ashley Losco, MSHP, is the primary author of this report. Rincon Archaeologist Laura Maldonado, BA, conducted the field survey and is also a contributing author on this report. Mr. Merrick performed the cultural resources records search and the Native American outreach for this project. Senior Archaeologist Heather Blind, MA, RPA, provided management oversight and reviewed the project for archaeological resources and is a contributing author of this report. Geographic Information Systems Analyst Allysen Valencia prepared the figures found in this report. Principal Archaeologist Andrew Pulcheon, RPA, AICP, CEP, reviewed this report for quality control.

Figure 1 Regional Location



Basemap provided by National Geographic Society, Esri and their licensors © 2022. Lathrop Quadrangle. T02S R06E S12. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

Project Location

0 1,000 2,000 Feet

N

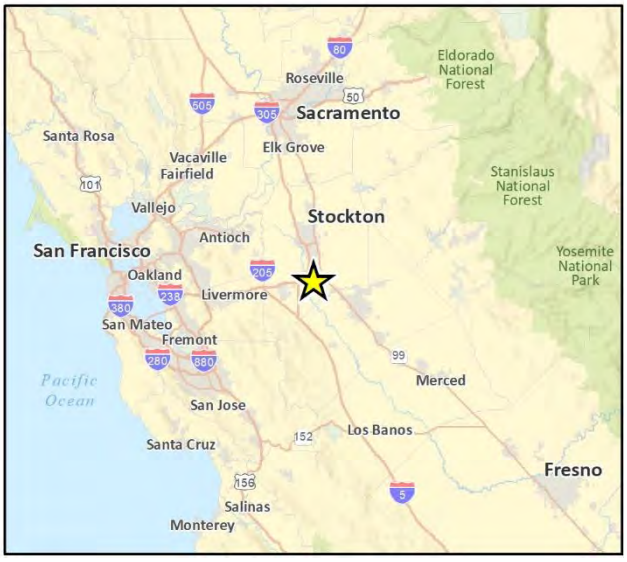
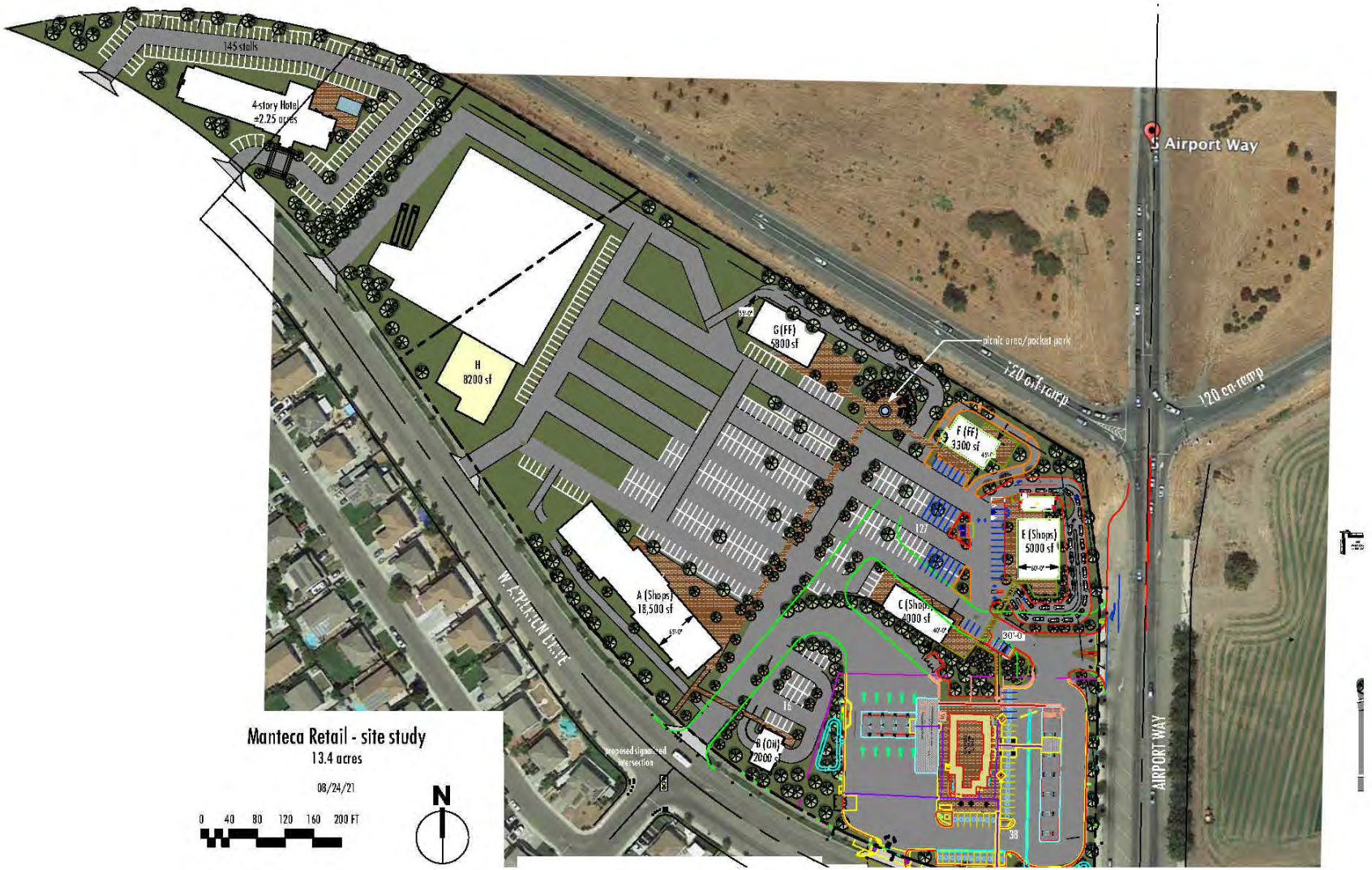


Figure 2 Project Site

Imagery provided by Microsoft Bing and its licensors © 2021.

Figure 3 Proposed Project Plans



2 Regulatory Setting

This section includes a discussion of the applicable state and local laws, ordinances, regulations, and standards governing cultural resources, which must be adhered to before and during implementation of the proposed project.

2.1 California Environmental Quality Act

California Public Resources Code (PRC) Section 21804.1 requires lead agencies determine if a project could have a significant impact on historical or unique archaeological resources. As defined in the PRC Section 21084.1, a historical resource is a resource listed in, or determined eligible for listing in, the California Register of Historical Resources (CRHR), a resource included in a local register of historical resources or identified in a historical resources survey pursuant to PRC Section 5024.1(g); or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant. PRC Section 21084.1 also states resources meeting the above criteria are presumed to be historically or cultural significant unless the preponderance of evidence demonstrates otherwise. Resources listed in the National Register of Historic Places (NRHP) are automatically listed in the CRHR and are, therefore, historical resources under CEQA. Historical resources may include eligible built environment resources and archaeological resources of the precontact or historic periods.

CEQA Guidelines Section 15064.5(c) provides further guidance on the consideration of archaeological resources. If an archaeological resource does not qualify as a historical resource, it may meet the definition of a “unique archaeological resource” as identified in PRC Section 21083.2. PRC Section 21083.2(g) defines a unique archaeological resource as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria: 1) it contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information, 2) has a special and particular quality such as being the oldest of its type or the best available example of its type, or 3) is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological resource does not qualify as a historical or unique archaeological resource, the impacts of a project on those resources will be less than significant and need not be considered further (CEQA Guidelines Section 15064.5[c][4]). CEQA Guidelines Section 15064.5 also provides guidance for addressing the potential presence of human remains, including those discovered during the implementation of a project.

According to CEQA, an impact that results in a substantial adverse change in the significance of a historical resource is considered a significant impact on the environment. A substantial adverse change could result from physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired (CEQA Guidelines §15064.5 [b][1]). Material impairment is defined as demolition or alteration in an adverse manner [of] those characteristics of a historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR or a local register (CEQA Guidelines §15064.5[b][2][A]).

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that resources cannot be left undisturbed, mitigation measures are required (PRC §21083.2[a][b]).

Section 15126.4 of the CEQA Guidelines stipulates an EIR shall describe feasible measures to minimize significant adverse impacts. In addition to being fully enforceable, mitigation measures must be completed within a defined time period and roughly proportional to the impacts of the project. Generally, a project which is found to comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings (the Standards) is considered to be mitigated below a level of significance (CEQA Guidelines Section 15126.4 [b][1]). For historical resources of an archaeological nature, lead agencies should also seek to avoid damaging effects where feasible. Preservation in place is the preferred manner to mitigate impacts to archaeological sites; however, data recovery through excavation may be the only option in certain instances (CEQA Guidelines Section 15126.4[b][3]).

2.1.1 National Register of Historic Places

Although the project does not have a federal nexus, properties which are listed in or have been formally determined eligible for listing in the NRHP are automatically listed in the CRHR. The following is therefore presented to provide applicable regulatory context. The NRHP was authorized by Section 101 of the National Historic Preservation Act and is the nation's official list of cultural resources worthy of preservation. The NRHP recognizes the quality of significance in American, state and local history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects. Per 36 CFR Part 60.4, a property is eligible for listing in the NRHP if it meets one or more of the following criteria:

Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history

Criterion B: Is associated with the lives of persons significant in our past

Criterion C: Embodies the distinctive characteristics of a type, period, or method of installation, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction

Criterion D: Has yielded, or may be likely to yield, information important in prehistory or history

In addition to meeting at least one of the above designation criteria, resources must also retain integrity. The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, defined as follows:

Location: The place where the historic property was constructed or the place where the historic event occurred

Design: The combination of elements that create the form, plan, space, structure, and style of a property

Setting: The physical environment of a historic property

Materials: The physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property

Workmanship: The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory

Feeling: A property's expression of the aesthetic or historic sense of a particular period of time

Association: The direct link between an important historic event or person and a historic property

Certain properties are generally considered ineligible for listing in the NRHP, including cemeteries, birthplaces, graves of historical figures, properties owned by religious institutions, relocated structures, or commemorative properties. Additionally, a property must be at least 50 years of age to be eligible for listing in the NRHP. The National Park Service states that 50 years is the general estimate of time needed to develop the necessary historical perspective to evaluate significance (National Park Service 1997:41). Properties which are less than 50 years must be determined to have "exceptional importance" to be considered eligible for NRHP listing.

2.1.2 California Register of Historical Resources

The CRHR was established in 1992 and codified by PRC §§5024.1 and 4852. The CRHR is an authoritative listing and guide to be used by State and local agencies, private groups, and citizens in identifying the existing historical resources of the State and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change (Public Resources Code, 5024.1(a)). The criteria for eligibility for the CRHR are consistent with the NRHP criteria but have been modified for state use in order to include a range of historical resources that better reflect the history of California (Public Resources Code, 5024.1(b)). Unlike the NRHP however, the CRHR does not have a defined age threshold for eligibility; rather, a resource may be eligible for the CRHR if it can be demonstrated sufficient time has passed to understand its historical or architectural significance (California Office of Historic Preservation 2011). Further, resources may still be eligible for listing in the CRHR even if they do not retain sufficient integrity for NRHP eligibility (California Office of Historic Preservation 2011). Generally, the California Office of Historic Preservation recommends resources over 45 years of age be recorded and evaluated for historical resources eligibility (California Office of Historic Preservation 1995:2).

A property is eligible for listing in the CRHR if it meets one or more of the following criteria:

Criterion 1: Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

Criterion 2: Is associated with the lives of persons important to our past

Criterion 3: Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history

2.1.3 California Assembly Bill 52 of 2014

As of July 1, 2015, Assembly Bill (AB) 52 was enacted and expands CEQA by defining a new resource category: "tribal cultural resources." AB 52 establishes "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment" (PRC Section 21084.2). It further states that the CEQA lead agency shall establish measures to avoid impacts that would alter the significant characteristics of a tribal cultural resource, when feasible (PRC Section 21084.3).

PRC Section 21074 (a)(1)(A) and (B) define tribal cultural resources as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe" and that meets at least one of the following criteria, as summarized in CEQA Guidelines Appendix G:

1) Listed or eligible for listing in the CRHR, or in a local register of historical resources as defined in PRC Section 5020.1(k)
2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe.

AB 52 also establishes a formal consultation process with California Native American tribes that must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." California Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

2.2 California Senate Bill 18 of 2004

California Government Code Section 65352.3 (adopted pursuant to the requirements of Senate Bill [SB] 18) requires local governments to contact, refer plans to, and consult with tribal organizations prior to making a decision to adopt or amend a general or specific plan. The tribal organizations eligible to consult have traditional lands in a local government's jurisdiction and are identified, upon request, by the Native American Heritage Commission (NAHC). As noted in the California Office of Planning and Research's Tribal Consultation Guidelines (2005), "the intent of SB 18 is to provide California Native American tribes an opportunity to participate in local land use decisions at an early planning stage, for the purpose of protecting, or mitigating impacts to, cultural places." SB 18 refers to PRC Section 5097.9 and 5097.995 to define cultural places as:

- A Native American sanctified cemetery, place of worship, religious or ceremonial site, or sacred shrine (PRC Section 5097.9)
- A Native American historic, cultural, or sacred site, that is listed or may be eligible for listing in the California Register of Historical Resources pursuant to Section 5024.1, including any historic or prehistoric ruins, any burial ground, any archaeological or historic site (PRC Section 5097.995)

2.3 California Health and Safety Code

Section 7050.5 of the California Health and Safety Code states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the remains are discovered has determined if the remains are subject to the Coroner's authority. If the human remains are of Native American origin, the Coroner must notify the Native American Heritage Commission (NAHC) within 24 hours of this identification.

2.4 California Public Resources Code §5097.98

Section 5097.98 of the California Public Resources Code states that the NAHC, upon notification of the discovery of Native American human remains, pursuant to Health and Safety Code §7050.5, shall immediately notify those persons (i.e., the Most Likely Descendant [MLD]) that it believes to be descended from the deceased. With permission of the landowner or a designated representative, the MLD may inspect the remains and any associated cultural materials and make recommendations for treatment or disposition of the remains and associated grave goods. The MLD shall provide recommendations or preferences for treatment of the remains and associated cultural materials within 48 hours of being granted access to the site.

2.5 Local Regulations

2.5.1 City of Manteca General Plan

Although the City of Manteca does not have a historic preservation ordinance with criteria for local designation, the General Plan, which was adopted in 2003, includes goals and polices relating to cultural resources (City of Manteca 2003). As presented in the Resource Conservation Element these include:

Section 8.12. Cultural Resources

The prehistory of the Manteca area is based on the archaeology of the greater Sacramento Delta region. Modern Manteca began as a railroad flag stop, Powell's Station, at the present location of downtown. Community life within Manteca's present city limits focused on the corner of Louise Avenue and Union Road.

Residential neighborhoods were beginning to fill in by 1918. The City of Manteca was incorporated on May 28, 1918. During the 1950's, the City grew even faster, as Manteca's inexpensive housing and small-town atmosphere drew workers from the Sharpe Army Depot in Lathrop and industrial plants in outlying areas.

Goal RC-11. Preserve and enhance Manteca's archaeological and historic resources for their aesthetic, educational and cultural values.

Goal RC-12. Protect Manteca's Native American heritage.

8.12.1 Policies: Cultural Resources

RC-P-37. The City shall not knowingly approve any public or private project that may adversely affect an archaeological site without consulting the California Archaeological Inventory at Stanislaus State University, conducting a site evaluation as may be indicated, and attempting to mitigate any adverse impacts according to the recommendation of a qualified archaeologist. City implementation of this policy shall be guided by the California Environmental Quality Act (CEQA) and the National Historic Preservation Act (NHPA).

RC-P-38. The City shall require that the proponent of any development proposal in an area with potential archaeological resources, and specifically near the San Joaquin River and Walthall Slough, and on the east side of State Highway 99 at the Louise Avenue crossing, shall consult with the California Archaeological Inventory, Stanislaus State University to determine the potential for discovery of cultural resources, conduct a site evaluation as may be indicated, and mitigate any adverse impacts according to the recommendation of a qualified archaeologist. The survey and mitigation shall be developer funded.

RC-P-39. The City shall set as a priority the protection and enhancement of Manteca's historically and architecturally significant buildings.

RC-P-40. The City shall work with property owners seeking registration of historical structures as Historic Landmarks or listing on the Register of Historic Sites.

RC-P-41. The City shall prepare and adopt a Historical Preservation Ordinance.

RC-P-42. The City and Redevelopment Agency shall support the efforts of property owners to preserve and renovate historic and architecturally significant structures. Where such buildings cannot be preserved intact, the City shall seek to preserve the building facades.

8.12.2 Implementation: Cultural Resources

RC-I-38. Require a records search for any proposed development project, to determine whether the site contains known archaeological, historic, or cultural resources and/or to determine the potential for discovery of additional cultural resources. This requirement may be waived if determined by the City that the proposed project site is already sufficiently surveyed.

RC-I-39. Require that sponsors of proposed development projects on sites where probable cause for discovery of archaeological resources (as indicated by records search and where resources have been discovered in the vicinity of the project) retain a consulting archaeologist to survey the project site. If unique resources, as defined by California State law, are found, a qualified archaeologist or historian shall be called to evaluate the find and to recommend proper action. Require a monitoring plan for the project to ensure that mitigation measures are implemented.

RC-I-40. When feasible, incorporate significant archaeological sites into open space areas.

RC-I-41. The City should continue its inventory of all historic sites throughout the City. The inventory should contain a narrative of the significant facts regarding the historic events or persons associated with the site, and pictures of the site.

RC-I-42. The City shall continue to support the local historical society in their efforts to:

- Archive historic information, including photographs, publications, oral histories, and other materials, and
- Make the information available to the public for viewing and research.

RC-I-43. All City permits for reconstruction or modification of existing buildings will require submittal of a photograph of the existing structure or site. The intent is to create a record of the buildings in the City over time. A photograph will also be required for vacant sites that will be modified with new construction of new buildings or other above ground improvements.

RC-I-44. Encourage the placement of monuments or plaques that recognize and celebrate historic sites, structures, and events.

RC-I-45. The City shall adopt and implement a historic building code, as authorized by state law.

RC-I-46. If human remains are discovered, California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made the necessary findings as to their origin and disposition pursuant to Public Resource code Section 5097.98. If the Coroner determines that no investigation of the cause of death is required, and if the remains are of Native American origin, the Coroner will notify the Native American Heritage Commission, which in turn will inform a most likely descendent. The descendent will then recommend to the landowner appropriate disposition of the remains and any grave goods.

3 Methods

This section presents the methods for each task completed during the preparation of this assessment.

3.1 Background and Archival Research

3.1.1 Archival Research

Rincon completed background and archival research in support of this assessment in January 2022. A variety of primary and secondary source materials were consulted, including, but not limited to, historical maps, aerial photographs, and written histories of the area. The following sources were utilized to develop an understanding of the project site and its context:

- Project plans from Kimley-Horn
- San Joaquin County Assessor's Office Property Records
- Historical aerial photographs and topographic maps accessed via NETR Online
- Historical aerial photographs obtained from Environmental Resources Data, Inc.
- Historical aerial photographs accessed via University of California, Santa Barbara Library FrameFinder
- City of Manteca Building Permits Accessed via the City of Manteca Building Safety Department

3.1.2 California Historical Resources Information System Records Search

On January 10, 2022, Rincon received California Historical Resources Information System (CHRIS) records search results (12028L) from the Central California Information Center (Appendix A). The Central California Information Center is the official state repository for cultural resources records and reports for the county in which the project falls. The purpose of the records search was to identify previously recorded cultural resources, as well as previously conducted cultural resources studies within the project site and a 1-mile radius surrounding it. Rincon also reviewed the NRHP, the CRHR, the California Historical Landmarks list, and the Built Environment Resources Directory (BERD), as well as its predecessor the California State Historic Property Data (HPD) File. Additionally, Rincon reviewed the Archaeological Determination of Eligibility (ADOE) list.

3.1.3 Sacred Lands File Search

Rincon contacted the NAHC on January 3, 2022, to request a search of the Sacred Lands File, as well as a contact list of Native Americans culturally affiliated with the project site. Appendix B provides the results of Rincon's outreach effort.

3.2 Field Survey

Rincon Archaeologist Laura Maldonado, BA, conducted a pedestrian survey of the project site on January 13, 2022. The pedestrian survey was conducted using transect intervals spaced 10 meters and oriented from east to west. Exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock [FAR]), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows were also visually inspected. Survey accuracy was maintained using a handheld GPS unit and a georeferenced map of the project site. Site characteristics and survey conditions were documented using field records and a digital camera. Copies of the survey notes and digital photographs are maintained at the Rincon Oakland office.

4 Natural and Cultural Setting

This section provides background information pertaining to the natural and cultural context of the project site. It places the project site within the broader natural environment which have sustained populations throughout history. This section also provides an overview of regional indigenous history, local ethnography, and post-contact history. This background information describes the distribution and type of cultural resources documented within the vicinity of the project site to inform the cultural resources sensitivity assessment and the context within which resources have been evaluated.

4.1 Natural Setting

The project site lies in San Joaquin County at an approximate elevation of 7.9 meters (26 feet) above mean sea level. None of the surrounding area retains its natural setting, with the project site located in a residential area characterized by a mix of single-family homes and apartment complexes. The property is currently undeveloped except in the northeastern portion which is developed with eight buildings as a home showcase for an adjacent residential development. The San Joaquin River is located approximately 2.5 miles west of the project site, and the Stanislaus River is approximately 6-miles south. Vegetation within the vicinity of the site consists of annual grasses, ornamental trees, including low ground cover and succulents, consistent with urban environmental settings, and has manicured landscapes.

The project site is underlain by Quaternary age, alluvial deposits, specifically one surficial geologic unit underlies the site: (Qaya) “light-gray to grayish-brown or yellowish-brown gravel, sand, silt, and clay” (Wahrhaftig, Stine, and Huber 1993). Materials are generally coarser near upland areas, grading downstream to finer materials and are found as stream-channel deposits, low stream terraces, and alluvial fans along major rivers and tributaries (Wahrhaftig, Stine, and Huber 1993). Because of the episodic nature of alluvial sedimentation, the sudden burial of artifacts is possible, and alluvial soils have an increased likelihood of containing buried archaeological deposits (Waters 1983, Borejaza et al. 2014).

4.2 Cultural Setting

4.2.1 Indigenous History

Prehistoric Setting

The Central Valley has been described as one of the largest intermontane basins extending 650 kilometers from the Siskiyou Mountains to the Tehachapis (Rosenthal et al. 2007). No single chronological framework covers the entirety of the Central Valley, but California prehistory is generally divided into three broad time periods: the Paleoindian period (ca. 11,550-8,550 B.C), the Archaic Period (8,550 BCE-CE 1100) and the Emergent Occupation (CE 1000- European Contact) (Fredrickson 1973, 1974) which has been updated and adjusted by Rosenthal et al. (2007) to further separate the Archaic Period into Lower (8550 BCE to 5550 BCE), Middle (5550 BCE to 550 BCE), and Upper (550 BCE to CE 1100. The prehistoric chronological sequence for the Central Valley presented below is based on Rosenthal et al. (2007) and Moratto (1984).

Paleoindian Period (11,550-8550 BCE)

Little is currently known about the Paleoindian period in the Central Valley. Geoarchaeological studies have demonstrated that erosion and deposition have buried or destroyed early archaeological deposits. Most claims of ancient human occupation have been dismissed by Moratto (1984) based on radiocarbon dating. This period is represented by isolated finds, and currently, the earliest accepted date of human occupation in the Central Valley ranges from 11,550 to 9,550 BCE and comes from fluted projectile points similar to Clovis points found at sites near Tracy Lake and the Tulare Lake Basin. Along with fluted projectile points, concave base points have been discovered along the Tulare Lake shoreline which was occupied during the Late Pleistocene (Rosenthal et al. 2007).

Lower Archaic (8,550-5,550 BCE)

Climate change at the end of the Pleistocene caused significant periods of alluvial deposition beginning around 9,050 BCE. These new alluvial deposits created a clear stratigraphic boundary between the Late Pleistocene and Holocene sediments. The Lower Archaic, like the Paleoindian Period, is represented only by limited isolated finds. Only one Lower Archaic site (KER-116) has been identified in the Central Valley proper and few in the foothills surrounding the valley (Rosenthal et al. 2007).

Typical Lower Archaic artifacts include flaked stone crescents and stemmed points, mostly along the shoreline of Tulare Lake. The identification of projectile points and a diverse faunal assemblage at KER-116 point to hunting being an important subsistence activity. However, milling tools and plant remains are largely absent in the valley, thus plant use during the Lower Archaic remains unclear. Several foothill sites contain milling implements and evidence of the use of nut crops such as acorn and pine (LaJeunesse and Pryor 1996). The relationship between foothill and valley floor adaptations is largely unknown during the Lower Archaic; however, it is suggested that the foothill sites may have been seasonally used during this time. More distinct adaptations are apparent in the Middle Archaic, and it is possible that these divergent traditions first emerged in the Lower Archaic (Rosenthal et al. 2007).

Middle Archaic (5,550-550 BCE)

The Middle Archaic began with substantial climate change to much warmer, drier conditions. Tulare Lake shrank and eventually disappeared. With this came new wetlands which created new habitats, and rising sea levels led to the creation of the Sacramento-San Joaquin Delta, creating new deposits. Fans and floodplains stabilized after an initial period of deposition in 5,550 BCE. Archaeological deposits dating to the Middle Archaic are rare in the Central Valley proper due to these geomorphic changes. The Middle Archaic record has revealed a pattern of organized subsistence strategies and increased residential stability. The archetypal pattern of the Middle Archaic has been identified as the Windmiller Pattern. This pattern is represented by extended burials oriented to the west and a sophisticated material culture (Rosenthal et al. 2007). Middle Archaic sites are relatively common in the foothills surrounding the Central Valley and show relatively little change from the Lower Archaic (McGuire 1995).

During this time, the mortar and pestle become more widespread suggesting a shift toward more intensive subsistence practices and higher reliance on the acorn. Fishing technologies, such as bone gorges, hooks, and spears, also appear during the Middle Archaic suggesting a new focus on fishing, especially in the Marsh Creek area. Several other technologies become apparent during this time. Baked-clay impressions of twined basketry, simple pottery, and other baked clay objects have been

found at several sites. Personal adornment items also become more frequent. Exchange with outside groups is evidenced by the presence of obsidian, shell beads and ornaments (Rosenthal et al. 2007; Moratto 1984; Burns et al. 2016). Trade also seemed to be focused on utilitarian items such as obsidian or finished obsidian tools from at least five separate sources (Moratto 1984).

Upper Archaic (550 BCE – CE 1100)

The Upper Archaic began with the onset of the Late Holocene, marked by a cooler, wetter climate. The environmental conditions of the Upper Archaic were characterized by the return of lakes that had disappeared during the Middle Archaic and a renewed fan and floodplain deposition. The Upper Archaic is better represented in the archaeological record than earlier periods. Cultural diversity was more pronounced and is marked by contrasting material cultures throughout the valley (Rosenthal et al. 2007).

During this period, numerous specialized technologies were developed such as bone tools, and implements, manufactured goods such as *Olivella* and *Haliotis* beads and ornaments, well-made ceremonial blades, and ground-stone plummets. People living in the San Joaquin Valley region traded with neighboring groups for obsidian.

Upper Archaic period economies varied by region throughout the Central Valley. Economies were primarily focused on seasonal resources such as acorns, salmon, shellfish, rabbits, and deer (Rosenthal et al. 2007).

Emergent Occupation (CE 1000- Historic)

The stable climatic conditions of the Upper Archaic continued into the Emergent Period. There has been sporadic research in the San Joaquin Valley on this time period, and thus only the Pacheco Complex on the western edge of the valley has been formally defined. After CE 1000, many of the technologies witnessed during the Archaic disappeared to be replaced by cultural traditions witnessed at European contact. During the Emergent Period, the bow and arrow replaced the atlatl as the preferred hunting method sometime between CE 1000 and 1300.

Increased social complexity is evidenced by increased variation in burial types and offerings and larger residential communities. Grave offerings such as shell beads, ornaments, and ritually “killed” mortars and pestles are often found in burials. Pottery was frequently obtained through trade with groups living in the foothills to the east. The Panoche side-notched point became important in the western side of the San Joaquin Valley (Rosenthal et al. 2007). In addition to the side-notched point, the Panoche Complex featured large circular structures, flexed burials, marine shell beads, bone awls, millingstones, and mortars and pestles (Moratto 1984).

As with the Archaic Period, Emergent Period economies varied geographically, though throughout the Central Valley fishing and plant harvesting increased in importance. Most Emergent residential sites contain diverse assemblages of mammal and bird remains and large amounts of fish bone. After 1,000 years ago, the mortar and pestle become the dominant tool type and small seeds increase in archaeological deposits over time (Rosenthal et al. 2007).

4.2.2 Ethnographic Setting

The project site is located in the traditional tribal territory of the Coastal Miwok, members of the larger Miwokan subgroup of the Utian language family inhabiting the northern area of Sherman

island surrounding Mount Diablo (Kroeber 1925; Levy 1977). Miwok territory is bordered by the Pomo to the north, Wappo to the northeast, and Patwin to the east.

Miwok settlements typically included thatched, conical houses and semi-subterranean earth-covered dwellings in winter, constructed by higher-status families. Houses generally had a central hearth and an earth oven for cooking purposes. Large, semi-subterranean assembly houses were constructed for use as a ritual and social gathering place. In summer, a circular brush hut was constructed for use in mourning ceremonies. Other structures included sweathouses for curing disease and purification prior to hunting, small conical structures used by menstruating women, and grinding houses built over bedrock mortars to permit food processing in inclement weather. Acorn granaries were constructed for long-term acorn storage (Kroeber 1925; Levy 1977).

Miwok social organization followed the moiety pattern, with all living things belonging to one of two categories: land and water. Moieties were exogamous typically and played an important role in many ceremonies (Levy 1977). On the other hand, political organization centered on small tribelets of approximately 300 to 500 people and several distinct settlements. A chief headed each tribelet, and a representative of the chief each settlement had oversight of local affairs. Chiefs acted as advisors and managed use of natural resources by preventing trespassing on tribelet territory and determining the appropriate time to begin the acorn harvest each season. The chief also arbitrated any disputes and sanctioned the punishment of criminal offenders (Kroeber 1925; Levy 1977).

The Miwok made both twined and coiled basketry, usually from will and redbud. They also manufactured tule mats used as floor covering. Woven blankets were often made of rabbit skin strips or feathers attached to cordage woven from plant fibers. Tule balsa rafts were crafted and used to navigate rivers and sloughs (Levy 1977).

Miwok subsistence practices centered on the use of acorns and other seeds as primary plant food sources and on hunting of mule deer, tule elk, pronghorn antelope, and various species of waterfowl. Hunting was done typically with a sinew-backed bow and arrow. Fishing was a particularly important activity for the Miwok, primarily with various types of nets. Seines were used in large rivers and sloughs where the pace of water flow was slow Hook and line was typically used to take sturgeon, while harpoons were the most common implement for salmon fishing (Levy 1977).

The Coast Miwok were exploited for labor by Mission Dolores, established in 1800, and later by the Mexican land grant holders. The Coast Miwok population had a dramatic decline. After the establishment of the United States, the Coast Miwok were legally prevented from owning land in their traditional territories. Despite this, Coast Miwok continue to populate the Marin area (Federated Indians of Graton Rancheria 2016).

4.2.3 Post-Contact Setting

The historic context for the City of Manteca was excerpted from the City of Manteca:

> "Manteca itself is a relatively young town, first settled by a few pioneer farmers in the heart of one of the greatest agricultural areas in the world. A combination of good soil, excellent climate, and clean water has insured its destiny as a prosperous farming center. There was little activity in Manteca that was not related to agriculture until World War II. Changes came slowly up through the 1970's, but today Manteca is shedding much of its old image with new high-tech industries. It has become a "bedroom community" for the industrial sites west of the Altamont Pass.

Before the first settlers came, there were few Indians living permanently here on what was then known as the “sand plains”. As the California Gold Rush subsided, permanent settlers came to the area. On the first large land holdings, the principal productions were grain and cattle. During this period, this valley settlement was called Cowell Station, named after Joshua Cowell who was later known as the “father of Manteca”. Joshua Cowell crossed the plains in 1861 and took up land in what has become the center of town, locating on the corner of what is now Yosemite and Main, where the Bank of America and its parking lot now stands. At one time he owned most of Manteca with a claim to 1,000 acres and he rented another 1,000. He had the honor of being the first Mayor when the town was incorporated in 1918.

In 1873, when the Central Pacific Railroad went through this area, the track was laid through the center of the Cowell Farm. At first, the train stopping point was merely a boxcar called Cowell Station. Because there was another Cowell Station south of Tracy named after Wright Cowell, a brother of Joshua, the railroad and the farmers agreed to a name change. The new name chosen was Monteca. The citizens of the town were justly dismayed when the railroad printed the first tickets and found the name misspelled, “Manteca” (Spanish for “lard”). Many of the towns people were unhappy with the error, but it was never corrected.

In 1902, J.J. Overshiner built the first store building which was occupied by a general store and barber shop. The residential area of the city consisted of only a few homes by 1910, with the population at about 100. Shortly after the opening of the first store, the citizens petitioned for a post office.

Cost-effective, reliable irrigation was essential for the development of the area. It was slow in coming but finally in 1909, an election was held to form the South San Joaquin Irrigation District and to authorize a bond issue. The bonds were not issued until 1913. Irrigation water was diverted from the Stanislaus River about 18-miles northeast of Oakdale. The district built all the lateral ditches and prepared to deliver water to every 40-acre tract. That was the town’s real beginning of growth.

East Union Cemetery is one of the oldest landmarks of the entire county. The cemetery dates back to 1872 and was incorporated in 1877. Manteca’s first school was built in 1857. The name given was East Union (to distinguish from Union School in Lathrop). In 1913, the school was destroyed by fire. After many years of discussion, the first local high school classes met in huts in 1920. Previously, many students attended high school in Stockton via train. On January 26, 1923, the new high school building was dedicated and it remained a city landmark until it met the wrecking ball in 1969.

The Manteca Canning Company was organized in 1914 and was in operation almost continuously until closing in 1964. Spreckels Sugar Company was constructed in 1916. Sadly, the company closed the plant. The first cheese factory was established in 1921 and the Kraft Company opened a plant in 1935 which operated until 1957. Other manufacturing and non-manufacturing companies include Sharpe Army Depot, Libbey Owens Ford, Simplot, Olin Industries, etc.

Manteca Hospital opened an 18-room facility on the corner of Yosemite and Sequoia in 1919. It operated only a few years and is now a homeless shelter. After many years without a hospital, a new 49-bed facility was built on Cottage Avenue in 1962. It has been expanded to 73 beds with complete services. Kaiser opened their hospital in 2005. Kaiser Permanente opened a clinic in 1998.

Today Manteca has over 72,000 residents and is the home of Big League Dreams, Bass Pro Shop, Costco, Walmart and many other amenities attracting thousands of tourist each year" (City of Manteca 2022).

5 Findings

5.1 Known Cultural Resources

The CHRIS records search and background research identified 34 cultural resources within a 1-mile radius of the project site. Resources recorded in the search radius are listed in Appendix A. All 34 cultural resources were historic-period archaeological and built environment sites. No resources were recorded within the project site; however, one resource, P-39-005337, was recorded adjacent to the project site.

5.1.1 P-39-005337

P-39-005337, also known as the Tesla-Salsado-Manteca 115 kV Transmission Line, was recorded in 2017 by Matt Walker of Cardno Inc. as part of an evaluation for a tower replacement project (Walker 2017). The resource runs north-south along Airport Way directly adjacent to the eastern edge of the current project site. Walker found the transmission line ineligible for listing in the NRHP and CRHR due to a lack of significance.

5.2 Known Cultural Resources Studies

The CHRIS records search and background research identified 29 cultural resources studies within 1-mile of the project site (Appendix A). Of these studies, two included a portion of the project site. Approximately 10 percent of the project site has been previously studied and surveyed within the last 20 years. Known studies that occurred within or adjacent to the project site are discussed in further detail below.

5.2.1 Study SJ-01900

Study SJ-01900, also known as *A Preliminary Cultural Resources Investigation of the South Manteca Area Plan, 7,800 acres in San Joaquin County, California,* was prepared by Kyle Napton of California State University, Stanislaus Institute for Archaeological Research in 1993 as an overview and preliminary assessment of the cultural resources sensitivity in the proposed South Manteca Area Plan Project (Napton 1993). The study stated the east side of the subject project site adjacent to Airport Road was sensitive for cultural resources, but it did not explicitly state what cultural resources could be in the project site. The cultural resources identified by the study are not located on the current project site; however, the closest resources are the Rustic School, addressed as 21011 South Airport Way, approximately 0.80-miles south of the project site and a historic-age farmhouse, 20319 South Union Road, approximately 1-mile southeast of the project site.

5.2.2 Study SJ-4786

Prepared by Ric Windmiller in 2002, Study SJ-4786 titled *City of Manteca General Plan Update Background Reports: Archaeological Resources, Historical Resources, Records Search Results* provided a general context of the significance of the cultural resources in the City of Manteca (Windmiller 2002). The study did not identify any cultural resources within the subject project site.

Study SJ-4786 also documented the Rustic School and historic-age farmhouse as the closest cultural resources to the current project site.

5.3 Aerial Imagery and Historical Topographic Maps Review

Rincon completed a review of historical topographic maps and aerial imagery to ascertain the development history of the project site. Historical topographic maps from 1915 to 1965 depict the area as rural and agricultural with a single building shown in the project site (NETRonline 2022). A 1968 aerial depicts the project area in an agricultural setting and several buildings are depicted along Airport Way, formally known as Ferry Road. The buildings were most likely farming and livestock related. The buildings are depicted on aerials and topographic maps until the 1980s when a 1982 aerial of the surrounding area and the 1987 *Stockton, CA* topographic map showed the project site depicted as vacant, with State Route 120 shown as adjacent to the property (NETRonline 2022). The surrounding area remained largely rural until circa 2005 when large single-family developments were constructed to the south, north, and east of the project site (NETRonline, 2022). By 2009, a commercial center and the Big League Dreams baseball stadium complex were constructed north of SR 120 (NETRonline, 2022). The area has remained mostly unchanged since 2009 except for the construction of residential communities south of the project site (NETRonline, 2022).

5.4 Sacred Land File Search

On January 20, 2022, the NAHC responded to Rincon's contacts request and SLF request, stating that the results of the SLF search were negative. See Appendix B for the NAHC response, including Tribal contacts list(s).

5.5 Survey Results

Rincon Archaeologist Laura Maldonado conducted a pedestrian survey of the project site on January 13, 2022. The site was predominantly flat and was accessed via the turnout on South Airport Way. Ground visibility was good (61% to 75%) with approximately 70% total ground exposure. Vegetation is concentrated at the center of the project location with dry annual grasses. The soil consists of a fine brown sandy loam that had been previously disturbed by agricultural activities. Modern refuse was observed throughout. There was no evidence of the agricultural structures identified by the historical map review along Airport Way. Seven concrete features (Squares 1-7) and two concrete pipes (Pipes 1 and 2) of unknown age were observed parallel to the fence line at the northern boundary line of the site. The features appear to be in situ based on the depth of the features and may be related to irrigation activities. According to the *FHWA Section 106 Programmatic Agreement*, cultural resources with no potential for historical significance that would be negatively affected by the project are exempted from further evaluation or consideration (Federal Highway Administration 2022). Following these standards, the seven concrete features fall under Property Type 1, Minor, ubiquitous, or fragmentary infrastructure elements (Federal Highway Administration 2022). Rincon completed additional historical map research and a study of aerial photographs and the results did not identify any association that would confer significance. Therefore, it is Rincon's professional opinion that these features are not eligible for listing and are not significant resources based on the minor, ubiquitous, and fragmentary nature of infrastructure elements.

The northwestern portion of the site is developed and consists of eight buildings, addressed as 2303 W. Atherton Drive, that serve as a home showcase, constructed in October 2006. This northwestern portion is separated from the southeastern portion of the site by a plastic and chain link fence.

No archaeological resources were identified during the field survey. Photographs of the project site are provided in Appendix C.

6 Impacts Analysis and Conclusions

The impact analysis included here is organized based on the cultural resources thresholds included in CEQA Guidelines Appendix G: Environmental Checklist Form:

a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?
b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?
c) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Threshold A broadly refers to historical resources. To more clearly differentiate between archaeological and built environment resources, we have chosen to limit analysis under Threshold A to built environment resources. Archaeological resources, including those that may be considered historical resources pursuant to Section 15064.5 and those that may be considered unique archaeological resources pursuant to Section 21083.2, are considered under Threshold B.

6.1 Historical Built Environment Resources

The field survey and background research did not identify any built environment resources that may be considered historical resources within the project site. The project therefore does not have the potential to impact built environment historical resources and Rincon recommends a finding of ***no impact to historical resources*** pursuant to CEQA.

6.2 Historical and Unique Archaeological Resources

This assessment did not identify any archaeological resources or archaeological deposits in the project site. The lack of surface evidence of archaeological materials does not preclude their subsurface existence. However, the absence of substantial prehistoric or historic-period archaeological remains within the immediate vicinity, along with the existing level of disturbance in the project site, suggest there is a low potential for encountering intact subsurface archaeological deposits. Rincon presents the following recommended mitigation measure for unanticipated discoveries during construction. With adherence to this measure, Rincon recommends a finding of ***less-than-significant impact with mitigation for archaeological resources*** under CEQA.

6.2.1 Recommended Mitigation

Unanticipated Discovery of Cultural Resources

In the unlikely event that archaeological resources are unexpectedly encountered during ground-disturbing activities, work in the immediate area should be halted and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the find is prehistoric, then a Native American representative should also be contacted to participate in the evaluation of the find. If necessary, the evaluation may require preparation of a treatment plan and archaeological testing

for CRHR eligibility. If the discovery proves to be eligible for the CRHR and cannot be avoided by the modified project, additional work, such as data recovery excavation, may be warranted to mitigate any significant impacts to historical resources.

6.3 Human Remains

No human remains are known to be present within the project site. However, the discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County Coroner must be notified immediately. If the human remains are determined to be of Native American origin, the Coroner will notify the Native American Heritage Commission, which will determine and notify the MLD. The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance. With adherence to existing regulations, Rincon recommends a finding of ***less-than-significant impact to human remains*** under CEQA.

7 References

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Appendix A

California Historical Resources Information System Record Results

Table 1 Previous Cultural Resources Studies within 1-Mile of the Project Area

Report Number	Author	Year	Title	Relationship to Project Area
SJ-00729	Chavez, D.	1981	Cultural Resource Evaluation for the Manteca Wastewater Project, San Joaquin County, California.	Outside
SJ-01900	Napton, L. K.	1993	A Preliminary Cultural Resources Investigation of the South Manteca Area Plan, 7,800 acres in San Joaquin County, California.	**Within**
SJ-04090	Peak & Associates, Inc.	1999	Cultural Resource Assessment of the Wastewater Quality Control Facility, City of Manteca, San Joaquin County, California	Outside
SJ-04091	Peak & Associates, Inc.	2000	Cultural Resource Assessment of the Wastewater Quality Control Facility, City of Manteca, San Joaquin County, California	Outside
SJ-04786	Windmiller, Ric and Donald Napoli	2002	City of Manteca--General Plan Update, Background Reports: Archaeological Resources, Historical Resources, Records Search Results.	**Within**
SJ-04896	Windmiller, Ric and Donald Napoli	2003	Airport Way-Yosemite Avenue Specific Plan, Background Reports: Archaeological Resources, Historical Resources, Records Search Results.	Outside
SJ-04896A	Napoli, D.	2003	Airport Way-Yosemite Avenue Specific Plan; Background Report on Historical Resources	Outside
SJ-04896B	Windmiller, R.	2003	Airport Way-Yosemite Avenue Specific Plan; Appendix: Records Search Results Archaeological and Historic Resources	Outside
SJ-04901	Windmiller, R. and D. Napoli	2003	Southwest Manteca Area Specific Plan, Background Reports: Archaeological Resources, Historical Resources, Records Search Results.	Outside
SJ-05309	Baloian, M., R. Baloian, and W. Nettles	2004	Cultural Resources Investigations for the South San Joaquin Irrigation District in San Joaquin County, California.	Outside
SJ-06322	Jensen, S.	2006	Archaeological Inventory Survey, Manteca Annexation Project, c. 60 acres Adjacent to Union Road and S.R. 120, San Joaquin County, California.	Outside
SJ-06506	ECORP Consulting, Inc.	2006	Cultural Resources Survey Report South Lathrop, North Village, San Joaquin County, California Project 2006-011	Outside
SJ-06625	ASI Archaeology and Cultural Resource Management	1998	Cultural Resources Survey, South County Surface Water Project, San Joaquin County, California, South San Joaquin Irrigation District	Outside
SJ-06925	Dougherty, J.	2008	Cultural Resources Constraints Study for the Replacement of 6 Poles on the Tesla-Saludo-Manteca High Voltage Transmission Line. Stanislaus and San Joaquin Counties, California.	Outside

Report Number	Author	Year	Title	Relationship to Project Area
SJ-07063	Jensen, S. M.	2009	Archaeological Inventory Survey Gateway Business Park Project San Joaquin, County, CA	Outside
SJ-07444	Jensen, S. and S. Jensen	2010	Archaeological Inventory Survey Gateway Business Park Project, c. 384 acres & 1.5-mile off site Storm Drain Pipeline, City of Lathrop, San Joaquin County, CA	Outside
SJ-07465	Shephard, A.	2011	Cultural Resources Inventory and Evaluation Report for the Phase 3 Reclamation District 17 100-Year Levee Seepage Area Project	Outside
SJ-07581	Sikes, N. E. and C. J. Arrington	2012	An Archaeological Survey for the Department of Water Resources' Geotechnical Levee Investigation of Walthal Slough Dry Land Levee, San Joaquin County, California	Outside
SJ-07760	Martorana, D.	2012	Letter Report: Verizon Cellular Communications Tower Site, West Manteca, 1009 S. Airport Way (APN: 241-310-48), Manteca, San Joaquin County, CA 95337.	Outside
SJ-07769	Jones & Stokes	2007	Draft: Cultural Resources Inventory and Evaluation Report for the Machado Development Project, San Joaquin County, California. [Appendix B with Site Records not attached]	Outside
SJ-07770	Holman, M. P.	2013	Letter Report: Cultural Resources Study of the Machado Property, 20329 South Airport Parkway, Manteca, San Joaquin County, California, APN 241-320-18.	Outside
SJ-07884	Jordan, N.	2014	Historic Property Survey Report for the SR-120/McKinley Avenue Interchange Project, City of Manteca, San Joaquin County, California, 10-SJ-120, P.M. 2.2, EA 10-0H890	Outside
SJ-07886	Kaptain, N.	2013	Archaeological Survey Report for the SR-120/McKinley Avenue Interchange Project, City of Manteca, San Joaquin County, California, 10-SJ_120, P.M. 2.2, EA 10-0H890	Outside
SJ-07887	Meyer, J., and N. Jordan	2014	Extended Phase I Report, SR-120/McKinley Avenue Interchange Project, San Joaquin County, California, Caltrans District 10 EA #10-0H890	Outside
SJ-07888	Hibma, M.	2013	Historical Resources Evaluation Report for the State Route 120/McKinley Avenue Interchange Project, City of Manteca, San Joaquin County, California, `10-SJ-120, P.M. 2.2, EA 10-0H890, Caltrans District 10, Federal Project No. CML (5089(016)	Outside
SJ-08023	Barrow, E., and J. M. Loyd	2010	A Cultural Resources Survey for the Terra Ranch Subdivision Project, Manteca, San Joaquin County, California.	Outside
SJ-08362	Peak, M., Gerry, R., and Lawson, M.	2014	Cultural Resource Assessment for the Manteca Family Entertainment Zone, City of Manteca, San Joaquin County, California.	Outside
SJ-08889	Peak & Associates, Inc.	2018	Determination of Eligibility and Effect for the Proposed Oakwood Trails Subdivision, City of Manteca, San Joaquin County, California	Outside

Report Number	Author	Year	Title	Relationship to Project Area
SJ-08979	Roper, C. K.	2017	A Cultural Resources Assessment for the Proposed Nile Garden School Water Supply Project, 5700 E. Nile Road, Manteca, San Joaquin County, California	Outside
SJ-09247	Falke, M. and K. Vallaire	2017	Supplemental Archaeological Survey Report, State Route 120 at Union Road Interchange Project, Manteca, San Joaquin County, California; 10-SJ-120, P.M. 3.4/5.2, EA 10-0P200, ID 10-0000-0182	Outside
SJ-09252	Vallaire, K., Sanchez, R., LSA and Falke, M.	2018	Cultural Resources Study, Airport Way Widening Project, Manteca, San Joaquin County, California	Outside

Source: Central Information Center, 2022

Table 2 Known Cultural Resources

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	Eligibility Status	Relationship to Project Site
P-39-004612	-	Historic - Building	HP02	2006 (M. Guerrero, ECORP Consulting, Inc.)	Unevaluated	Outside
P-39-005046	-	Historic Building	HP15 Rustic School	1991 (San Joaquin County Superintendent of Schools, Public Schools of San Joaquin County 1852-1990 (1991))	Unevaluated	Outside
P-39-005086	-	Historic Structure	HP11 Walthal Slough Dry Land and Levee	2008 (Brian Ludwig, AECOM); 2012 (Cindy Arrington, Parus Consulting, Inc)	Recommended Ineligible 2008	Outside

P-39-005090	-	Historic Building	HP15 Elliott (Brock) School	1991 (San Joaquin County Superintendent of Schools, Public Schools of San Joaquin County 1852-1990 (1991))	Unevaluated	Outside
P-39-005156	CA-SJO-000341H	Historic Site	AH02; AH04; AH11 19119 McKinley Avenue	2013 (N. Kaptain and M. Hibma, LSA Associates, Inc.); 2013 (N. Kaptain, LSA Associates, Inc.)	6Y	Outside
P-39-005157	-	Historic Building	HP02; HP04; HP33 18871 McKinley Avenue	2012 (Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005158	-	Historic Structure	HP11 Schulte-Kasson line	2013 (Hibma, LSA Associates, Inc.); 2018 (Vaillare, LSA Associates, Inc.)	6Z	Outside
P-39-005159	-	Historic Building	HP02; HP04 19020 McKinley Avenue	2012 (Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005160	-	Historic Building, Structure	HP04; HP22 9160 McKinley Ave.	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005161	-	Historic Building	HP02; HP04 19365 McKinley Ave., Duvan Kennel	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005162	-	Historic Building	HP02; HP04 19465 McKinley Ave.	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside

P-39-005163	-	Historic Building	HP02; HP04; HP11 9589 McKinley Ave.	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005164	-	Historic Building	HP02; HP04 2693 Bronzan Rd.	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005165	-	Historic Building	HP02 2785 Bronzan Rd.	2012 (M. Hibma, LSA Associates, Inc.)	6Y	Outside
P-39-005337	-	Historic Structure	HP11 Tesla-Salado-Manteca 115 kV Transmission Line	2017 (M. Walker, Cardno, Inc., for PG&E)	Recommended Ineligible 2017	Outside
P-39-005415	-	Historic Building	HP02 625 S. Airport Way	2018 (Vallaire, K., LSA)	6Z	Outside
P-39-005416	-	Historic Building	HP02 626 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005417	-	Historic Building	HP02 721 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005418	-	Historic Not Identified	HP02 739 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005419	-	Historic Building	HP02 892 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005420	-	Historic Building	HP02 926 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005421	-	Historic Building	HP02 950 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005422	-	Historic Building	HP02 1083 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005423	-	Historic Site	AH02 2110 W. Yosemite Ave.	2018 (Falke, LSA)	Recommended Ineligible 2018	Outside

P-39-005424	-	Historic Building	HP02 223 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005425	-	Historic Building	HP02 251 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005426	-	Historic Building	HP02 262 & 264 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005427	-	Historic Building	HP02 273 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005428	-	Historic Building	HP03 334 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005429	-	Historic Building	HP02 358 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005430	-	Historic Building	HP02 400 & 402 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005431	-	Historic Building	HP02 422 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005432	-	Historic Building	HP03 444 & 450 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside
P-39-005433	-	Historic Building	HP02 579 S. Airport Way	2018 (Vallaire, LSA)	6Z	Outside

Source: Central Information Center, 2022

Appendix B

Native American Heritage Commission Sacred Lands File Request Results

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Sara Dutschke
Miwok

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

January 20, 2022

Dustin Merrick
Rincon Consultants Inc.

Via Email to: dmerrick@rinconconsultants.com

Re: KH Maverick Manteca Retail Project, San Joaquin County

Dear Mr. Merrick:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cameron.Vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Joaquin County
1/20/2022

Buena Vista Rancheria of Me-Wuk Indians
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200 — Me-Wuk
Sacramento, CA, 95811
Phone: (916) 491 - 0011
Fax: (916) 491-0012
rhonda@buenavistatribe.com

California Valley Miwok Tribe
AKA Sheep Rancheria of Me-Wuk Indians of CA,
P.O. Box 395 — Miwok
West Point, CA, 95255
Phone: (209) 293 - 4179
l.ewilson@yahoo.com

California Valley Miwok Tribe
14807 Avenida Central — Miwok
La Grange, CA, 95329
Phone: (209) 931 - 4567
Fax: (209) 931-4333

Ione Band of Miwok Indians
Sara Dutschke, Chairperson
9252 Bush Street — Miwok
Plymouth, CA, 95669
Phone: (209) 245 - 5800
consultation@ionemiwok.net

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano, Vice Chairwoman
20885 Redwood Road, Suite 232 — Costanoan
Castro Valley, CA, 94546
Phone: (408) 205 - 9714
marellano@muwekma.org

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 887 - 3415 — Yokut
canutes@verizon.net

North Valley Yokuts Tribe
Timothy Perez,
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 662 - 2788 — Yokut
huskanam@gmail.com

Tule River Indian Tribe
Neil Peyron, Chairperson
P.O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 781 - 4271
Fax: (559) 781-4610
neil.peyron@tulerivertribe-nsn.gov

Tule River Indian Tribe
Joey Garfield, Tribal Archaeologist
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
joey.garfield@tulerivertribe-nsn.gov

Tule River Indian Tribe
Kerri Vera, Environmental Department
P. O. Box 589 — Yokut
Porterville, CA, 93258
Phone: (559) 783 - 8892
Fax: (559) 783-8932
kerri.vera@tulerivertribe-nsn.gov

Wilton Rancheria
Jesus Tarango, Chairperson
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 683-6015
jtarango@wiltonrancheria-nsn.gov

Wilton Rancheria
Steven Hutchason, THPO
9728 Kent Street — Miwok
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
Fax: (916) 863-6015
shutchason@wiltonrancheria-nsn.gov

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed KH Maverick Manteca Retail Project, San Joaquin County.

Wilton Rancheria
Dahlton Brown, Director of Administration
9728 Kent Street
Elk Grove, CA, 95624
Phone: (916) 683 - 6000
dbrown@wiltonrancheria-nsn.gov

Miwok

Wuksache Indian Tribe/Eshom Valley Band
Kenneth Woodrow, Chairperson
1179 Rock Haven Ct.
Salinas, CA, 93906
Phone: (831) 443 - 9702
kwood8934@aol.com

Foothill Yokut
Mono

The Confederated Villages of Lisjan
Corrina Gould, Chairperson
10926 Edes Avenue
Oakland, CA, 94603
Phone: (510) 575 - 8408
cvltribe@gmail.com

Bay Miwok
Ohlone
Delta Yokut

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed KH Maverick Manteca Retail Project, San Joaquin County.

Appendix C

Survey Photographs of the Project Site

Photograph 1 Project Site; View West

Photograph 2 Square 1 Concrete Feature; View Northwest

Photograph 3 Concrete Pipe and Base 1; View Northeast

Photograph 4 Square 2 with hole in center; View North

APPENDIX F

ENERGY CALCULATIONS MODELING DATA

Construction Fuel

On-Site Diesel[1]	$MTCO_2e$	Gallons of Fuel[4]	2022 County Fuel	Percent Increase Countywide
Demolition	34	3,350		
Site Preparation/Grading	108	10,640		
Building Construction	326	32,118		
Paving	20	1,970		
Architectural Coating	11	1,084		
Total	499	49,163	**98,195,375.73**	0.0501%
Off-Site Diesel[1]				
Demolition	0	0		
Site Preparation/Grading	0	0		
Building Construction	255	25,123		
Paving	0	0		
Architectural Coating	0	0		
Total	255	25,123	**98,195,375.73**	0.0256%
Off-Site Gasoline[2]				
Demolition	1	114		
Site Preparation/Grading	4	407		
Building Construction	199	22,588		
Paving	1	114		
Architectural Coating	11	1,249		
Total	216	24,471	**287,745,040**	0.0085%
Total Diesel Fuel		**74,286**	98,195,376	0.0757%
Total Gasoline Fuel		**24,471**	287,745,040	**0.0085%**
Total Construction Fuel	970	**98,757**		

Construction Phase[3]	**Demolition**			**Site Preparation**			**Grading**		
	On-Site Diesel (Off-Road)	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**
2022	34	0	1	17	0	1	91	0	3
2023									
Total	**34**	**0**	**1**	**17**	**0**	**1**	**91**	**0**	**3**
Construction Phase[3]	**Building Construction**			**Paving**			**Architectural Coating**		
	On-Site Diesel (Off-Road)	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**
2022	58	47	36	0	0	0	0	0	0
2023	268	208	163	20		1	11		11
Total	**326**	**255**	**199**	**20**	**0**	**1**	**11**	**0**	**11**

Notes:

[1] Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

[2] Fuel used for worker trips assumed to be gasoline.

[3] $MTCO_2e$ rates from CalEEMod (3.0 Construction Details).

[4] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Operational Fuel

Vehicle Type	Percent[1]	Annual VMT[2]	MGP[3]	Annual Fuel	Fuel Type	County Gallons[4]	County Percent		Statewide	Statewide percent
Passenger Cars	0.5920	7,571,339	21.6	**350,525**	Gas	284,968,748	0.1230%		14,773,931,520	0.0024%
Light/Medium Trucks	0.15000	1,918,414	17.2	111,536	Diesel	98,291,520	**0.0232%**	0.6638%	3,625,305,260	0.0031%
Heavy Trucks/Other	0.26	3,299,671	6.1	540,930	Diesel	98,291,520	**0.1123%**			
Total	1.000	**12,789,424**		**652,465**		481,551,788				

Notes:

[1] Percent of vehicle trip distribution based on fleet mix from CalEEMod (4.4 Fleet Mix).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod (4.2 Trip Summary Information).

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2017 model of projected operational fuel usage.

Electricity and Natural Gas

	Mitigated Project Annual Energy	County Annual Energy[3]	Percentage Increase
Electricity (kWh/yr)	4,086,621	**5,736,910,204**	**0.0712%**
Electricity (MWh/yr)	4,087	**5,736,910**	0.0712%
Electricity (GWh/yr)	**4.087**	**5,737**	**0.0712%**
Adjusted Electricity (GWh/yr)	**10.502**	**5,737**	**0.1831%**
Natural Gas (million therms)		**184**	
Natural Gas (kBTU/yr)	8,388,433	**18,394,986,800**	**0.0456%**
Natural Gas (therms)	83,884	183,949,868.00	0.0456%

Land Use	**Electricity[1] (kWh/yr)**		**Natural Gas[2] (kBTU/yr)**	
	Unmitigated	**Mitigated**	**Unmitigated**	**Mitigated**
Automobile Center	16560	16560	3.69E+04	3.69E+04
Gas Station	69357	69357	70638	70638
Fast Food	274765	274765	975639	975639
Hotel	1.17E+06	1.17E+06	4.80E+06	4.80E+06
Parking	9260	9260	0	0
Shopping Center	371799	371799	378666	378666
Supermarket	2.18E+06	2.18E+06	2.12E+06	2.12E+06
Total Energy	**4,086,621**	**4,086,621**	**8,388,433**	**8,388,433**

Notes:

[1] Electricity use per CalEEMod (5.3 Energy by Land Use).

[2] Natural Gas use per CalEEMod (5.2 Natural Gas by Land Use).

[3] County total energy values from California Energy Commission energy reports available through ecdms.energy.ca.gov.

Construction Water

Daily Soil Disturbance[1]	**105**	acres
Days of Soil Disturbance[2]	**40**	days
Water Concentration[3]	3,020	gallons/acre
Water Energy Intensity[4]	3,500	kWh/MG
Total Construction Water	**12.68**	million gallons
Construction Water Energy	**44,394**	kWh
	44.3940	MWh
Percentage Increase Countywide	0.000774%	

Notes:

[1] Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Detail) and maximum SCAQMD LST values for soil-disturbing equipment.

[2] Number of days of construction with soil-disturbing equipment per CalEEMod (3.0 Construction Detail).

[3] Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.

[4] Water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343.

Operational Water

Mitigated Indoor	12	million gallons
Indoor Energy Intensity Factor[1]	5,411	kWh/MG
Mitigated Outdoor	2	million gallons
Outdoor Energy Intensity Factor[2]	3,500	kWh/MG
Operational Water Energy	**75451.95**	kWh
Operational Water Energy	75.45195	MWh
Operational Water Energy	**0.07545195**	GWh
Percentage Countywide	0.0013%	
Total water use	**15**	million gallons

Land Use[3]	**Unmitigated (MG)**		**Mitigated (MG)**	
	Indoor	**Outdoor**	**Indoor**	**Outdoor**
Automobile Center	0	0	0	0
Gas Station	0	0	0	0
Fast Food	3	0	2	0
Hotel	3	0	3	0
Parking	0	0	0	0
Shopping Center	2	1	2	1
Supermarket	7	0	5	0
Total Operational Water	**16**	**2**	**12**	**2**

Notes:

[1] Indoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, distribution, and wastewater.

[2] Outdoor water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343. Factor includes supply, treatment, and distribution.

[3] Operational water use values per CalEEMod (7.2 Water by Land Use).

APPENDIX G

GREENHOUSE GAS MODELING DATA

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Maverik Manteca

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market with Gas Pumps	6.10	1000sqft	0.14	6,100.00	0
Fast Food Restaurant with Drive Thru	8.95	1000sqft	0.21	8,950.00	0
Supermarket	55.00	1000sqft	1.26	55,000.00	0
Automobile Care Center	2.00	1000sqft	0.05	2,000.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Regional Shopping Center	32.70	1000sqft	0.75	32,700.00	0
Parking Lot	664.00	Space	5.98	265,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per construction timeline

Off-road Equipment - Anticipated Construction equipment

Grading -

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Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition -

Vehicle Trips - Per Trip Generation table

Construction Off-road Equipment Mitigation - Per SJVAPCD regulations

Water Mitigation -

Waste Mitigation - Per AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	85.00
tblConstructionPhase	NumDays	300.00	280.00
tblConstructionPhase	PhaseEndDate	2/9/2024	12/29/2023
tblConstructionPhase	PhaseEndDate	12/15/2023	11/17/2023
tblConstructionPhase	PhaseEndDate	1/12/2024	12/15/2023
tblConstructionPhase	PhaseStartDate	1/13/2024	9/4/2023
tblConstructionPhase	PhaseStartDate	12/16/2023	11/20/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblVehicleTrips	ST_TR	23.72	62.55
tblVehicleTrips	ST_TR	624.20	288.74
tblVehicleTrips	ST_TR	616.12	213.49
tblVehicleTrips	ST_TR	8.19	7.20
tblVehicleTrips	ST_TR	46.12	49.02
tblVehicleTrips	ST_TR	177.62	84.45
tblVehicleTrips	SU_TR	11.88	62.55
tblVehicleTrips	SU_TR	624.20	588.74
tblVehicleTrips	SU_TR	472.58	213.49
tblVehicleTrips	SU_TR	5.95	7.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	21.10	49.02
tblVehicleTrips	SU_TR	166.47	84.45
tblVehicleTrips	WD_TR	23.72	62.55
tblVehicleTrips	WD_TR	624.20	288.74
tblVehicleTrips	WD_TR	470.95	213.49
tblVehicleTrips	WD_TR	8.36	7.20
tblVehicleTrips	WD_TR	37.75	49.02
tblVehicleTrips	WD_TR	106.78	84.45

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1697	1.6129	1.3621	3.1900e-003	0.3092	0.0694	0.3786	0.1237	0.0644	0.1881	0.0000	284.4451	284.4451	0.0597	8.0700e-003	288.3447
2023	2.3437	2.3224	2.8540	7.4100e-003	0.2878	0.0926	0.3804	0.0781	0.0872	0.1653	0.0000	671.4668	671.4668	0.0768	0.0351	683.8452
Maximum	**2.3437**	**2.3224**	**2.8540**	**7.4100e-003**	**0.3092**	**0.0926**	**0.3804**	**0.1237**	**0.0872**	**0.1881**	**0.0000**	**671.4668**	**671.4668**	**0.0768**	**0.0351**	**683.8452**

Mitigated Construction

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1697	1.6129	1.3621	3.1900e-003	0.1656	0.0694	0.2349	0.0620	0.0644	0.1264	0.0000	284.4448	284.4448	0.0597	8.0700e-003	288.3445
2023	2.3437	2.3224	2.8540	7.4100e-003	0.2736	0.0926	0.3662	0.0746	0.0872	0.1618	0.0000	671.4664	671.4664	0.0768	0.0351	683.8448
Maximum	**2.3437**	**2.3224**	**2.8540**	**7.4100e-003**	**0.2736**	**0.0926**	**0.3662**	**0.0746**	**0.0872**	**0.1618**	**0.0000**	**671.4664**	**671.4664**	**0.0768**	**0.0351**	**683.8448**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**26.45**	**0.00**	**20.81**	**32.29**	**0.00**	**18.44**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	1.2558	1.2558
2	11-1-2022	1-31-2023	0.7551	0.7551
3	2-1-2023	4-30-2023	0.6730	0.6730
4	5-1-2023	7-31-2023	0.6893	0.6893
5	8-1-2023	9-30-2023	0.9377	0.9377
		Highest	1.2558	1.2558

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area	1.3404	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170
Energy	0.0452	0.4112	0.3454	2.4700e-003		0.0313	0.0313		0.0313	0.0313	0.0000	833.4926	833.4926	0.0710	0.0158	839.9681
Mobile	4.1306	4.6806	28.5458	0.0509	4.7720	0.0454	4.8174	1.2761	0.0425	1.3186	0.0000	4,749.9324	4,749.9324	0.4090	0.3146	4,853.8978
Waste						0.0000	0.0000		0.0000	0.0000	110.0292	0.0000	110.0292	6.5025	0.0000	272.5927
Water						0.0000	0.0000		0.0000	0.0000	4.9902	8.7208	13.7110	0.5140	0.0123	30.2173
Total	**5.5163**	**5.0918**	**28.8994**	**0.0534**	**4.7720**	**0.0767**	**4.8487**	**1.2761**	**0.0738**	**1.3499**	**115.0194**	**5,592.1617**	**5,707.1811**	**7.4966**	**0.3426**	**5,996.6930**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3404	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170
Energy	0.0452	0.4112	0.3454	2.4700e-003		0.0313	0.0313		0.0313	0.0313	0.0000	833.4926	833.4926	0.0710	0.0158	839.9681
Mobile	4.1306	4.6806	28.5458	0.0509	4.7720	0.0454	4.8174	1.2761	0.0425	1.3186	0.0000	4,749.9324	4,749.9324	0.4090	0.3146	4,853.8978
Waste						0.0000	0.0000		0.0000	0.0000	55.0146	0.0000	55.0146	3.2513	0.0000	136.2964
Water						0.0000	0.0000		0.0000	0.0000	3.9922	7.0942	11.0864	0.4112	9.8200e-003	24.2926
Total	**5.5163**	**5.0918**	**28.8994**	**0.0534**	**4.7720**	**0.0767**	**4.8487**	**1.2761**	**0.0738**	**1.3499**	**59.0068**	**5,590.5351**	**5,649.5419**	**4.1425**	**0.3402**	**5,854.4719**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.70	0.03	1.01	44.74	0.72	2.37

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/26/2022	5	20	
2	Site Preparation	Site Preparation	8/27/2022	9/9/2022	5	10	
3	Grading	Grading	9/10/2022	10/21/2022	5	30	
4	Building Construction	Building Construction	10/22/2022	11/17/2023	5	280	
5	Paving	Paving	11/20/2023	12/15/2023	5	20	
6	Architectural Coating	Architectural Coating	9/4/2023	12/29/2023	5	85	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 105

Acres of Paving: 5.98

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 429,375; Non-Residential Outdoor: 143,125; Striped Parking Area: 15,936

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	2	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	222.00	90.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1000e-003	0.0000	1.1000e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**1.1000e-003**	**0.0124**	**0.0135**	**1.7000e-004**	**0.0116**	**0.0117**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.7000e-004	1.5000e-004	0.0000	9.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2958	0.2958	0.0000	5.0000e-005	0.3097
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	4.7000e-004	3.3000e-004	3.7400e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9764	0.9764	3.0000e-005	3.0000e-005	0.9860
Total	**4.9000e-004**	**1.1000e-003**	**3.8900e-003**	**1.0000e-005**	**1.2800e-003**	**2.0000e-005**	**1.2900e-003**	**3.4000e-004**	**2.0000e-005**	**3.5000e-004**	**0.0000**	**1.2722**	**1.2722**	**3.0000e-005**	**8.0000e-005**	**1.2957**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7000e-004	0.0000	4.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**4.7000e-004**	**0.0124**	**0.0129**	**7.0000e-005**	**0.0116**	**0.0116**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.7000e-004	1.5000e-004	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2958	0.2958	0.0000	5.0000e-005	0.3097
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	4.7000e-004	3.3000e-004	3.7400e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	0.9764	0.9764	3.0000e-005	3.0000e-005	0.9860
Total	**4.9000e-004**	**1.1000e-003**	**3.8900e-003**	**1.0000e-005**	**1.2100e-003**	**2.0000e-005**	**1.2300e-003**	**3.2000e-004**	**2.0000e-005**	**3.4000e-004**	**0.0000**	**1.2722**	**1.2722**	**3.0000e-005**	**8.0000e-005**	**1.2957**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0983**	**8.0600e-003**	**0.1064**	**0.0505**	**7.4200e-003**	**0.0579**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	2.8000e-004	2.0000e-004	2.2400e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5859	0.5859	2.0000e-005	2.0000e-005	0.5916
Total	**2.8000e-004**	**2.0000e-004**	**2.2400e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5859**	**0.5859**	**2.0000e-005**	**2.0000e-005**	**0.5916**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0420**	**8.0600e-003**	**0.0501**	**0.0216**	**7.4200e-003**	**0.0290**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	2.8000e-004	2.0000e-004	2.2400e-003	1.0000e-005	6.8000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5859	0.5859	2.0000e-005	2.0000e-005	0.5916
Total	**2.8000e-004**	**2.0000e-004**	**2.2400e-003**	**1.0000e-005**	**6.8000e-004**	**0.0000**	**6.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5859**	**0.5859**	**2.0000e-005**	**2.0000e-005**	**0.5916**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1460	0.0000	0.1460	0.0557	0.0000	0.0557	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0606	0.6615	0.4615	1.0300e-003		0.0270	0.0270		0.0249	0.0249	0.0000	90.5283	90.5283	0.0293	0.0000	91.2602
Total	**0.0606**	**0.6615**	**0.4615**	**1.0300e-003**	**0.1460**	**0.0270**	**0.1730**	**0.0557**	**0.0249**	**0.0805**	**0.0000**	**90.5283**	**90.5283**	**0.0293**	**0.0000**	**91.2602**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	1.0900e-003	7.6000e-004	8.5900e-003	2.0000e-005	2.7500e-003	1.0000e-005	2.7600e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.2458	2.2458	7.0000e-005	7.0000e-005	2.2678
Total	**1.0900e-003**	**7.6000e-004**	**8.5900e-003**	**2.0000e-005**	**2.7500e-003**	**1.0000e-005**	**2.7600e-003**	**7.3000e-004**	**1.0000e-005**	**7.4000e-004**	**0.0000**	**2.2458**	**2.2458**	**7.0000e-005**	**7.0000e-005**	**2.2678**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0624	0.0000	0.0624	0.0238	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0606	0.6615	0.4615	1.0300e-003		0.0270	0.0270		0.0249	0.0249	0.0000	90.5282	90.5282	0.0293	0.0000	91.2601
Total	**0.0606**	**0.6615**	**0.4615**	**1.0300e-003**	**0.0624**	**0.0270**	**0.0895**	**0.0238**	**0.0249**	**0.0487**	**0.0000**	**90.5282**	**90.5282**	**0.0293**	**0.0000**	**91.2601**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Worker	1.0900e-003	7.6000e-004	8.5900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	7.0000e-004	1.0000e-005	7.1000e-004	0.0000	2.2458	2.2458	7.0000e-005	7.0000e-005	2.2678
Total	**1.0900e-003**	**7.6000e-004**	**8.5900e-003**	**2.0000e-005**	**2.6100e-003**	**1.0000e-005**	**2.6200e-003**	**7.0000e-004**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**2.2458**	**2.2458**	**7.0000e-005**	**7.0000e-005**	**2.2678**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0427	0.3904	0.4091	6.7000e-004		0.0202	0.0202		0.0190	0.0190	0.0000	57.9313	57.9313	0.0139	0.0000	58.2783
Total	**0.0427**	**0.3904**	**0.4091**	**6.7000e-004**		**0.0202**	**0.0202**		**0.0190**	**0.0190**	**0.0000**	**57.9313**	**57.9313**	**0.0139**	**0.0000**	**58.2783**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7400e-003	0.1241	0.0342	4.7000e-004	0.0149	1.3600e-003	0.0162	4.3000e-003	1.3000e-003	5.6000e-003	0.0000	45.0435	45.0435	3.2000e-004	6.8300e-003	47.0857
Worker	0.0176	0.0122	0.1383	3.9000e-004	0.0442	2.3000e-004	0.0444	0.0118	2.1000e-004	0.0120	0.0000	36.1282	36.1282	1.1800e-003	1.0900e-003	36.4816

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.0223**	**0.1363**	**0.1725**	**8.6000e-004**	**0.0591**	**1.5900e-003**	**0.0607**	**0.0161**	**1.5100e-003**	**0.0176**	**0.0000**	**81.1717**	**81.1717**	**1.5000e-003**	**7.9200e-003**	**83.5674**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0427	0.3904	0.4091	6.7000e-004		0.0202	0.0202		0.0190	0.0190	0.0000	57.9312	57.9312	0.0139	0.0000	58.2782
Total	**0.0427**	**0.3904**	**0.4091**	**6.7000e-004**		**0.0202**	**0.0202**		**0.0190**	**0.0190**	**0.0000**	**57.9312**	**57.9312**	**0.0139**	**0.0000**	**58.2782**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7400e-003	0.1241	0.0342	4.7000e-004	0.0142	1.3600e-003	0.0156	4.1400e-003	1.3000e-003	5.4500e-003	0.0000	45.0435	45.0435	3.2000e-004	6.8300e-003	47.0857
Worker	0.0176	0.0122	0.1383	3.9000e-004	0.0419	2.3000e-004	0.0422	0.0112	2.1000e-004	0.0114	0.0000	36.1282	36.1282	1.1800e-003	1.0900e-003	36.4816

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.0223**	**0.1363**	**0.1725**	**8.6000e-004**	**0.0562**	**1.5900e-003**	**0.0578**	**0.0153**	**1.5100e-003**	**0.0169**	**0.0000**	**81.1717**	**81.1717**	**1.5000e-003**	**7.9200e-003**	**83.5674**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1809	1.6543	1.8681	3.1000e-003		0.0805	0.0805		0.0757	0.0757	0.0000	266.5755	266.5755	0.0634	0.0000	268.1608
Total	**0.1809**	**1.6543**	**1.8681**	**3.1000e-003**		**0.0805**	**0.0805**		**0.0757**	**0.0757**	**0.0000**	**266.5755**	**266.5755**	**0.0634**	**0.0000**	**268.1608**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.4579	0.1348	2.0800e-003	0.0684	2.9300e-003	0.0713	0.0198	2.8000e-003	0.0226	0.0000	199.4130	199.4130	9.8000e-004	0.0302	208.4215
Worker	0.0742	0.0491	0.5823	1.7400e-003	0.2034	1.0100e-003	0.2044	0.0541	9.3000e-004	0.0550	0.0000	161.7982	161.7982	4.8600e-003	4.5900e-003	163.2868

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.0851**	**0.5070**	**0.7171**	**3.8200e-003**	**0.2718**	**3.9400e-003**	**0.2757**	**0.0738**	**3.7300e-003**	**0.0776**	**0.0000**	**361.2112**	**361.2112**	**5.8400e-003**	**0.0347**	**371.7083**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1809	1.6543	1.8681	3.1000e-003		0.0805	0.0805		0.0757	0.0757	0.0000	266.5751	266.5751	0.0634	0.0000	268.1605
Total	**0.1809**	**1.6543**	**1.8681**	**3.1000e-003**		**0.0805**	**0.0805**		**0.0757**	**0.0757**	**0.0000**	**266.5751**	**266.5751**	**0.0634**	**0.0000**	**268.1605**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.4579	0.1348	2.0800e-003	0.0655	2.9300e-003	0.0684	0.0191	2.8000e-003	0.0219	0.0000	199.4130	199.4130	9.8000e-004	0.0302	208.4215
Worker	0.0742	0.0491	0.5823	1.7400e-003	0.1928	1.0100e-003	0.1938	0.0515	9.3000e-004	0.0524	0.0000	161.7982	161.7982	4.8600e-003	4.5900e-003	163.2868

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**0.0851**	**0.5070**	**0.7171**	**3.8200e-003**	**0.2583**	**3.9400e-003**	**0.2622**	**0.0705**	**3.7300e-003**	**0.0743**	**0.0000**	**361.2112**	**361.2112**	**5.8400e-003**	**0.0347**	**371.7083**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	7.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0182**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0269**	**20.0269**	**6.4800e-003**	**0.0000**	**20.1888**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.4200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9506	0.9506	3.0000e-005	3.0000e-005	0.9594

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**4.4000e-004**	**2.9000e-004**	**3.4200e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9506**	**0.9506**	**3.0000e-005**	**3.0000e-005**	**0.9594**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	7.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0182**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0268**	**20.0268**	**6.4800e-003**	**0.0000**	**20.1888**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.4200e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	0.9506	0.9506	3.0000e-005	3.0000e-005	0.9594

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**4.4000e-004**	**2.9000e-004**	**3.4200e-003**	**1.0000e-005**	**1.1300e-003**	**1.0000e-005**	**1.1400e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**0.9506**	**0.9506**	**3.0000e-005**	**3.0000e-005**	**0.9594**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1500e-003	0.0554	0.0770	1.3000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	10.8513	10.8513	6.5000e-004	0.0000	10.8676
Total	**2.0537**	**0.0554**	**0.0770**	**1.3000e-004**		**3.0100e-003**	**3.0100e-003**		**3.0100e-003**	**3.0100e-003**	**0.0000**	**10.8513**	**10.8513**	**6.5000e-004**	**0.0000**	**10.8676**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4300e-003	3.6000e-003	0.0427	1.3000e-004	0.0149	7.0000e-005	0.0150	3.9600e-003	7.0000e-005	4.0300e-003	0.0000	11.8513	11.8513	3.6000e-004	3.4000e-004	11.9603

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**5.4300e-003**	**3.6000e-003**	**0.0427**	**1.3000e-004**	**0.0149**	**7.0000e-005**	**0.0150**	**3.9600e-003**	**7.0000e-005**	**4.0300e-003**	**0.0000**	**11.8513**	**11.8513**	**3.6000e-004**	**3.4000e-004**	**11.9603**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.1500e-003	0.0554	0.0770	1.3000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	10.8513	10.8513	6.5000e-004	0.0000	10.8676
Total	**2.0537**	**0.0554**	**0.0770**	**1.3000e-004**		**3.0100e-003**	**3.0100e-003**		**3.0100e-003**	**3.0100e-003**	**0.0000**	**10.8513**	**10.8513**	**6.5000e-004**	**0.0000**	**10.8676**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4300e-003	3.6000e-003	0.0427	1.3000e-004	0.0141	7.0000e-005	0.0142	3.7700e-003	7.0000e-005	3.8400e-003	0.0000	11.8513	11.8513	3.6000e-004	3.4000e-004	11.9603

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	**5.4300e-003**	**3.6000e-003**	**0.0427**	**1.3000e-004**	**0.0141**	**7.0000e-005**	**0.0142**	**3.7700e-003**	**7.0000e-005**	**3.8400e-003**	**0.0000**	**11.8513**	**11.8513**	**3.6000e-004**	**3.4000e-004**	**11.9603**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1306	4.6806	28.5458	0.0509	4.7720	0.0454	4.8174	1.2761	0.0425	1.3186	0.0000	4,749.9324	4,749.9324	0.4090	0.3146	4,853.8978
Unmitigated	4.1306	4.6806	28.5458	0.0509	4.7720	0.0454	4.8174	1.2761	0.0425	1.3186	0.0000	4,749.9324	4,749.9324	0.4090	0.3146	4,853.8978

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	125.10	125.10	125.10	124,623	124,623
Convenience Market with Gas Pumps	1,761.31	1,761.31	3591.31	1,085,008	1,085,008
Fast Food Restaurant with Drive Thru	1,910.74	1,910.74	1910.74	1,785,248	1,785,248
Hotel	900.00	900.00	900.00	1,709,938	1,709,938
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,602.95	1,602.95	1602.95	2,810,467	2,810,467
Supermarket	4,644.75	4,644.75	4644.75	5,283,141	5,283,141

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Total	10,944.85	10,944.85	12,774.85	12,798,424	12,798,424

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Convenience Market with Gas Pumps	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Convenience Market with Gas Pumps	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Fast Food Restaurant with Drive Thru	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Hotel	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Parking Lot	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Regional Shopping Center	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707
Supermarket	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	385.8538	385.8538	0.0624	7.5700e-003	389.6692
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	385.8538	385.8538	0.0624	7.5700e-003	389.6692
NaturalGas Mitigated	0.0452	0.4112	0.3454	2.4700e-003		0.0313	0.0313		0.0313	0.0313	0.0000	447.6388	447.6388	8.5800e-003	8.2100e-003	450.2989
NaturalGas Unmitigated	0.0452	0.4112	0.3454	2.4700e-003		0.0313	0.0313		0.0313	0.0313	0.0000	447.6388	447.6388	8.5800e-003	8.2100e-003	450.2989

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	36900	2.0000e-004	1.8100e-003	1.5200e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9691	1.9691	4.0000e-005	4.0000e-005	1.9808
Convenience Market with Gas Pumps	70638	3.8000e-004	3.4600e-003	2.9100e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7695	3.7695	7.0000e-005	7.0000e-005	3.7919
Fast Food Restaurant with Drive Thru	975639	5.2600e-003	0.0478	0.0402	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0638	52.0638	1.0000e-003	9.5000e-004	52.3732
Hotel	4.80249e+006	0.0259	0.2354	0.1978	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.2792	256.2792	4.9100e-003	4.7000e-003	257.8021
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	378666	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.2071	20.2071	3.9000e-004	3.7000e-004	20.3271

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Supermarket	2.1241e+006	0.0115	0.1041	0.0875	6.2000e-004		7.9100e-003	7.9100e-003		7.9100e-003	7.9100e-003	0.0000	113.3501	113.3501	2.1700e-003	2.0800e-003	114.0237
Total		**0.0452**	**0.4112**	**0.3454**	**2.4600e-003**		**0.0312**	**0.0312**		**0.0312**	**0.0312**	**0.0000**	**447.6388**	**447.6388**	**8.5800e-003**	**8.2100e-003**	**450.2989**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	36900	2.0000e-004	1.8100e-003	1.5200e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9691	1.9691	4.0000e-005	4.0000e-005	1.9808
Convenience Market with Gas Pumps	70638	3.8000e-004	3.4600e-003	2.9100e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7695	3.7695	7.0000e-005	7.0000e-005	3.7919
Fast Food Restaurant with Drive Thru	975639	5.2600e-003	0.0478	0.0402	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0638	52.0638	1.0000e-003	9.5000e-004	52.3732
Hotel	4.80249e+006	0.0259	0.2354	0.1978	1.4100e-003		0.0179	0.0179		0.0179	0.0179	0.0000	256.2792	256.2792	4.9100e-003	4.7000e-003	257.8021
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	378666	2.0400e-003	0.0186	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.2071	20.2071	3.9000e-004	3.7000e-004	20.3271
Supermarket	2.1241e+006	0.0115	0.1041	0.0875	6.2000e-004		7.9100e-003	7.9100e-003		7.9100e-003	7.9100e-003	0.0000	113.3501	113.3501	2.1700e-003	2.0800e-003	114.0237
Total		**0.0452**	**0.4112**	**0.3454**	**2.4600e-003**		**0.0312**	**0.0312**		**0.0312**	**0.0312**	**0.0000**	**447.6388**	**447.6388**	**8.5800e-003**	**8.2100e-003**	**450.2989**

5.3 Energy by Land Use - Electricity

Unmitigated

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	16560	1.5322	2.5000e-004	3.0000e-005	1.5473
Convenience Market with Gas Pumps	69357	6.4172	1.0400e-003	1.3000e-004	6.4806
Fast Food Restaurant with Drive Thru	274765	25.4223	4.1100e-003	5.0000e-004	25.6737
Hotel	1.16523e+006	107.8115	0.0174	2.1100e-003	108.8775
Parking Lot	92960	8.6010	1.3900e-003	1.7000e-004	8.6861
Regional Shopping Center	371799	34.4003	5.5700e-003	6.7000e-004	34.7404
Supermarket	2.17965e+006	201.6694	0.0326	3.9500e-003	203.6636
Total		**385.8538**	**0.0624**	**7.5600e-003**	**389.6692**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	16560	1.5322	2.5000e-004	3.0000e-005	1.5473
Convenience Market with Gas Pumps	69357	6.4172	1.0400e-003	1.3000e-004	6.4806

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fast Food Restaurant with Drive Thru	274765	25.4223	4.1100e-003	5.0000e-004	25.6737
Hotel	1.16523e+006	107.8115	0.0174	2.1100e-003	108.8775
Parking Lot	92960	8.6010	1.3900e-003	1.7000e-004	8.6861
Regional Shopping Center	371799	34.4003	5.5700e-003	6.7000e-004	34.7404
Supermarket	2.17965e+006	201.6694	0.0326	3.9500e-003	203.6636
Total		**385.8538**	**0.0624**	**7.5600e-003**	**389.6692**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3404	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170
Unmitigated	1.3404	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170

6.2 Area by SubCategory

Unmitigated

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6000e-004	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170
Total	**1.3404**	**7.0000e-005**	**8.2100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0160**	**0.0160**	**4.0000e-005**	**0.0000**	**0.0170**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6000e-004	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0160	0.0160	4.0000e-005	0.0000	0.0170
Total	**1.3404**	**7.0000e-005**	**8.2100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0160**	**0.0160**	**4.0000e-005**	**0.0000**	**0.0170**

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.0864	0.4112	9.8200e-003	24.2926
Unmitigated	13.7110	0.5140	0.0123	30.2173

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Automobile Care Center	0.188162 / 0.115325	0.1912	6.1500e-003	1.5000e-004	0.3890
Convenience Market with Gas Pumps	0.451842 / 0.276936	0.4592	0.0148	3.5000e-004	0.9341
Fast Food Restaurant with Drive Thru	2.71663 / 0.173402	2.2781	0.0888	2.1200e-003	5.1280
Hotel	3.17085 / 0.352316	2.7075	0.1036	2.4700e-003	6.0344
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.42217 / 1.48456	2.4618	0.0792	1.9000e-003	5.0071
Supermarket	6.77975 / 0.209683	5.6131	0.2215	5.2800e-003	12.7247
Total		**13.7110**	**0.5140**	**0.0123**	**30.2173**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.15053 / 0.10829	0.1582	4.9200e-003	1.2000e-004	0.3164
Convenience Market with Gas Pumps	0.361474 / 0.260043	0.3799	0.0118	2.8000e-004	0.7598
Fast Food Restaurant with Drive Thru	2.1733 / 0.162824	1.8303	0.0710	1.6900e-003	4.1103
Hotel	2.53668 / 0.330825	2.1819	0.0829	1.9800e-003	4.8436
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.93774 / 1.394	2.0363	0.0634	1.5200e-003	4.0732

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Supermarket	5.4238 / 0.196892	4.4999	0.1772	4.2300e-003	10.1893
Total		**11.0864**	**0.4112**	**9.8200e-003**	**24.2926**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	55.0146	3.2513	0.0000	136.2964
Unmitigated	110.0292	6.5025	0.0000	272.5927

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	tons	MT/yr			
Automobile Care Center	7.64	1.5509	0.0917	0.0000	3.8422
Convenience Market with Gas Pumps	18.33	3.7208	0.2199	0.0000	9.2182
Fast Food Restaurant with Drive Thru	103.09	20.9263	1.2367	0.0000	51.8441
Hotel	68.44	13.8927	0.8210	0.0000	34.4186
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	34.34	6.9707	0.4120	0.0000	17.2696
Supermarket	310.2	62.9678	3.7213	0.0000	156.0001
Total		**110.0292**	**6.5025**	**0.0000**	**272.5927**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	3.82	0.7754	0.0458	0.0000	1.9211
Convenience Market with Gas Pumps	9.165	1.8604	0.1100	0.0000	4.6091
Fast Food Restaurant with Drive Thru	51.545	10.4632	0.6184	0.0000	25.9221
Hotel	34.22	6.9464	0.4105	0.0000	17.2093

Maverik Manteca - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	17.17	3.4854	0.2060	0.0000	8.6348
Supermarket	155.1	31.4839	1.8607	0.0000	78.0000
Total		**55.0146**	**3.2513**	**0.0000**	**136.2964**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX H

NOISE MEASUREMNT FIELD DATA

Noise Measurement Field Data

Project:	Maverik Manteca	**Job Number:**	197344008
Site No.:	1	**Date:**	1/26/2022
Analyst:	Sophie La Herran	**Time:**	11:49 AM
Location:	S. Airport Way		
Noise Sources:	Traffic on Airport Way, Trucks idling		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	67.9	52.7	83.1	94.6

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	61°
Wind (mph):	< 6
Sky:	Clear
Bar. Pressure:	30.15"
Humidity:	27%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LxT_Data.105.s	Computer's File Name	LxTse_0006073-20220126 114920-LxT_Data.105.ldbin
Meter	LxT SE 0006073		
Firmware	2.404		
User		Location	
Job Description			
Note			
Start Time	2022-01-26 11:49:20	Duration	0:10:03.4
End Time	2022-01-26 11:59:23	Run Time	0:10:03.4
		Pause Time	0:00:00.0

Results

Overall Metrics

LA_{eq}	67.9 dB		
LAE	95.7 dB	SEA	--- dB
EA	412.7 µPa²h		
LA_{peak}	94.6 dB	2022-01-26 11:55:02	
LAS_{max}	83.1 dB	2022-01-26 11:54:07	
LAS_{min}	52.7 dB	2022-01-26 11:51:17	
LA_{eq}	67.9 dB		
LC_{eq}	76.5 dB	LC_{eq} - LA_{eq}	8.6 dB
LAI_{eq}	69.7 dB	LAI_{eq} - LA_{eq}	1.8 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
67.9 dB	67.9 dB	0.0 dB

LDEN	LDay	LEve	LNight
67.9 dB	67.9 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	67.9 dB		76.5 dB		--- dB	
$Ls_{(max)}$	83.1 dB	2022-01-26 11:54:07	--- dB		--- dB	
$LS_{(min)}$	52.7 dB	2022-01-26 11:51:17	--- dB		--- dB	
$L_{Peak(max)}$	94.6 dB	2022-01-26 11:55:02	--- dB		--- dB	

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	72.3 dB
LAS 10.0	70.4 dB
LAS 33.3	67.1 dB
LAS 50.0	65.4 dB
LAS 66.6	63.3 dB
LAS 90.0	57.3 dB

Noise Measurement Field Data

Project:	Maverik Manteca	**Job Number:**	197344008
Site No.:	2	**Date:**	1/26/2022
Analyst:	Sophie La Herran	**Time:**	12:04 PM
Location:	Sage Sparrow Ave		
Noise Sources:	Traffic on W. Atherton		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	63.8	51.8	76.0	99.3

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	61°
Wind (mph):	< 6
Sky:	Clear
Bar. Pressure:	30.15"
Humidity:	27%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LxT_Data.106.s	Computer's File Name	LxTse_0006073-20220126 120412-LxT_Data.106.ldbin
Meter	LxT SE 0006073		
Firmware	2.404		
User		Location	
Job Description			
Note			
Start Time	2022-01-26 12:04:12	Duration	0:10:11.6
End Time	2022-01-26 12:14:24	Run Time	0:10:11.6
Pause Time	0:00:00.0		

Results

Overall Metrics

LA_{eq}	63.8 dB		
LAE	91.6 dB	SEA	--- dB
EA	162.4 µPa²h		
LA_{peak}	99.3 dB	2022-01-26 12:07:01	
LAS_{max}	76.0 dB	2022-01-26 12:08:11	
LAS_{min}	51.8 dB	2022-01-26 12:09:14	
LA_{eq}	63.8 dB		
LC_{eq}	72.4 dB	LC_{eq} - LA_{eq}	8.6 dB
LAI_{eq}	66.6 dB	LAI_{eq} - LA_{eq}	2.8 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
63.8 dB	63.8 dB	0.0 dB

LDEN	LDay	LEve	LNight
63.8 dB	63.8 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	63.8 dB		72.4 dB		--- dB	
$Ls_{(max)}$	76.0 dB	2022-01-26 12:08:11	--- dB		--- dB	
$LS_{(min)}$	51.8 dB	2022-01-26 12:09:14	--- dB		--- dB	
$L_{Peak(max)}$	99.3 dB	2022-01-26 12:07:01	--- dB		--- dB	

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	69.7 dB
LAS 10.0	68.0 dB
LAS 33.3	62.4 dB
LAS 50.0	59.3 dB
LAS 66.6	57.0 dB
LAS 90.0	54.7 dB

Noise Measurement Field Data

Project:	Maverik Manteca	**Job Number:**	197344008
Site No.:	3	**Date:**	1/26/2022
Analyst:	Sophie La Herran	**Time:**	12:21 PM
Location:	Langum Way		
Noise Sources:	Cars passing by		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	48.8	43.4	64.5	83.3

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	61°
Wind (mph):	< 6
Sky:	Clear
Bar. Pressure:	30.15"
Humidity:	27%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LxT_Data.107.s	Computer's File Name	LxTse_0006073-20220126 122055-LxT_Data.107.ldbin
Meter	LxT SE 0006073		
Firmware	2.404		
User		Location	
Job Description			
Note			
Start Time	2022-01-26 12:20:55	Duration	0:10:00.8
End Time	2022-01-26 12:30:56	Run Time	0:10:00.8
		Pause Time	0:00:00.0

Results

Overall Metrics

LA_{eq}	48.8 dB		
LAE	76.5 dB	SEA	--- dB
EA	5.0 µPa²h		
LA_{peak}	83.3 dB	2022-01-26 12:21:04	
LAS_{max}	64.5 dB	2022-01-26 12:27:35	
LAS_{min}	43.4 dB	2022-01-26 12:26:45	
LA_{eq}	48.8 dB		
LC_{eq}	63.3 dB	LC_{eq} - LA_{eq}	14.6 dB
LAI_{eq}	51.4 dB	LAI_{eq} - LA_{eq}	2.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
48.8 dB	48.8 dB	0.0 dB

LDEN	LDay	LEve	LNight
48.8 dB	48.8 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	48.8 dB		63.3 dB		--- dB	
$Ls_{(max)}$	64.5 dB	2022-01-26 12:27:35	--- dB		--- dB	
$LS_{(min)}$	43.4 dB	2022-01-26 12:26:45	--- dB		--- dB	
$L_{Peak(max)}$	83.3 dB	2022-01-26 12:21:04	--- dB		--- dB	

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	52.7 dB
LAS 10.0	50.2 dB
LAS 33.3	47.2 dB
LAS 50.0	46.5 dB
LAS 66.6	46.0 dB
LAS 90.0	44.7 dB

Noise Measurement Field Data

Project:	Maverik Manteca	**Job Number:**	197344008
Site No.:	4	**Date:**	1/26/2022
Analyst:	Sophie La Herran	**Time:**	12:36 PM
Location:	W Atherton Drive		
Noise Sources:	Traffic on I-120		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	69.9	41.9	87.0	111.3

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	61°
Wind (mph):	< 6
Sky:	Clear
Bar. Pressure:	30.15"
Humidity:	27%

Photo:

Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LxT_Data.108.s	Computer's File Name	LxTse_0006073-20220126 123629-LxT_Data.108.ldbin
Meter	LxT SE 0006073		
Firmware	2.404		
User		Location	
Job Description			
Note			
Start Time	2022-01-26 12:36:29	Duration	0:10:03.7
End Time	2022-01-26 12:46:33	Run Time	0:10:03.7
		Pause Time	0:00:00.0

Results

Overall Metrics

LA_{eq}	69.6 dB		
LAE	97.4 dB	SEA	--- dB
EA	607.9 µPa²h		
LA_{peak}	111.3 dB	2022-01-26 12:44:18	
LAS_{max}	87.0 dB	2022-01-26 12:38:56	
LAS_{min}	41.9 dB	2022-01-26 12:46:17	
LA_{eq}	69.6 dB		
LC_{eq}	83.1 dB	LC_{eq} - LA_{eq}	13.5 dB
LAI_{eq}	74.1 dB	LAI_{eq} - LA_{eq}	4.5 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	1	0:00:03.8
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
69.6 dB	69.6 dB	0.0 dB

LDEN	LDay	LEve	LNight
69.6 dB	69.6 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	69.6 dB		83.1 dB		--- dB	
$Ls_{(max)}$	87.0 dB	2022-01-26 12:38:56	--- dB		--- dB	
$LS_{(min)}$	41.9 dB	2022-01-26 12:46:17	--- dB		--- dB	
$L_{Peak(max)}$	111.3 dB	2022-01-26 12:44:18	--- dB		--- dB	

Overloads

Count	Duration	OBA Count	OBA Duration
1	0:00:02.2	1	0:00:02.2

Statistics

LAS 5.0	72.4 dB
LAS 10.0	70.0 dB
LAS 33.3	67.6 dB
LAS 50.0	66.4 dB
LAS 66.6	64.9 dB
LAS 90.0	58.1 dB

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Demo

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

			Equipment			
	Impact		Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Saw	No	20		89.6	275	5
Excavator	No	40		80.7	275	5
Dozer	No	40		81.7	275	5

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	69.8	62.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	60.9	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	61.9	57.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	69.8	64.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

			Equipment			
	Impact		Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Saw	No	20		89.6	300	5
Excavator	No	40		80.7	300	5
Dozer	No	40		81.7	300	5

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	69	62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	60.1	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	61.1	57.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	69	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Site Prep

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Tractor	No	40	84		275	5
Dozer	No	40		81.7	275	5

				Results											
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor		64.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		61.9	57.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	64.2	62.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Tractor	No	40	84		300	5
Dozer	No	40		81.7	300	5

				Results											
		Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
				Day		Evening		Night		Day		Evening		Night	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor		63.4	59.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer		61.1	57.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total	63.4	61.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Flat Bed Truck	No	40		74.3	275	5
Grader	No	40	85		275	5
Scraper	No	40		83.6	275	5
Tractor	No	40	84		275	5

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Flat Bed Truck	54.4	50.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	65.2	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	63.8	59.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	64.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	65.2	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Flat Bed Truck	No	40		74.3	300	5
Grader	No	40	85		300	5
Scraper	No	40		83.6	300	5
Tractor	No	40	84		300	5

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Flat Bed Truck	53.7	49.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	64.4	60.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	63	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	63.4	59.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	64.4	64.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Builidng Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	275	5
Crane	No	16		80.6	275	5
Generator	No	50		80.6	275	5
Tractor	No	40	84		275	5
Welder / Torch	No	40		74	275	5

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Man Lift	54.9	47.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane	60.7	52.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	60.8	57.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	64.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	54.2	50.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	64.2	63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	300	5
Crane	No	16		80.6	300	5
Generator	No	50		80.6	300	5
Tractor	No	40	84		300	5
Welder / Torch	No	40		74	300	5

Results

	Calculated (dBA)		Noise Limits (dBA) Day		Evening		Night		Noise Limit Exceedance (dBA) Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Man Lift	54.1	47.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane	60	52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	60.1	57.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	63.4	59.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	53.4	49.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	63.4	62.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Paving

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Paver	No	50		77.2	275	5
Roller	No	20		80	275	5

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	57.4	54.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	60.2	53.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	60.2	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Paver	No	50		77.2	300	5
Roller	No	20		80	300	5

Results

	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
			Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	56.7	53.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	59.4	52.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	59.4	56.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/3/2022
Case Description: Arch Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence West	Residential	69.9	69.9	69.9

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	275	5

Results

	Calculated (dBA)		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	57.9	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.9	53.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Residence South	Residential	48.8	48.8	48.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	300	5

Results

	Calculated (dBA)		Day		Evening		Night		Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	57.1	53.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	57.1	53.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.