DRAFT

ENVIRONMENTAL IMPACT REPORT

FOR THE

SINGH PETROLEUM INVESTMENTS

(SCH: 2022120596)

FEBRUARY 2024

Prepared for:

City of Lathrop, Community Development Department
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Prepared by:

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De Novo Planning Group

A Land Use Planning, Design, and Environmental Firm

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INTRODUCTION

The City of Lathrop has determined that the Singh Petroleum Investments Project is a "Project" within the definition of CEQA. CEQA requires the preparation of an environmental impact report (EIR) prior to approving any project that may have a significant impact on the environment. For the purposes of CEQA, the term "Project" refers to the whole of an action, which has the potential for resulting in a direct physical change or a reasonably foreseeable indirect physical change in the environment (CEQA Guidelines Section 15378[a]).

The EIR contains a description of the Project, description of the environmental setting, identification of Project impacts, and mitigation measures for impacts found to be significant, as well as an analysis of Project alternatives, identification of significant irreversible environmental changes, growth-inducing impacts, and cumulative impacts. This EIR identifies issues determined to have no impact or a less than significant impact, and provides detailed analysis of potentially significant and significant impacts. Comments received in response to the Notice of Preparation (NOP) were considered in preparing the analysis in this EIR.

PROJECT DESCRIPTION

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

The Project site is comprised of flat land with ruderal grasses, fallow ground, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf. The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north.

Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The Phase I

site plan for the proposed Project is shown in Figure 2.0-7 and the Phase II site plan for the proposed Project is shown in Figure 2.0-8.

The proposed Project includes the following amenities:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands;
    - Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.
- 246 truck/trailer spaces, 351 passenger vehicle spaces, 4 fueling and gas/diesel spaces, 18 electric vehicle spaces; and 16 ADA spaces;
- A 13,875-sf full service 4 bay truck repair shop;
- A 16,499-sf building that will include the following:
    - Office space;
    - Restroom facilities, 8 showers;
    - Laundry facility with 12 sets of washer/dryer;
    - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
    - Dog run area enclosed with a metal fence
    - Two (2) quick service restaurants, one with a drive-thru option.
    - Seating area for patrons to dine.

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed as an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-of-way (ROW) dedication for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I Project site and is identified as future ROW for future interchange improvements.

Phase II of the Project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road.

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses.

See Chapter 2.0 for a complete Project Description.

AREAS OF CONTROVERSY AND ISSUES TO BE RESOLVED

This Draft EIR addresses environmental impacts associated with the proposed Project that are known to the City of Lathrop, were raised during the NOP process, or raised during preparation of

the Draft EIR. This Draft EIR discusses potentially significant impacts associated with aesthetics, agricultural resources, air quality, biological resources, cultural and tribal resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use, noise, public services and recreation, transportation and circulation, and utilities.

Areas of controversy include the following:

- Loss of habitat for species;
- Pre- and post-project stormwater runoff and the potential drainage impacts to Interstate 5;
- Interstate 5 traffic queuing at the Roth Road interchange during the existing plus project and cumulative plus project conditions;
- Project related construction and operation emissions; and
- Potential impacts related to tribal resources.

The City of Lathrop received five written comment letters on the NOP for the proposed Project. A copy of the letters is provided in Appendix A of this Draft EIR. The commenting agency/citizen is provided below. The City also held a public scoping meeting on January 11, 2023.

- California Department of Transportation (January 19, 2023);
- Central Valley Regional Water Quality Control Board (January 20, 2023);
- San Joaquin Council of Governments (December 27, 2022);
- San Joaquin Valley Air Pollution Control District (January 19, 2023);
- State of California Native American Heritage Commission (December 29, 2022).

ALTERNATIVES TO THE PROPOSED PROJECT

The CEQA Guidelines require an EIR to describe a reasonable range of alternatives to the Project or to the location of the Project which would reduce or avoid any of the significant impacts of the Project, and which could feasibly accomplish most of the basic objectives of the proposed Project. Four alternatives to the proposed Project were developed based on input from City staff, and the technical analysis performed to identify the environmental effects of the proposed Project. The alternatives analyzed in this EIR include the following four alternatives in addition to the proposed Project.

1. **No Project (No Build) Alternative**: Under this alternative, development of the Project site would not occur, and the Project site would remain in its current existing condition.
2. **Reduced Project Size and Intensity Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would reduce the project size and overall intensity of commercial activity and circulation patterns. Changes include: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I.

3. **Revised Circulation Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road.
4. **Phase II Only Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the Phase I circulation, access and parking portions of the plan would not be approved. Changes include: 1) eliminating Phase I circulation, access and parking from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II.

Alternatives are described in detail in Chapter 5.0. See Figures 5.0-1 through 5.0-4 in Chapter 5.0.

Table ES-1 presents a comparison of the impacts from the proposed Project relative to the Alternatives.

TABLE ES-1: COMPARISON OF ALTERNATIVE PROJECT IMPACTS TO THE PROPOSED PROJECT

ENVIRONMENTAL ISSUE	*NO PROJECT (NO BUILD) ALTERNATIVE*	*REDUCED PROJECT SIZE AND INTENSITY ALTERNATIVE*	*REVISED CIRCULATION ALTERNATIVE*	*PHASE II ONLY ALTERNATIVE*
Aesthetics and Visual Resources	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Agricultural Resources	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Air Quality	Less (Best)	Less (2nd Best)	Less (3rd Best)	Slightly Less (4th Best)
Biological Resources	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Cultural and Tribal Resources	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Geology and Soils	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Greenhouse Gases, Climate Change and Energy	Less (Best)	Less (2nd Best)	Slightly Less (3rd Best)	Equal (4th Best)
Hazards and Hazardous Materials	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Hydrology and Water Quality	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Land Use and Population	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Noise	Less (Best)	Less (2nd Best)	Less (3rd Best)	Equal (4th Best)
Public Services and Recreation	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Transportation and Circulation	Less (Best)	Less (2nd Best)	Less (3rd Best)	Slightly Less (4th Best)
Utilities	Less (Best)	Less (2nd Best)	Slightly Less (3rd Best)	Equal (4th Best)

GREATER = GREATER IMPACT THAN THAT OF THE PROPOSED PROJECT
LESS = LESS IMPACT THAN THAT OF THE PROPOSED PROJECT
EQUAL = NO SUBSTANTIAL CHANGE IN IMPACT FROM THAT OF THE PROPOSED PROJECT

As shown in the table, the No Project (No Build) Alternative is the environmentally superior alternative. However, as required by CEQA, when the No Project (No Build) Alternative is the

environmentally superior alternative, the environmentally superior alternative among the others must be identified. The Reduced Project Size and Intensity Alternative would reduce or slightly reduce impacts related to 11 environmental issues and would have equal impacts related to three environmental issues. The Revised Circulation Alternative would reduce or slightly reduce impacts related to five environmental issues and would have equal impacts related to nine environmental issues. The Phase II Only Alternative would result slightly reduced impacts to two environmental issues and would have equal impacts related to 12 environmental issues. Therefore, the Reduced Project Size and Intensity Alternative would be the next environmentally superior alternative.

SUMMARY OF IMPACTS AND MITIGATION MEASURES

In accordance with the CEQA Guidelines, this EIR focuses on the significant effects on the environment. The CEQA Guidelines defines a significant effect as a substantial adverse change in the physical conditions which exist in the area affected by the proposed Project. A less than significant effect is one in which there is no long or short-term significant adverse change in environmental conditions. Some impacts are reduced to a less than significant level with the implementation of mitigation measures and/or compliance with regulations.

The environmental impacts of the proposed Project, the impact level of significance prior to mitigation, the proposed mitigation measures and/or adopted policies and standard measures that are already in place to mitigate an impact, and the impact level of significance after mitigation are summarized in Table ES-2.

TABLE ES-2: PROJECT IMPACTS AND PROPOSED MITIGATION MEASURES

ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
AESTHETICS			
Impact 3.1-1: Project implementation would result in substantial adverse effects on scenic vistas	LS		--
Impact 3.1-2: Project implementation would not substantially damage scenic resources within a State Scenic Highway	LS		--
Impact 3.1-3 Project implementation would not conflict with the applicable zoning and other regulations governing scenic quality	LS		--
AGRICULTURAL RESOURCES			
Impact 3.2-1: The proposed Project would not 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 uses	LS		--
Impact 3.2-2: The proposed Project has the potential to involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural	LS		--

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PS – potentially significant *B – beneficial impact* *SU – significant and unavoidable*

ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
AIR QUALITY			
Impact 3.3-1: Project operation could conflict with or obstruct implementation of the District's air quality plan	PS	*None feasible*	SU
Impact 3.3-2: The proposed Project would not result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard	LS		--
Impact 3.3-3: The proposed Project could expose sensitive receptors to substantial pollutant concentrations	PS	*None feasible*	SU
Impact 3.3-4: The proposed Project would not cause exposure to other emissions (such as those leading to odors) adversely affecting a substantial number of people	LS		--
BIOLOGICAL RESOURCES			
Impact 3.4-1: The proposed Project would not have a substantial direct or indirect effect on special-status invertebrate species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of an	PS	***Mitigation Measure 3.4-1:*** *The Project applicant shall implement the following measure to avoid or minimize impacts on special-status bumble bees:* • *A qualified biologist(s) shall conduct a preconstruction survey with 7 days of the commencement of work. If special-status bees of any species are observed, they shall be photographed for identification. If construction begins between March 1 and November 1, the ground shall also be searched during the survey for active bumble bee colonies. If bee colonies are identified, these colonies shall be*	LS

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
animal community, or a drop in population levels below self-sustaining levels		*demarcated with a flagged avoidance buffer, as determined by a qualified biologist and shall be avoided during the active season from March 1 through November 1, or until the qualified biologist has determined that the colony is no longer active or until the colony is relocated.*	
Impact 3.4-2: The proposed Project has the potential to have substantial direct or indirect effects on special-status reptile and amphibian species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a reptile or amphibian community, or a drop in population levels below self-sustaining levels	PS	***Mitigation Measure 3.4-2:*** *Prior to commencement of any grading activities, the Project proponent shall obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species. Coverage involves compensation for habitat impacts on covered species through implementation of incidental take and minimization Measures (ITMMs) and payment of fees for conversion of lands that may provide habitat for covered special status species. These fees are used to preserve and/or create habitat in preserves to be managed in perpetuity. Obtaining coverage for a Project includes incidental take authorization (permits) under the Endangered Species Act Section 10(a), California Fish and Game Code Section 2081, and the MBTA. Coverage under the SJMSCP would fully mitigate all habitat impacts on covered special-status species.*	LS
Impact 3.4-3: The proposed Project has the potential to have substantial direct or indirect effects on special-status bird species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a bird community, or a drop in population levels below self-sustaining levels	PS	*Implement* ***Mitigation Measure 3.4-2.***	LS
Impact 3.4-4: The proposed Project has the potential for substantial direct or indirect effects on special-status mammal species, including through substantial reduction of habitat, substantial reduction of the number or restriction of the range of a listed species, elimination of a	PS	*Implement* ***Mitigation Measure 3.4-2.***	LS

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mammal community, or a drop in population levels below self-sustaining levels			
Impact 3.4-5: The potential for substantial direct or indirect effects on candidate, sensitive, or special-status plant species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a plant community, or a drop in population levels below self-sustaining levels	LS		--
Impact 3.4-6: The potential for substantial direct or indirect effects on candidate, sensitive, or special-status fish species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a fish community, or a drop in population levels below self-sustaining levels	LS		--
Impact 3.4-7: The potential to cause a substantial adverse effect on protected wetlands and jurisdictional waters	LS		--
Impact 3.4-8: The potential to result in adverse effects on riparian habitat or other sensitive natural community	NI		--
Impact 3.4-9: The potential to result in interference with the movement of any native	LS		--

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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			
Impact 3.4-10: The proposed Project has the potential to conflict with an adopted Habitat Conservation Plan	PS	*Implement* ***Mitigation Measure 3.4-2.***	LS
Impact 3.4-11: The potential to conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance	LS		--
CULTURAL AND TRIBAL RESOURCES			
Impact 3.5-1: Project implementation has the potential to cause a substantial adverse change to a significant historical or archaeological resource, as defined in CEQA Guidelines §15064.5	PS	***Mitigation Measure 3.5-1:*** *If subsurface deposits believed to be cultural, historical, archaeological, tribal, and/or human in origin are discovered during construction and/or ground disturbance, all work must halt within a 100-foot radius of the discovery. A Native American Representative from traditionally and culturally affiliated Native American Tribes that requested consultation shall be immediately contacted and invited to assess the significance of the find and make recommendations for further evaluation and treatment, as necessary. If deemed necessary by the City, a qualified cultural resources specialist meeting the Secretary of Interior's Professional Qualifications Standards for Archaeology, may also assess the significance of the find in joint consultation with Native American Representatives to ensure that Tribal values are considered. Work at the discovery location cannot resume until it is determined by the City, in consultation with culturally affiliated tribes, that the find is not a tribal cultural resource, or that the find is a tribal cultural resource and all necessary investigation and evaluation of the discovery under the requirements of the CEQA, including AB 52, has been satisfied. The qualified cultural*	LS

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		resources specialist shall have the authority to modify the no-work radius as appropriate, using professional judgement. *The following notifications and measures shall apply to potential unique archaeological resources and potential historical resources of an archaeological nature (as opposed to tribal cultural resources), depending on the nature of the find:* • *If the professional archaeologist determines that the find does not represent a cultural resource that might qualify as a unique archaeological resource or historical resource of an archaeological nature, work may resume immediately and no agency notifications are required.* • *If the professional archaeologist determines that the find does represent a cultural resource that might qualify as a unique archaeological resource or historical resource of an archaeological nature from any time period or cultural affiliation, he or she shall immediately notify the City and applicable landowner. The professional archaeologist and a representative from the City shall consult to determine whether any unique archaeological resources or historical resources of an archaeological nature are present, in part based on a finding of eligibility for inclusion in the NRHP or CRHR. If it is determined that unique archaeological resources or historical resources of an archaeological nature are present, the qualified archaeologist shall develop mitigation or treatment measures for consideration and approval by the City. Mitigation shall be developed and implemented in accordance with Public Resources Code Section 21083.2 and Section 15126.4 of the CEQA Guidelines, with a preference for preservation in place. Consistent with Section 15126.4(b)(3), preservation in place may be accomplished through planning construction to avoid the resource; incorporating the resource within open space; capping and covering the resource; or deeding the site into a permanent conservation easement. If approved by the City, such measures shall be implemented and completed prior to commencing further work for which grading or building permits were issued, unless otherwise directed by*	

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
		the City. Avoidance or preservation of unique archaeological resources or historical resources of an archaeological nature shall not be required where such avoidance or preservation in place would preclude the construction of important structures or infrastructure or require exorbitant expenditures, as determined by the City. Where avoidance or preservation are not appropriate for these reasons, the professional archaeologist, in consultation with the City, shall prepare a detailed recommended a treatment plan for consideration and approval by the City, which may include data recovery. If employed, data recovery strategies for unique archaeological resources that do not also qualify as historical resources of an archaeological nature shall follow the applicable requirements and limitations set forth in Public Resources Code Section 21083.2. Data recovery will normally consist of (but would not be limited to) sample excavation, artifact collection, site documentation, and historical research, with the aim of recovering important scientific data contained within the unique archaeological resource or historical resource of an archaeological nature. The data recovery plan shall include provisions for analysis of data in a regional context, reporting of results within a timely manner, curation of artifacts and data at an approved facility, and dissemination of reports to local and State repositories, libraries, and interested professionals. If data recovery is determined by the City to not be appropriate, then an equally effective treatment shall be proposed and implemented. Work may not resume within the no-work radius until the City, in consultation with the professional archaeologist, determines that the site either: 1) does not contain unique archaeological resources or historical resources of an archaeological nature; or 2) that the preservation and/or treatment measures have been completed to the satisfaction of the City. • *If the find includes human remains, or remains that are potentially human, the contractor shall ensure reasonable protection measures are taken to protect the discovery from disturbance (AB 2641). The archaeologist shall notify the County Coroner (per Section 7050.5 of the Health and Safety Code). The provisions of Section 7050.5 of the California Health and Safety Code, Section 5097.98 of the*	

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		California Public Resources Code, and Assembly Bill 2641 will be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, then the Coroner will notify the Native American Heritage Commission, which then will designate a Native American Most Likely Descendant (MLD) for the project (§5097.98 of the Public Resources Code). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. If the landowner does not agree with the recommendations of the MLD, then the NAHC can mediate (Section 5097.94 of the Public Resources Code). If no agreement is reached, the landowner must rebury the remains where they will not be further disturbed (Section 5097.98 of the Public Resources Code). This will also include either recording the site with the NAHC or the appropriate Information Center; using an open space or conservation zoning designation or easement; or recording a reinternment document with the county in which the property is located (AB 2641). Work may not resume within the no-work radius until the lead agency, through consultation as appropriate, determines that the treatment measures have been completed to their satisfaction.	
Impact 3.5-2: Project implementation has the potential to disturb human remains, including those interred outside of formal cemeteries	PS	*Implement* ***Mitigation Measure 3.5-1.***	LS
Impact 3.5-3: Project implementation has the potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074	PS	*Implement* ***Mitigation Measure 3.5-1.***	LS
GEOLOGY AND SOILS			
Impact 3.6-1: The proposed Project may expose people or structures to potential substantial	LS		--

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adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, including liquefaction, or landslides			
Impact 3.6-2: Implementation and construction of the proposed Project may result in substantial soil erosion or the loss of topsoil	LS		--
Impact 3.6-3: The proposed Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable as a result of Project implementation, and potentially result in landslide, lateral spreading, subsidence, liquefaction or collapse	PS	***Mitigation Measure 3.6-1:*** *Prior to the start of ground disturbing activities, a geotechnical engineer shall review project improvement plans (including but not limited to grading plans and site plans) to identify potential conflicts and to verify that the recommendations contained in the Geotechnical Engineering Investigation completed for the project (CTE CAL, Inc., 2022) (Appendix D of the Draft EIR) are noted on project improvement plans. The recommendations are generally outlined in Mitigation Measure 3.6-2 while the complete recommendations are included in Chapter 5 of the Geotechnical Engineering Investigation.* ***Mitigation Measure 3.6-1:*** *All grading operations and construction shall be conducted in conformance with the recommendations included in the Geotechnical Engineering Investigation for Singh Petroleum Investments Percolation (CTE CAL, Inc., 2022) (Appendix D of the Draft EIR). Specific recommendations in the Geotechnical Engineering Investigation address the following and shall be incorporated into the final Project plans and construction-level geotechnical report:* 1. *The Project proponent shall ensure that any loose, wet or otherwise unstable soil in the Project site shall be excavated and evaluated by Construction Testing & Engineering, Inc. (CTE) for possible re-use as engineered fill or disposed of offsite. Utilities that extend into the construction area and are scheduled to be abandoned shall be properly capped at the perimeter of the construction zone or moved as directed in the plans. A licensed Geotechnical Engineer shall observe and confirm*	LS

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		that all asphalt and concrete debris, vegetation, and other organic material has been adequately removed in all proposed improvement areas. 2. *Reinforced continuous and isolated spread footing foundations shall be used to support the proposed structures as the subject site consistent with the recommendations provided in Section 5.4, Lateral Load Resistance, provided in the Geotechnical Engineering Investigation.* 3. *Shallow footings shall be designed to resist lateral loads using the coefficient of friction.* 4. *Free draining retaining walls backfilled using permeable onsite soils or import fill, shall be designed using the equivalent fluid weights consistent with the recommendations provided in Section 5.5, Retaining Walls, provided in the Geotechnical Engineering Investigation.* 5. *Utility trenches placed along the perimeter of proposed foundations shall be constructed consistent with Section 5.6, Foundation Setback, provided in the Geotechnical Engineering Investigation.* 6. *All concrete slabs-on-ground placed beneath the structures hall be constructed consistent with Section 5.7, Concrete Slabs-On-Grade, provided in the Geotechnical Engineering Investigation.* 7. *All pavements shall be designed and constructed according to California Department of Transportation (Caltrans) standards consistent with Section 5.9, Pavement Section Alternatives, recommendations provided in the Geotechnical Engineering Investigation. The subgrade beneath all pavements shall be moisture conditioned and compacted in accordance with Table 5.2 of the Geotechnical Engineering Investigation as per ASTM D1557.*	

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
		8. Ground conditions shall be consistent with Section 5.10, Drainage, provided in the Geotechnical Engineering Investigation. *9. The project shall be consistent with Section 5.8, Seismic Design Criteria, provided in the Geotechnical Engineering Investigation.* *10. The exposed over excavated surface shall then be scarified to a depth of approximately 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2 of the Geotechnical Engineering Investigation. Moisture density relationship shall be established in accordance with ASTM D1557. The compaction percent listed in Table 5.2 shall be based on percent relative compaction when compared to the maximum dry density determined in accordance with ASTM D1557. Additional engineered fill, if required, shall then be placed in 8 inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.* *After stripping in pavement improvement areas is conducted, the stripped areas shall be over excavated to 12 inches below the proposed pavement subgrade. The excavated surface shall then be scarified to a minimum depth of 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2. Moisture-density relationship shall be established in accordance with ASTM D1557. Proof rolling with heavy equipment shall be performed with CTE Cal present to confirm that subgrade is compacted, stable and does not deflect under heavy equipment loads. Additional engineered fill, if required, shall then be placed in 8-inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.* *Import soils proposed for engineered fill shall consist of soil deposits having an Expansion Index EI < 20 or liquid limit less than 30 (LL< 12), with no particles greater than 3 inches and 20 to 80% of the soil particles passing the #200 sieve. Imported fill meeting these requirements shall be placed in 8 inch loose lifts,*	

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		moisture conditioned and compacted to the moisture content and percent relative compaction stated in table 5.2. A CTE representative shall approve all imported soils prior to delivery to the site. *If unanticipated, unsuitable or unstable materials are encountered at the surface improvement subgrade or structure over-excavation such that proper compacted and stable materials cannot be obtained, over-excavations to remove such materials may be required. A licensed Geotechnical Engineer shall inspect and approve all structure over-excavations, pavement and surface improvement subgrade areas to confirm that adequate soil conditions have been reached. The geotechnical engineer shall also observe and approve the scarification, moisture conditioning and recompaction of the excavated surfaces and the placement of all engineered fill.* 11. *All earthworks shall be observed and tested by a licensed Geotechnical Engineer to verify that grading activity has been performed according to the recommendations contained within the Geotechnical Engineering Investigation prepared for the Project. The project engineer shall evaluate all footing excavations before reinforcing steel placement. To assure that the recommendations contained within the Geotechnical Engineering Investigation are adhered to the following minimum inspection and testing services shall be performed with regard to the geotechnical design of the project.* a. *Continuous observation and testing during mass grading.* b. *Footing excavation inspection.* c. *Periodic Utility trench backfill testing for moisture and relative compaction.* d. *Slab subgrade inspection and testing prior to the placement of capillary moisture break materials for moisture and relative compaction.* e. *Pavement Class 2 Base inspection and testing prior to the placement of asphalt or concrete pavement.*	

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		f. Asphalt relative compaction testing during pavement placement. *12. During Project construction, the Project proponent shall ensure that the areas underlying proposed structures be over excavated to the depth stated in Table 5.2 of the Geotechnical Engineering Investigation prepared for the Project by Construction Testing & Engineering, Inc. (CTE). The building pad over excavation shall extend to a minimum distance of at least 5 feet outside of all proposed structure areas if possible.*	
Impact 3.6-4: The proposed Project has the potential to result in development 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	LS		--
Impact 3.6-5: The proposed Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature	PS	***Mitigation Measure 3.6-3:*** *Prior to approval of a grading permit, the Project proponent shall ensure that grading and improvement plans include the following note: "If any paleontological resources are found during grading and construction activities of the Project, all work shall be halted immediately within a 200-foot radius of the discovery until a qualified paleontologist has evaluated the find. Work shall not continue at the discovery site until the paleontologist evaluates the find and makes a determination regarding the significance of the resource and identifies recommendations for conservation of the resource, including preserving in place or relocating on the Project site, if feasible, or collecting the resource to the extent feasible and documenting the find with the University of California Museum of Paleontology."*	LS
GREENHOUSE GASES, CLIMATE CHANGE AND ENERGY			
Impact 3.7-1: Project implementation would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant	LS		--

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
impact on the environment and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases			
Impact 3.7-2: Project implementation would not result in the inefficient, wasteful, or unnecessary use of energy resources, and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency	LS		--
HAZARDS AND HAZARDOUS MATERIALS			
Impact 3.8-1: Potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials or through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment	PS	***Mitigation Measure 3.8-1***: *Prior to approval of the final map for the Project site, the Project applicant shall hire a qualified consultant to perform additional soil and site testing. The following areas of the Project site have already been deemed to have potentially hazardous conditions present:* • *Petroleum: The eastern portion of the Project site where several drums of waste oil, oil, oil filters and paint were previously dumped and impacted the soil.* • *Agrichemicals: The portions of the Project site which were previously used for agricultural uses.* *The intent of the additional testing is to investigate whether soils contain hazardous materials, including petroleum products or agrichemicals (including pesticides, herbicides, diesel, petrochemicals, etc.).* *A soil sampling and analysis workplan shall be submitted for approval the San Joaquin County Environmental Health Department prior to the work. The sampling and analysis plan shall meet the requirements of the Department of Toxic Substances Control Interim Guidance for Sampling Agricultural Properties (2008), and the County Department of*	LS

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		Environmental Resources Recommended Soil and Groundwater Sampling for Underground Tank Investigations (2013). *If the sampling results indicate the presence of agrichemicals that exceed commercial screening levels, a removal action workplan shall be prepared in coordination with San Joaquin County Environmental Health Department. The removal action workplan shall include a detailed engineering plan for conducting the removal action, a description of the onsite contamination, the goals to be achieved by the removal action, and any alternative removal options that were considered and rejected and the basis for that rejection. A no further action letter shall be issued by San Joaquin County Environmental Health Department upon completion of the removal action. The removal action shall be deemed complete when the confirmation samples exhibit concentrations below the commercial screening levels, which will be established by the agencies.* ***Mitigation Measure 3.8-2**: Prior to bringing hazardous materials onsite, the applicant shall submit a Hazardous Materials Business Plan (HMBP) to the San Joaquin County Environmental Health Department (CUPA) for review and approval. If during the construction process the applicant or any subcontractors generates hazardous waste, the applicant must register with the CUPA as a generator of hazardous waste, obtain an EPA ID# and accumulate, ship and dispose of the hazardous waste per Health and Safety Code Ch. 6.5. (California Hazardous Waste Control Law).* ***Mitigation Measure 3.8-3**: Prior to initiation of any ground disturbance activities within 50 feet of a well, the applicant shall hire a licensed well contractor to obtain a well destruction permit from San Joaquin County Environmental Health Department, and properly abandon and destruct the onsite wells, pursuant to review and approval of the City Engineer and the San Joaquin County Environmental Health Department.*	
Impact 3.8-2: Potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within	LS		--

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one-quarter mile of an existing or proposed school			
Impact 3.8-3: Potential to result in impacts from being included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5	LS		--
Impact 3.8-4: Potential for the Project to result in a safety hazard or excessive noise an airport for people residing or working in the Project area	LS		--
Impact 3.8-5: Potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan	LS		--
HYDROLOGY AND WATER QUALITY			
Impact 3.9-1: The proposed Project has the potential to violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality	LS		--
Impact 3.9-2: Project implementation could deplete groundwater supplies or interfere substantially with groundwater recharge	LS		--
Impact 3.9-3: The proposed Project would not alter the existing drainage pattern of the site or	LS		--

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area, including the alteration of the course of a river or through the addition of impervious surfaces, in a manner which would result in substantial erosion, siltation, surface runoff, flooding, or polluted runoff			
Impact 3.9-4 The proposed Project has the potential to, in a flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation	LS		--
Impact 3.9-5: The proposed Project has the potential to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	LS		--
LAND USE			
Impact 3.10-1: The proposed Project would not physically divide an established community	LS		--
Impact 3.10-2: The proposed Project would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project adopted to avoid or mitigate an environmental effect	LS		--
NOISE			
Impact 3.11-1: The proposed Project has the potential to generate a substantial temporary or	PS	***Mitigation Measure 3.11-1:*** *The proposed noise barrier at the northern boundary of the project must be extended an additional 35 feet to the west to adequately shield the entire*	LS

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
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		*outdoor area of the sensitive receptor to the north. The total wall length should be at least 250 feet. The extended barrier is depicted in Figure 3.11-3.* ***Mitigation Measure 3.11-2:*** *The following multi-part mitigation measure shall be implemented during construction of the Project:* • *Construction activities (excluding activities that would result in a safety concern to the public or construction workers) shall be prohibited between the hours of ten p.m. of one day and seven a.m. of the next day, or eleven p.m. and nine a.m. Fridays, Saturdays and legal holidays.* • *Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations. Equipment engine shrouds shall be closed during equipment operation.* • *When not in use, motorized construction equipment shall not be left idling for more than 5 minutes.* • *Stationary equipment (power generators, compressors, etc.) shall be located at the furthest practical distance from nearby noise-sensitive land uses or sufficiently shielded to reduce noise-related impacts.* *These requirements shall be noted on the Project improvement plans and implemented prior to approval of grading and/or building permits. The City of Lathrop Community Development Department shall review and approve the improvements plans.*	
Impact 3.11-2: The proposed Project would not generate excessive groundborne vibration or groundborne noise levels	LS		--
Impact 3.11-3: The proposed Project is not located within the vicinity of a private airstrip or an airport land use plan, within two miles of a	NI		--

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
public airport or public use airport, and would not expose people residing or working in the Project area to excessive noise levels			
PUBLIC SERVICES AND RECREATION			
Impact 3.12-1: The proposed Project will not result in or require the construction of police department facilities which may cause substantial adverse physical environmental impacts	LS		--
Impact 3.12-2: The proposed Project will not require the construction of fire department facilities which may cause substantial adverse physical environmental impacts	LS		--
Impact 3.12-3: The proposed Project will not 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, but the proposed Project will require the construction of park and recreational facilities which may cause substantial adverse physical environmental impacts	LS		--

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
Impact 3.12-4: Project implementation will not result in the need for the construction of new schools which have the potential to cause substantial adverse physical environmental impacts	LS		--
Impact 3.12-5: The proposed Project will not have significant effects on other public facilities	LS		--
TRANSPORTATION AND CIRCULATION			
Impact 3.13-1: Implementation of the proposed Project would not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities	PS	***Mitigation Measure 3.13-1:*** *The Project applicant shall coordinate with the City to construct sidewalks along the Project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The Project applicant shall work with the City to refine the design of the re-aligned Manthey Road at the Project driveway to provide the following:* • *One southbound through travel lane;* • *One 150-foot southbound left-turn lane:* • *One northbound through travel lane'* • *One northbound shared through / right-turn lane;* • *One westbound left-turn lane;* • *One westbound right-turn lane; and* • *One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.* *This requirement shall be noted on the Project improvement plans.*	LS

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Impact 3.13-2: Implementation of the proposed Project would not conflict with or be inconsistent with CEQA Guideline section 15064.3, subdivision (b)	LS		--
Impact 3.13-3: Implementation of the proposed Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)	PS	*Implement* ***Mitigation Measure 3.13-1.*** ***Mitigation Measure 3.13-2:*** *The Project applicant shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which shall be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.* ***Mitigation Measure 3.13-3:*** *The Project applicant shall coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection. This requirement shall be noted on the Project improvement plans.* ***Mitigation Measure 3.13-4:*** *The Project applicant shall coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided. This requirement shall be noted on the Project improvement plans.*	LS
Impact 3.13-4: Implementation of the proposed Project would not result in inadequate emergency access	LS		--

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ENVIRONMENTAL IMPACT	*LEVEL OF SIGNIFICANCE WITHOUT MITIGATION*	*MITIGATION MEASURE*	*RESULTING LEVEL OF SIGNIFICANCE*
UTILITIES			
Impact 3.14-1: The proposed Project would not require or result in the construction of new wastewater treatment or collection facilities or expansion of existing facilities, the construction of which could cause significant environmental effects	LS		--
Impact 3.14-2: The proposed Project does not have the potential to result in a determination by the wastewater treatment and/or collection provider which serves the Project that the provider does not have adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments	LS		--
Impact 3.14-3: The proposed Project would not require or result in the relocation or construction of new or expanded water facilities, the construction or relocation of which could cause significant environmental effects	LS		--
Impact 3.14-4: The proposed Project would not result in insufficient water supplies available to serve the Project from existing entitlements and resources	LS		--
Impact 3.14-5: The proposed Project would not require or result in the relocation or construction of new or expanded stormwater drainage	LS		--

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facilities, the construction or relocation of which could cause significant environmental effects			
Impact 3.14-6: The landfills that would serve the proposed Project have sufficient permitted capacity to accommodate the Project's solid waste disposal needs, and the proposed Project will comply with federal, State, and local statutes and regulations related to solid waste	LS		--
CUMULATIVE IMPACTS			
Impact 4.1: Cumulative Damage to Scenic Resources within a State Scenic Highway	LS		--
Impact 4.2: Cumulative Conflicts with the Applicable Zoning and Other Regulations Governing Scenic Quality	LS		--
Impact 4.3: Cumulative Impact on Light and Glare	LS		--
Impact 4.4: Cumulative Impact on Agricultural Resources	LS		--
Impact 4.5: Cumulative Impact on the Region's Air Quality	PS		CC and SU
Impact 4.6: Cumulative Loss of Biological Resources Including Habitats and Special Status Species	LS		--

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Impact 4.7: Cumulative Impacts on Known and Undiscovered Cultural Resources	LS		--
Impact 4.8: Cumulative Impact on Geologic and Soils Resources	LS		--
Impact 4.9: Cumulative Impact on Climate Change from Increased Project-Related Greenhouse Gas Emissions	LS		--
Impact 4.10: Cumulative Impact Related to Hazards and Hazardous Materials	LS		--
Impact 4.11: Cumulative Increases in Peak Stormwater Runoff from the Project site	LS		--
Impact 4.12: Cumulative Impacts Related to Degradation of Water Quality	LS		--
Impact 4.13: Cumulative Impacts Related to Degradation of Groundwater Supply or Recharge	LS		--
Impact 4.14: Cumulative Impacts Related to Flooding	LS		--
Impact 4.15: Cumulative Impact on Communities and Local Land Uses	LS		--
Impact 4.16: Cumulative Exposure of Existing and Future Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development	LS		--

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Impact 4.17: Cumulative Impact on Public Services	LS		--
Impact 4.18: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)	LS		--
Impact 4.19: Under Cumulative conditions, the proposed Project would not adversely affect pedestrian and bicycle facilities	LS		--
Impact 4.21: Cumulative Impact on Wastewater Utilities	LS		--
Impact 4.22: Cumulative Impact on Water Utilities	LS		--
Impact 4.23: Cumulative Impact on Stormwater Facilities	LS		--
Impact 4.24: Cumulative Impact on Solid Waste Facilities	LS		--

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1.1 PURPOSE AND INTENDED USES OF THE EIR

The City of Lathrop, as the lead agency, determined that the proposed Singh Petroleum Investments Project is a "project" within the definition of CEQA, and is referred to herein as the "Project". CEQA requires the preparation of an environmental impact report (EIR) prior to approving any project that may have a significant impact on the environment. For the purposes of CEQA, the term "project" refers to the whole of an action, which has the potential for resulting in a direct physical change or a reasonably foreseeable indirect physical change in the environment (CEQA Guidelines Section 15378[a]).

An EIR must disclose the expected environmental impacts, including impacts that cannot be avoided, growth-inducing effects, impacts found not to be significant, and significant cumulative impacts, as well as identify mitigation measures and alternatives to the proposed project that could reduce or avoid its adverse environmental impacts. CEQA requires government agencies to consider and, where feasible, minimize significant environmental impacts of proposed development. CEQA also requires agency decision-makers, when considering the approval of projects with significant unavoidable environmental effects, to balance a variety of public objectives, including economic, environmental, and social factors.

The City of Lathrop, as the lead agency, has prepared this Draft EIR to provide the public and responsible and trustee agencies with an objective analysis of the potential environmental impacts resulting from implementation of the proposed Project. The environmental review process enables interested parties to evaluate the proposed Project in terms of its environmental consequences, to examine and recommend methods to eliminate or reduce potential adverse impacts, and to consider a reasonable range of alternatives to the proposed Project. This EIR will be used by the Planning Commission and City Council of the City of Lathrop to determine whether to approve, modify, or deny the proposed Project and associated approvals in light of the Project's environmental effects. The EIR will be used as the primary environmental document to evaluate full development, all associated infrastructure improvements, and permitting actions associated with the proposed Project. All of the actions and components of the proposed Project are described in detail in Chapter 2.0, Project Description.

1.2 TYPE OF EIR

The State CEQA Guidelines identify several types of EIRs, each applicable to different project circumstances. This EIR has been prepared as a Project-level EIR, described in State CEQA Guidelines § 15161 as: "The most common type of EIR (which) examines the environmental impacts of a specific development project. This type of EIR should focus primarily on the changes in the environment that would result from the development project. The EIR shall examine all phases of the project including planning, construction, and operation. The project-level analysis considers the broad environmental effects of the proposed Project.

1.3 RESPONSIBLE AND TRUSTEE AGENCIES

CEQA generally requires that Notices of Preparation (NOPs) and Draft EIRs be circulated to "responsible agencies" and "trustee agencies." As required by CEQA, this EIR defines lead, responsible, and trustee agencies. The City of Lathrop is the "Lead Agency" for the project because it holds principal responsibility for approving the project. The term "Responsible Agency" includes all public agencies other than the Lead Agency that have discretionary approval power over the project or an aspect of the project (CEQA Guidelines Section 15381). For the purpose of CEQA, a "Trustee" agency has jurisdiction by law over natural resources that are held in trust for the people of the State of California. CEQA Guidelines Section 15386 recognizes four particular trustee agencies: (a) the California Department of Fish and Wildlife with regard to the fish and wildlife of the State, to designated rare or endangered native plants, and to game refuges, ecological reserves, and other areas administered by the department; (b) the State Lands Commission with regard to State owned "sovereign" lands such as the beds of navigable waters and State school lands; (c) the State Department of Parks and Recreation with regard to units of the State Park System; and (d) The University of California with regard to sites within the Natural Land and Water Reserves System.

The following agencies may be required to issue permits or approve certain aspects of the proposed Project. Other governmental agencies that may require approvals in connection with the Project include, but are not limited to, the following:

- San Joaquin Local Agency Formation Commission (LAFCO) - Annexation;
- San Joaquin Council of Governments (SJCOG) - Compliance with Airport Land Use Compatibility Plan (ALUCP) and San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP)Compliance;
- San Joaquin Valley Air Pollution Control District (SJVAPCD) - Approval of construction-related air quality permits. Additionally, as an industrial development, the Project may be subject to Indirect Source Review (ISR) by the SJVAPCD;
- Central Valley Regional Water Quality Control Board (CVRWQCB) - Storm Water Pollution Prevention Plan (SWPPP) approval prior to construction activities pursuant to the Clean Water Act and water quality certification pursuant to Section 401 of the Clean Water Act;
- San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) - Participation in the program to mitigate biological impacts of converting open space land;
- Lathrop Manteca Fire District - Plan check of the site plan and roadway improvements for adequate emergency vehicle access and fire flow capabilities.

Finally, the Project may also require a Clean Water Act Section 404 permit from the United States Army Corps of Engineers (USACE) and/or an Endangered Species Act Section 7 permit from the U.S. Fish and Wildlife Service (USFWS). As federal agencies not subject to California law, the USACE and USFWS, strictly speaking, is neither a responsible agency nor a trustee agency. Instead, as a federal agency, they are each subject to the National Environmental Policy Act (NEPA) rather than CEQA.

The following agency is considered Trustee Agencies for this project, and may be required to issue permits or approve certain aspects of the proposed Project:

- California Department of Fish and Wildlife – Trustee of California fish and wildlife.

The City is unaware of any other trustee agency, or State owned "sovereign" lands, any units of the State Park System, or any sites within the University of California's Natural Land and Water Reserves System.

1.4 ENVIRONMENTAL REVIEW PROCESS

The review and certification process for the EIR has involved, or will involve, the following general procedural steps:

NOTICE OF PREPARATION

The City of Lathrop circulated a NOP of an EIR for the proposed Project on December 22, 2022 to the State Clearinghouse, State Responsible Agencies, State Trustee Agencies, Other Public Agencies, and Organizations and Interested Persons. A public scoping meeting was held on January 11, 2023 to present the project description to the public and interested agencies, and to receive comments from the public and interested agencies regarding the scope of the environmental analysis to be included in the Draft EIR. Concerns raised in response to the NOP were considered during preparation of the Draft EIR. The IS and NOP comments are presented in Appendix A.

DRAFT EIR

This document constitutes the Draft EIR. The Draft EIR contains a description of the proposed Project, description of the environmental setting, identification of project impacts, and mitigation measures for impacts found to be significant, as well as an analysis of project alternatives, identification of significant irreversible environmental changes, growth-inducing impacts, and cumulative impacts. This Draft EIR identifies environmental categories for which the Project was determined to have no impacts or less than significant impacts, and provides detailed analysis of potentially significant and significant impacts. Comments received in response to the NOP were considered in preparing the analysis in this EIR. Upon completion of the Draft EIR, the City of Lathrop will file the Notice of Completion (NOC) with the State Clearinghouse of the Governor's Office of Planning and Research to begin the public review period. Additionally, the City of Lathrop will file the Notice of Availability with the County Clerk and have it published in a newspaper of regional circulation to begin the local public review period.

PUBLIC NOTICE/PUBLIC REVIEW

The City of Lathrop will provide a public notice of availability for the Draft EIR, and invite comment from the general public, agencies, organizations, and other interested parties. Consistent with CEQA, the review period for this Draft EIR is forty-five (45) days. Public comment on the Draft EIR will be accepted in written form. All comments or questions regarding the Draft EIR should be addressed to:

Attn: Rick Caguiat, Community Development Director
City of Lathrop, Community Development Department
390 Towne Centre Drive
Lathrop, CA 95330
(209) 941-7290
planning@ci.lathrop.ca.us

RESPONSE TO COMMENTS/FINAL EIR

Following the public review period, a Final EIR will be prepared. The Final EIR will respond to significant environmental issues raised either in written comments received during the public review period or in oral comments received at a public hearing during such review period.

CERTIFICATION OF THE EIR/PROJECT CONSIDERATION

CEQA Guidelines Section 15090 requires that, prior to approving a project, a lead agency's decisionmaker or decision making body must first "certify" the Final EIR prepared for the project. Here, for this proposed Project, the City Council City will be the City's ultimate decision-making body. In order to certify the Final EIR, the City Council will have to specifically certify that (i) the Final EIR has been completed in compliance with CEQA; (ii) that the Final EIR was presented to the decision-making body (the City Council), which reviewed and considered the information contained in the Final EIR prior to approving the project; and (iii) that the Final EIR reflects the lead agency's independent judgment and analysis. In general, an EIR has been completed "in compliance with CEQA" if the document meets applicable legal content requirements; shows a good faith effort at full disclosure of environmental information; and provides sufficient analysis to allow decisions to be made regarding the proposed project in contemplation of environmental considerations.

The level of detail contained throughout this EIR is consistent with Section 15151 of the CEQA Guidelines and recent court decisions, which provide the standard of adequacy on which this document is based. That provision state as follows:

> *"An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of the environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in the light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection but for adequacy, completeness, and a good faith effort at full disclosure."*

Following review and consideration of the Final EIR, the City Council may take action to approve, modify, or reject the Project. If the City Council approves or modifies the proposed Project, or chooses to approve one of the project alternatives set forth in this EIR, the City Council will have to adopt "CEQA Findings" pursuant to CEQA Guidelines section 15091. These findings are necessary to effectuate the substantive mandate of CEQA, as set forth Public Resources Code section 21002.

That statute provides that "public agencies should not approve projects as proposed if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of such projects."

The mandate announced in section 21002 is implemented, in part, through the requirement that agency decisionmakers must adopt findings before approving projects for which EIRs are required. For each significant environmental effect identified in an EIR for a project, the approving body must issue a written finding reaching one or more of three permissible conclusions. The first such finding is that changes or alterations have been required in, or incorporated into, the project that avoid or substantially lessen the significant environmental effect as identified in the Final EIR. The second permissible finding is that such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding, and that such changes have been adopted by such other agency or can and should be adopted by such other agency. The third potential conclusion is that specific economic, legal, social, technological, or other considerations, including provision of employment opportunities, make infeasible the mitigation measures or project alternatives identified in the Final EIR. (See CEQA Guidelines Section 15091[a]; see also Public Resources Code Section 21081[a].)

Here, because the Project as proposed and the alternatives other than "No Project" would have significant unavoidable environmental impacts, the City Council would also have to adopt, as part of any approval action, a Statement of Overriding Considerations. It must identify the economic, legal, social, technological, or other benefits, including region-wide or statewide environmental benefits, that the City Council determines outweigh the Project's or Alternative's unavoidable adverse environmental effects, thereby rendering them "acceptable." (See CEQA Guidelines Section 15093.)

Finally, as part of project approval, CEQA will require the City Council to adopt a Mitigation Monitoring and Reporting Program prepared in accordance with Public Resources Code Section 21081.6(a) and CEQA Guidelines Section 15097. This Mitigation Monitoring and Reporting Program must include all of the mitigation measures that have been incorporated into or imposed upon the Project to reduce or avoid significant effects on the environment, and must be designed to ensure that these measures are actually carried out during project implementation.

1.5 ORGANIZATION AND SCOPE

Sections 15122 through 15132 of the State CEQA Guidelines identify the content requirements for Draft and Final EIRs. An EIR must include a description of the environmental setting, an environmental impact analysis, mitigation measures, alternatives, significant irreversible environmental changes, growth-inducing impacts, and cumulative impacts. Discussion of the environmental issues addressed in the Draft EIR was established through review of environmental and planning documentation developed for the proposed Project, environmental and planning documentation prepared for recent projects located within the City of Lathrop, applicable local and regional planning documents, and responses to the NOP.

This Draft EIR is organized in the following manner:

EXECUTIVE SUMMARY

This Executive Summary summarizes the characteristics of the proposed Project, known areas of controversy and issues to be resolved, and provides a concise summary matrix of the proposed Project's environmental impacts and possible mitigation measures. This chapter identifies alternatives that reduce or avoid at least one significant environmental effect of the proposed Project.

CHAPTER 1.0 – INTRODUCTION

Chapter 1.0 briefly describes the purpose of the environmental evaluation, identifies the lead, trustee, and responsible agencies, summarizes the process associated with preparation and certification of an EIR, and identifies the scope and organization of the Draft EIR.

CHAPTER 2.0 – PROJECT DESCRIPTION

Chapter 2.0 provides a detailed description of the proposed Project, including the location, intended objectives, background information, the physical and technical characteristics, including the decisions subject to CEQA, related improvements, and a list of related agency action requirements.

CHAPTER 3.0 – ENVIRONMENTAL SETTING, IMPACTS AND MITIGATION MEASURES

Chapter 3.0 contains an analysis of environmental topic areas as identified below. Each subchapter addressing a topical area is organized as follows:

Environmental Setting. A description of the existing environment as it pertains to the topical area.

Regulatory Setting. A description of the regulatory environment that may be applicable to the proposed Project.

Impacts and Mitigation Measures. Identification of the thresholds of significance by which impacts are determined, a description of project-related impacts associated with the environmental topic, identification of appropriate mitigation measures, and a conclusion as to the significance of each impact.

The following environmental topics are addressed in this section:

- Aesthetics
- Agricultural Resources
- Air Quality
- Biological Resources
- Cultural and Tribal Resources
- Geology and Soils
- Greenhouse Gases, Climate Change and Energy
- Hazards and Hazardous Materials

- Hydrology and Water Quality
- Land Use
- Noise
- Public Services and Recreation
- Transportation and Circulation
- Utilities

CHAPTER 4.0 – OTHER CEQA-REQUIRED TOPICS

Chapter 4.0 evaluates and describes the following topics required by CEQA: impacts considered less-than-significant, significant and irreversible impacts, growth-inducing effects, cumulative, and significant and unavoidable environmental effects.

CHAPTER 5.0 – ALTERNATIVES TO THE PROJECT

State CEQA Guidelines Section 15126.6 requires that an EIR describe a range of reasonable alternatives to the proposed Project, which could feasibly attain most of the basic objectives of the proposed Project and avoid and/or lessen any of the significant environmental effects of the proposed Project. Chapter 5.0 provides a comparative analysis between the environmental impacts of the proposed Project and the selected alternatives.

CHAPTER 6.0 – REPORT PREPARERS

This section lists all authors and agencies that assisted in the preparation of the EIR, by name, title, and company or agency affiliation.

APPENDICES

This section includes all notices and other procedural documents pertinent to the EIR, as well as technical material prepared to support the analysis.

1.6 COMMENTS RECEIVED ON THE NOTICE OF PREPARATION

The City of Lathrop received five written comment letters on the NOP for the proposed Project. A copy of the letters is provided in Appendix A of this Draft EIR. The commenting agency/citizen is provided below.

TABLE 1.0-1: LIST OF COMMENTORS

LETTER NUMBER	*INDIVIDUAL OR SIGNATORY*	*AFFILIATION*	*DATE OF LETTER*
1	Tom Dumas	California Department of Transportation	1-19-23
2	Peter Minkel	Central Valley Regional Water Quality Control Board	1-20-23
3	Laurel Boyd	San Joaquin Council of Governments	12-27-22
4	Brian Clements	San Joaquin Valley Air Pollution Control District	1-19-23
5	Pricilla Torres-Fuentes	State of California Native American Heritage Commission	12-29-22

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2.1 PROJECT LOCATION

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 2.0-1 and 2.0-2 show the Project's regional location and vicinity. Figure 2.0-3 provides the APN map.

2.2 PROJECT SETTING

SITE TOPOGRAPHY

The Project site topography ranges greatly in elevation from approximately 8 to 21 feet above sea level. The high area is located in the eastern portion of the site while the low area is located in the western portion of the site. The majority of the Project site is generally characterized as flat.

EXISTING SITE USES

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), a foundation from a previously demolished abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

EXISTING SURROUNDING USES

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 2.0-4.

GENERAL PLAN LAND USE DESIGNATIONS AND ZONING

The Project site is currently located within San Joaquin County. The Project site is outside the Lathrop city limits, but within the City's Primary Sphere of Influence (SOI).

Existing City of Lathrop General Plan Land Use Designations

The Project site is currently designated Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map and Agriculture/General (A/G) by the San Joaquin County General Plan Land Use Map. The FC designation generally allows building densities of 1-2 stories and building intensity up to 60% site area coverage. This classification of commercial activity is somewhat of a hybrid in that it caters to uses which serve the regional market for specialized sales and service activities as well as uses which cater more strictly to the needs of the highway traveler. Specialized activities might include factory store centers, discount centers for home furniture, appliances, home improvement and sports, and commercial recreation centers for such activities such as bowling, skating, tennis, racquetball, water-oriented amusements and miniature golf. Uses which cater to the highway traveler include motels, restaurants, auto and truck sales and service, fuel stations, auto repair, RV sales and service, boat sales and service, sports equipment, bank service, truck stops and terminals, bus stops and facilities for overnight camping and RV parking.

The A/G designation provides for large-scale agricultural production and associated processing, sales, and support uses. The A/G Designation generally applies to areas outside areas planned for urban development where soils are capable of producing a wide variety of crops and/or support grazing. Typical building types include low-intensity structures associated with farming and agricultural processing and sales. The A/G designation provides for the following commercial agricultural operations and associated support uses:

- Crop production, grazing, and livestock raising facilities
- Agricultural processing facilities (e.g., canning operations, stockyards, feedlots)
- Agricultural support and sales (e.g., feed/grain storage, crop spraying, sale yards)
- Single-family detached dwellings
- Farm-employee housing and farm labor camps
- Accessory second units and ancillary residential structures
- Compatible public, quasi-public, and special uses
- Natural open space areas

The existing General Plan Land Use Map designations for the Project site and surrounding area is shown on Figure 2.0-5.

Existing San Joaquin County Zoning Designations

The Project site is currently zoned for Freeway Service Commercial (C-FS) and Agricultural (AG-40) uses by the San Joaquin County Zoning Code (Development Title). The C-FS zone provides for a wide range of manufacturing, distribution and storage uses which have moderate to high nuisance characteristics such as noise, heat, glare, odor, and vibration, and which require segregation from other land uses, and/or may require outside storage areas. New lots in this zone are a minimum of 10,000 sf. The AG-40 zone provides for the continuation of commercial agricultural enterprises. The existing zoning for the Project site and surrounding areas are shown in Figure 2.0-6.

SURROUNDING GENERAL PLAN DESIGNATIONS

Within San Joaquin County, lands to the west of the Project site are designated Agriculture/General (A/G). Lands to the north, east, and south of the Project site are designated as Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map. The City of Lathrop and San Joaquin County General Plan land use designations for the Project site and surrounding areas are shown on Figure 2.0-5.

2.3 PROJECT GOALS AND OBJECTIVES

Consistent with CEQA Guidelines Section 15124(b), a clear statement of objectives and the underlying purpose of the proposed Project shall be discussed. The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

The proposed Project identifies the following objectives:

- To develop a property of sufficient size to accommodate all of the following: a travel center that consists of a truck and auto repair shop, convenience store, adjoining fast food restaurants, restrooms, and auto and truck fuel dispensing area able to accommodate cars and semi-trucks per day;
- To provide visitor-serving facilities that maximize the benefits of the Project site's proximity to I-5 for all buildings and tenants and thereby minimize traffic generation on local streets by visitors exiting and reentering the freeway;
- To construct a facility with access to adequate existing or anticipated utility infrastructure to support planned operations;
- To accommodate the planned Roth Road / I-5 interchange improvements and realignment of Manthey Road;
- To create new jobs that can be filled wholly or partly by local residents; and
- To maximize tax revenues to the City of Lathrop.

2.4 PROJECT DESCRIPTION

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The Phase I site plan for the proposed Project is shown in Figure 2.0-7 and the Phase II site plan for the proposed Project is shown in Figure 2.0-8.

The proposed Project includes the following amenities:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands (12 dispensers);
    - Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.

- Various parking areas during Phases I and II, including:
    - 148 truck/trailer spaces, 163 passenger vehicle spaces (including 128 regular spaces, 28 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase I; and
    - 98 truck/trailer spaces, 203 passenger vehicle spaces (including 176 regular space, 20 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase II;
- A 13,846-sf full service 4-bay truck and automobile repair shop;
- A 16,668-sf building that will include the following:
    - Office space;
    - Restroom facilities, 8 showers;
    - Laundry facility with 12 sets of washer/dryer;
    - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
    - Two quick service restaurants, one with a drive-thru option;
    - Seating area for patrons to dine;
- Two dog run areas enclosed with metal fences.

PHASE I DEVELOPMENT

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed as an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-of-way (ROW) dedication for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I Project site and is identified as future ROW for future interchange improvements.

PHASE II DEVELOPMENT

Phase II of the Project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road.

SIGNAGE

A high rise pylon sign is proposed for this development for site identification and advertising located at the northeast corner of the site. The sign will house the TA logo, unleaded and diesel prices, and spaces to advertise the two quick service restaurants. There will also be an additional ground monument signs placed just north of the truck fuel islands for facility identification from the roadway. Signage is not part of the proposed entitlement request and will be reviewed separately at a future date. However, the

potential environmental impacts of the construction and operation of the proposed signage is analyzed within the CEQA document for the Project.

OPERATIONS

Both the Travel America and Repair Shop facility will be a 24/7 operations with at least 15 employees per shift. The repair shop will have 4 employees per shift. The quick service restaurant within Travel America will have 6 employees per shift and 4 employees per shift managing the store. There will be one supervisor and manager per shift. Total employee count will be 45 to 50 for all operations.

CIRCULATION

Background

Planned and previously-approved development projects within San Joaquin County, the City of Manteca, and the City of Lathrop will cause the Roth Road / I-5 interchange to operate at an unacceptable level. To address this, the City of Lathrop is working with the California Department of Transportation (Caltrans) to improve the Roth Road / I-5 interchange and realign Manthey Road.

These planned interchange improvements are not a part of the proposed Project. The intent for the proposed Project is that the site would be developed in Phase I, including the buildings (i.e., convenience store, including tenant spaces and the truck repair building, restrooms, etc.) and that in Phase II, the site would be modified to accommodate the planned Manthey Road realignment. The buildings developed during Phase I would remain and will not be modified as part of Phase II. As discussed below. Phase II would include circulation improvements related to site access, off-street parking, etc. Ultimately, the Manthey Road realignment will be triggered at a future point and as determined by the City via the Transportation Monitoring Program (TMP).

Phase I

Phase I includes four access points: a truck exit only driveway on Roth Road, an auto exit only driveway on the future Roth Road, a truck exit and entrance driveway on Manthey Road, and an auto exit and entrance driveway on Manthey Road. All auto vehicles will enter the site via the two driveways on Manthey Road. Passenger vehicles will exit on the north side of the property from a driveway located on the future Roth Road. Trucks will have two exits located at the southern driveway on Manthey Road and the driveway on future Roth Road. The truck exit on Manthey Road will reduce the number of trucks using the exit only on future Roth Road where the auto exit driveway will be located.

Phase II

Phase II includes three access points: an auto exit and entrance driveway at the southeastern corner of the site off a proposed cul-de-sac, an auto exit and driveway on the future Roth Road, and a truck exist and entrance driveway on the future realized Manthey Road. All auto vehicles will enter the site via two driveways (one on the future Roth Road and one at the cul-de-sac terminus). Trucks will have one exit located at the driveway on future Roth Road. The interim driveways included in Phase I will be abandoned. To minimize trucks/auto vehicle conflict, the ingress/egress were placed on different streets.

UTILITIES

Electricity, gas and telephone services are located immediately adjacent to the Project site along Manthey Road. Development of the proposed Project would not require the expansion of these facilities or any off-site improvements. Water and sewer connections would need to be extended onsite to serve the Project. Storm water service will be provided by a private storm water infiltration basin located within the Project boundaries.

PLANNED INFRASTRUCTURE IMPROVEMENTS

The construction of onsite and offsite infrastructure improvements would be required to accommodate development of the proposed Project, as described below.

Potable Water

Water services for the proposed Project would be extended to the Project site from existing services from the intersection of Harlan Road and Roth Road east of I-5. The water lines would need to be extended west under the overpass along Roth Road to the Project site.

Sewer

Sewer would be extended from the Project site from the intersection of Harlan Road and Roth Road east of I-5. The sewer lines would need to be extended west under the overpass along Roth Road to the Project site. The sanitary sewer line would be constructed within the existing ROW and no additional off-site ROW would be required for Project implementation.

Storm Drainage

A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site, as shown in Figure 2.0-7. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.

ANNEXATION

The Project site is currently within San Joaquin County, and within the City of Lathrop's Primary Sphere of Influence (SOI). The proposed Project would result in the annexation of APN 191-250-14 and 191-250-06 (which includes the Project site) into the City of Lathrop. The Project site APNs and surrounding APNs are shown on Figure 2.0-3.

GENERAL PLAN AMENDMENT

The proposed Project would require a General Plan Amendment to the City's Land Use Map to change land uses on the Project site. Changes to the Land Use Map would include changing the designation for APN 191-250-06 from A/G (County) to FC (City).

The proposed General Plan Land Use Map designation for the Project site is shown on Figure 2.0-9.

PRE-ZONING

The Project site is currently in jurisdiction of San Joaquin County and zoned for Freeway Service Commercial (C-FS) and Agricultural (AG-40) uses by the County. The San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Lathrop in conjunction with the proposed annexation. The City's pre-zoning will follow the land use designation intent of General Plan Land Use Map (Freeway Commercial), as such the site will be zoned Highway Commercial (CH). The pre-zoning would go into effect upon annexation into the City of Lathrop. As discussed in Section 17.44.050(A) of the City's Municipal Code, the CH district is intended primarily for application to areas along major highway entrances to the city in accord with policies of the general plan, where controlled access to the highway is afforded for the convenience of patrons traveling the highway by the provision of frontage roads, interchanges, channelized intersections and control over driveway spacing.

The proposed pre-zoning for the Project site is shown on Figure 2.0-10.

CONDITIONAL USE PERMIT

Travel Plaza or Truck Stop is listed as a Conditional Use Permit in the Highway Commercial (HC) Zoning District (Section 17.44.050). As such, the Project would require the approval of a Conditional Use Permit (CUP) prior to Project approval.

SITE PLAN REVIEW

Pursuant to Chapter 17.100 of the City's Zoning Code, the Project would require a site review prior to Project approval.

2.5 USES OF THE EIR AND REQUIRED AGENCY APPROVALS

This EIR may be used for the following direct and indirect approvals and permits associated with adoption and implementation of the proposed Project.

CITY OF LATHROP

The City of Lathrop will be the Lead Agency for the proposed Project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050. Actions that would be required from the City include, but are not limited to, the following:

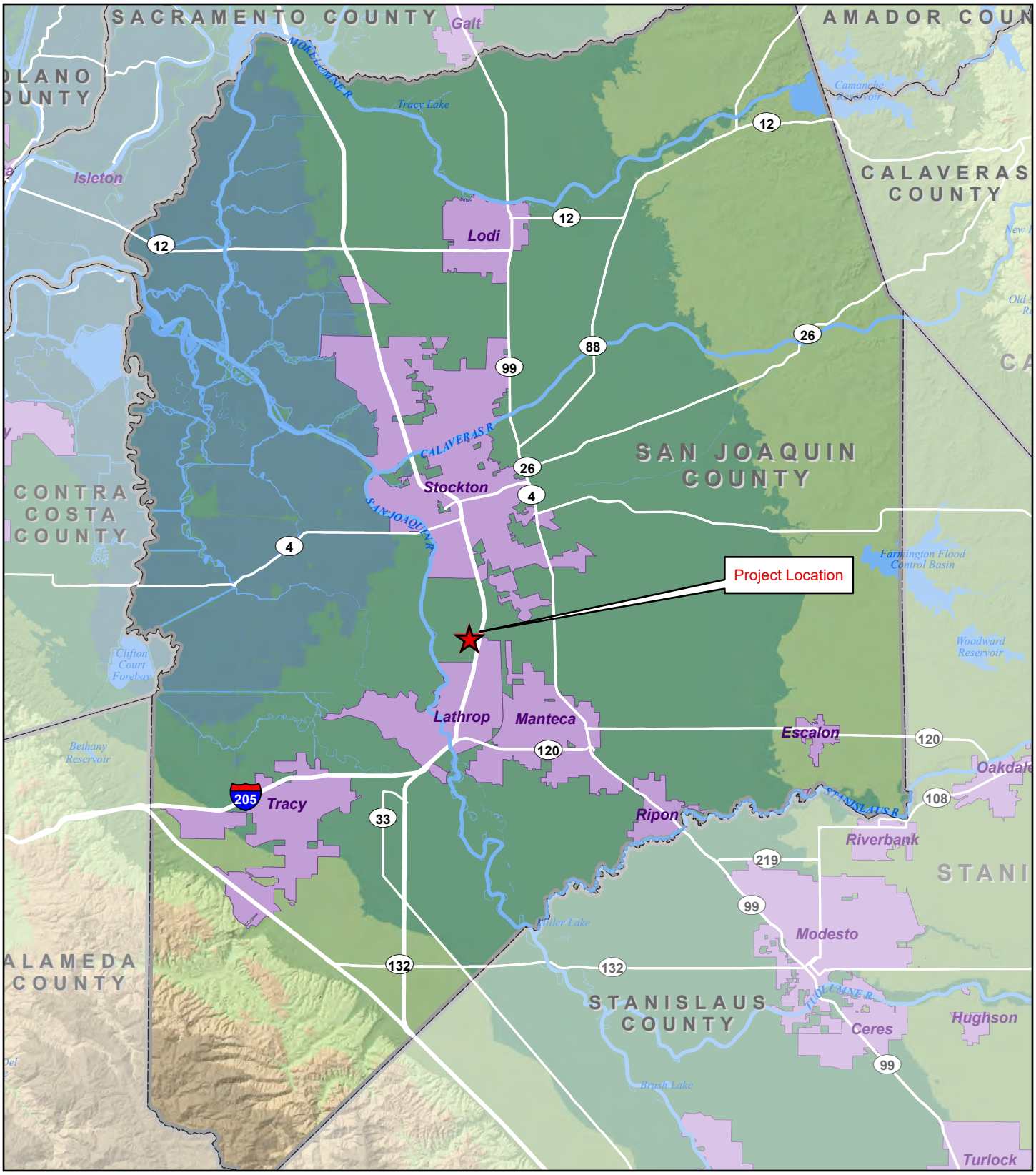
- Certification of the EIR;
- Adoption of the Mitigation Monitoring and Reporting Program;
- General Plan Amendment from A/G (County) to FC for APN 191-250-06;
- Annexation approval and the annexation of the subject parcels by the City of Lathrop and San Joaquin Local Agency Formation Commission;
- Pre-zoning for annexation of the Project site;
- Approval of Conditional Use Permit;
- Approval of Site Plan Review;
- Approval of Sign Design Application;

- Approval of Improvement Plans;
- Approval of Grading Plans;
- Approval of Building Permits;
- Approval of Project Utility Plans.

OTHER GOVERNMENTAL AGENCY APPROVALS

The following agencies may be required to issue permits or approve certain aspects of the proposed Project. Other governmental agencies that may require approval include, but are not limited to, the following:

- San Joaquin LAFCO - Annexation;
- San Joaquin Council of Governments (SJCOG) - Compliance with Airport Land Use Compatibility Plan (ALUCP) and San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) Compliance;
- San Joaquin Valley Air Pollution Control District (SJVAPCD) - Approval of construction-related air quality permits. Additionally, as an industrial development, the Project may be subject to Indirect Source Review (ISR) by the SJVAPCD;
- Central Valley Regional Water Quality Control Board (CVRWQCB) - Storm Water Pollution Prevention Plan (SWPPP) approval prior to construction activities pursuant to the Clean Water Act and water quality certification pursuant to Section 401 of the Clean Water Act;
- Lathrop Manteca Fire District - Plan check of the site plan and roadway improvements for adequate emergency vehicle access and fire flow capabilities.



SINGH PETROLEUM INVESTMENT PROJECT

Figure 2.0-1. Regional Map

Legend

- Project Location
- Incorporated Area
- County Boundary

0 2½ 5 Miles

Sources: California State Geoportal. Map date: December 13, 2022.

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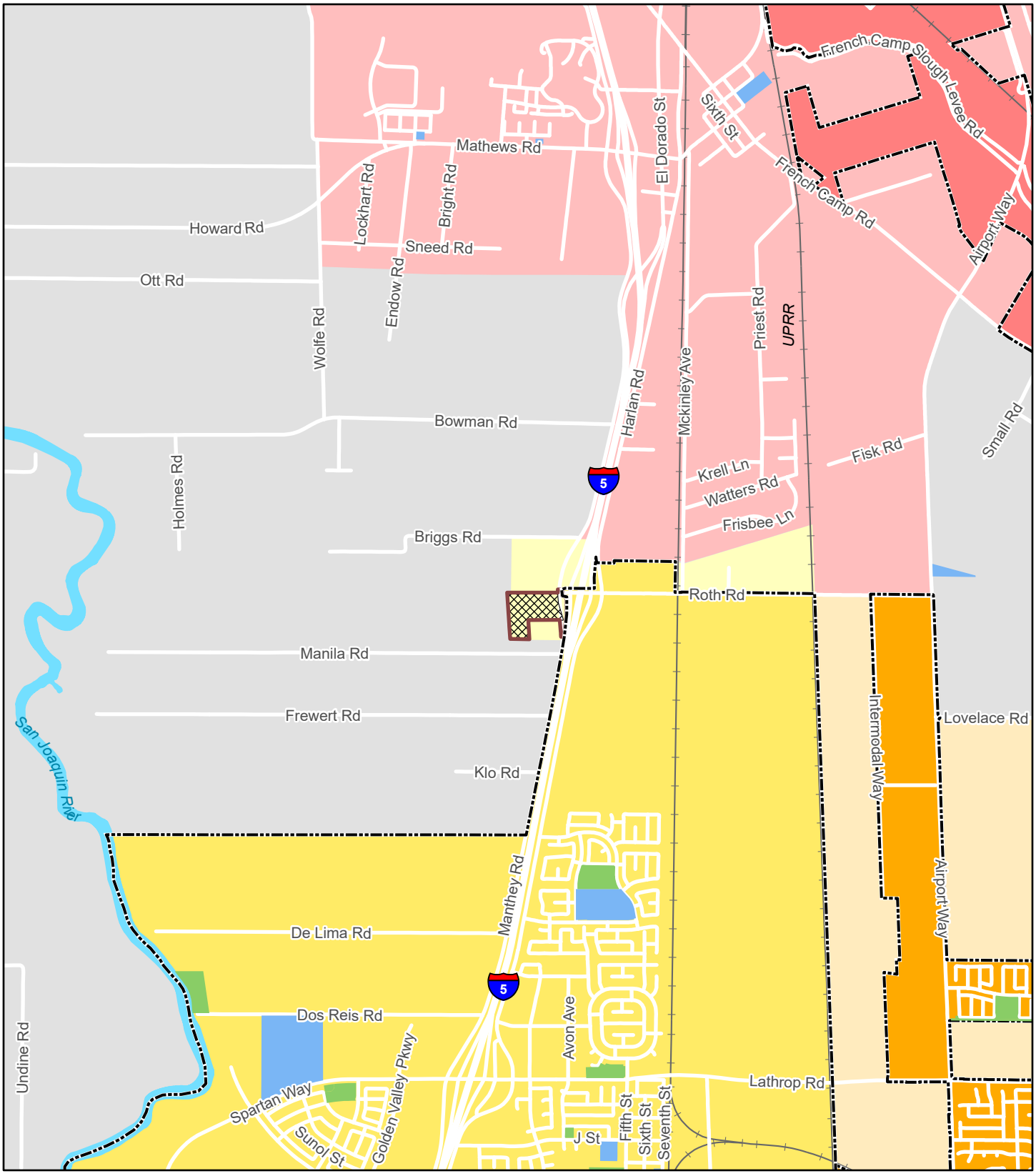

Legend

- Project Site / Annexation Area
- Development Area
- School
- Park
- City of Lathrop
- City of Manteca
- City of Stockton
- Lathrop SOI
- Manteca SOI
- Stockton SOI

SINGH PETROLEUM INVESTMENT PROJECT

Figure 2.0-2. Vicinity Map

0 1,000 2,000 Feet

Sources: San Joaquin County Assessor parcels, July 2022; San Joaquin County GIS. Map date: December 13, 2022.

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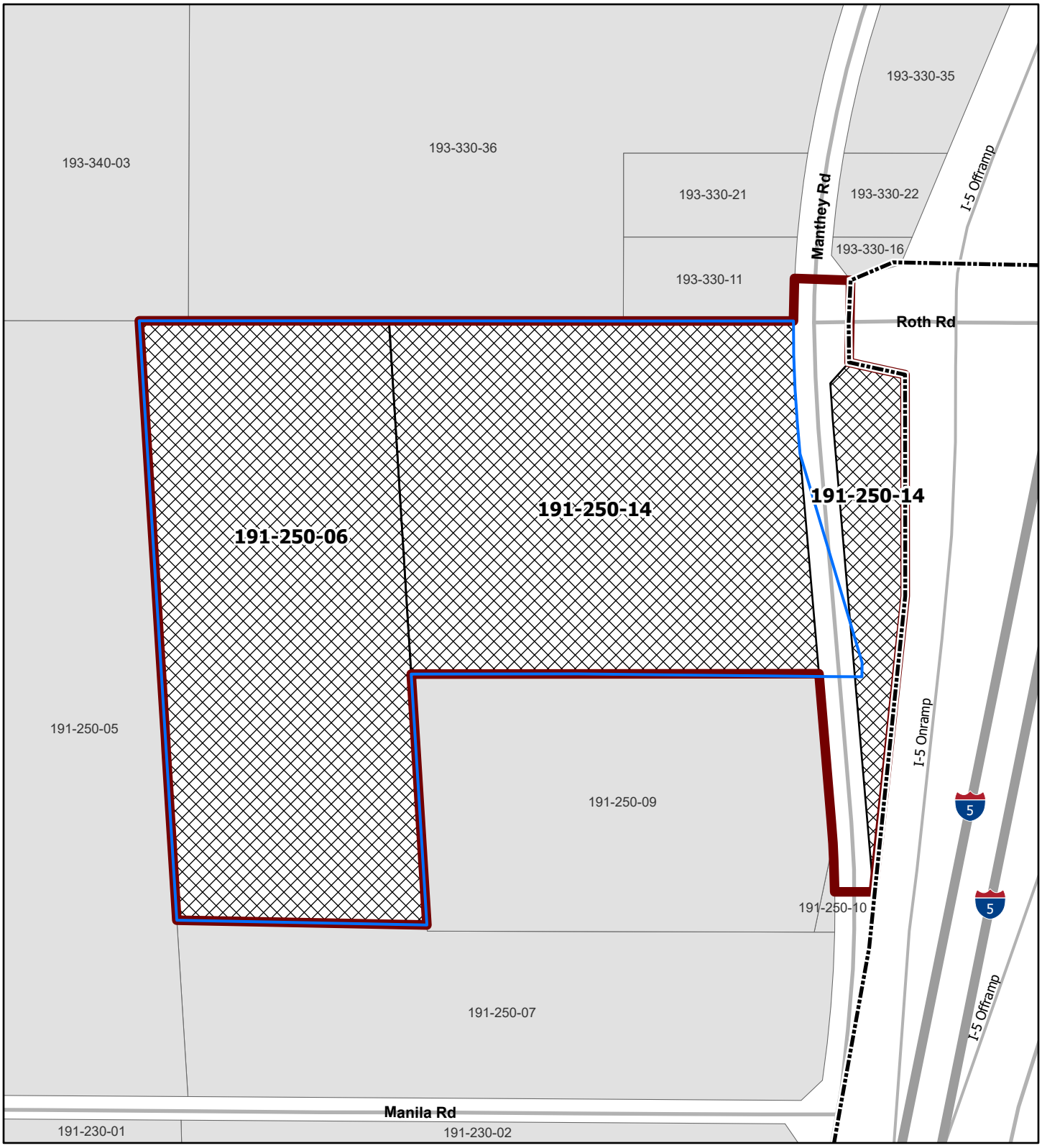

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Parcels to be Annexed
- Other Assessor Parcels

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-3. Assessor Parcel Map

0 100 200
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-4. Aerial View of Project

0 250 500
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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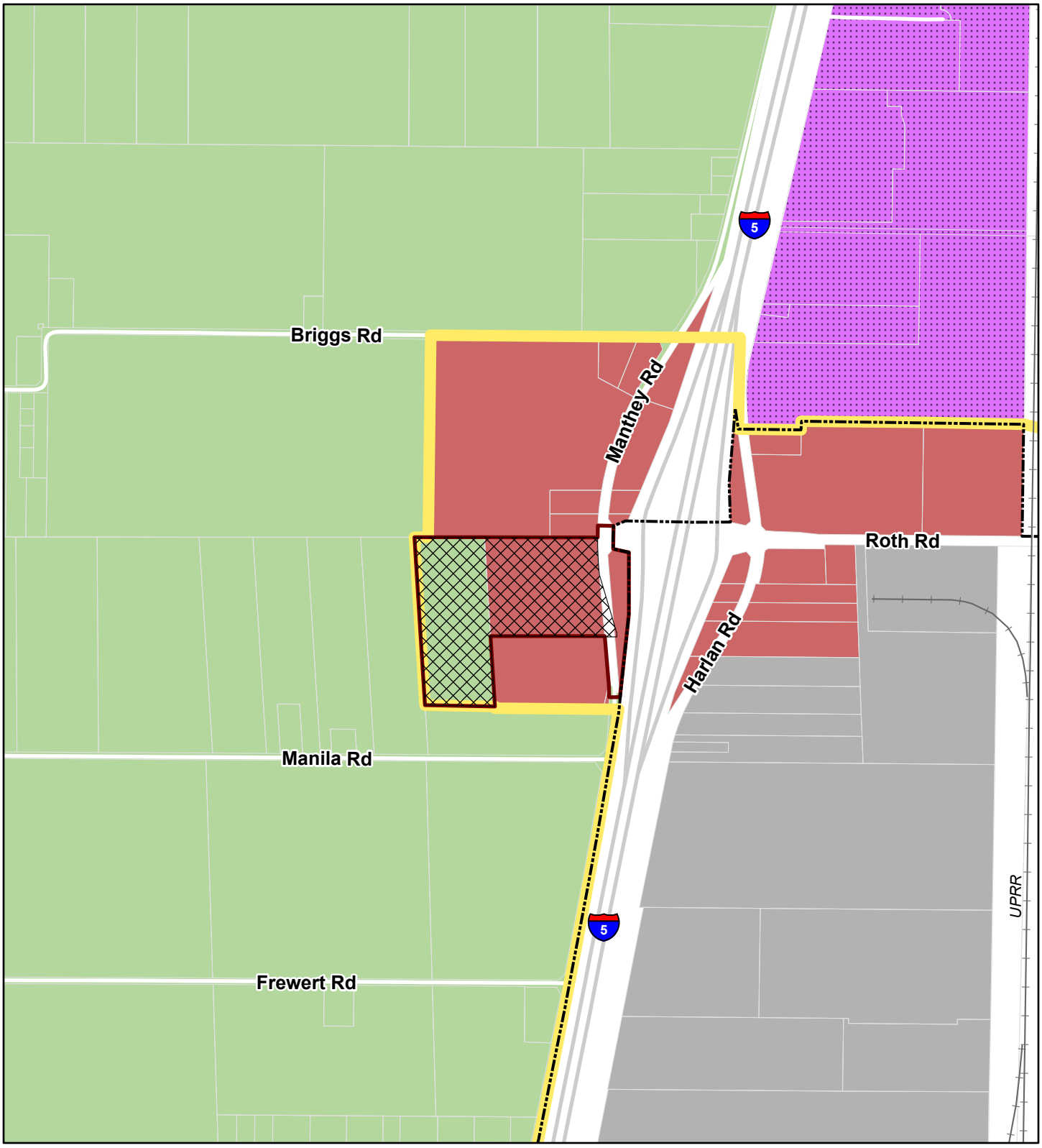

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-5. Existing General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 13, 2022.

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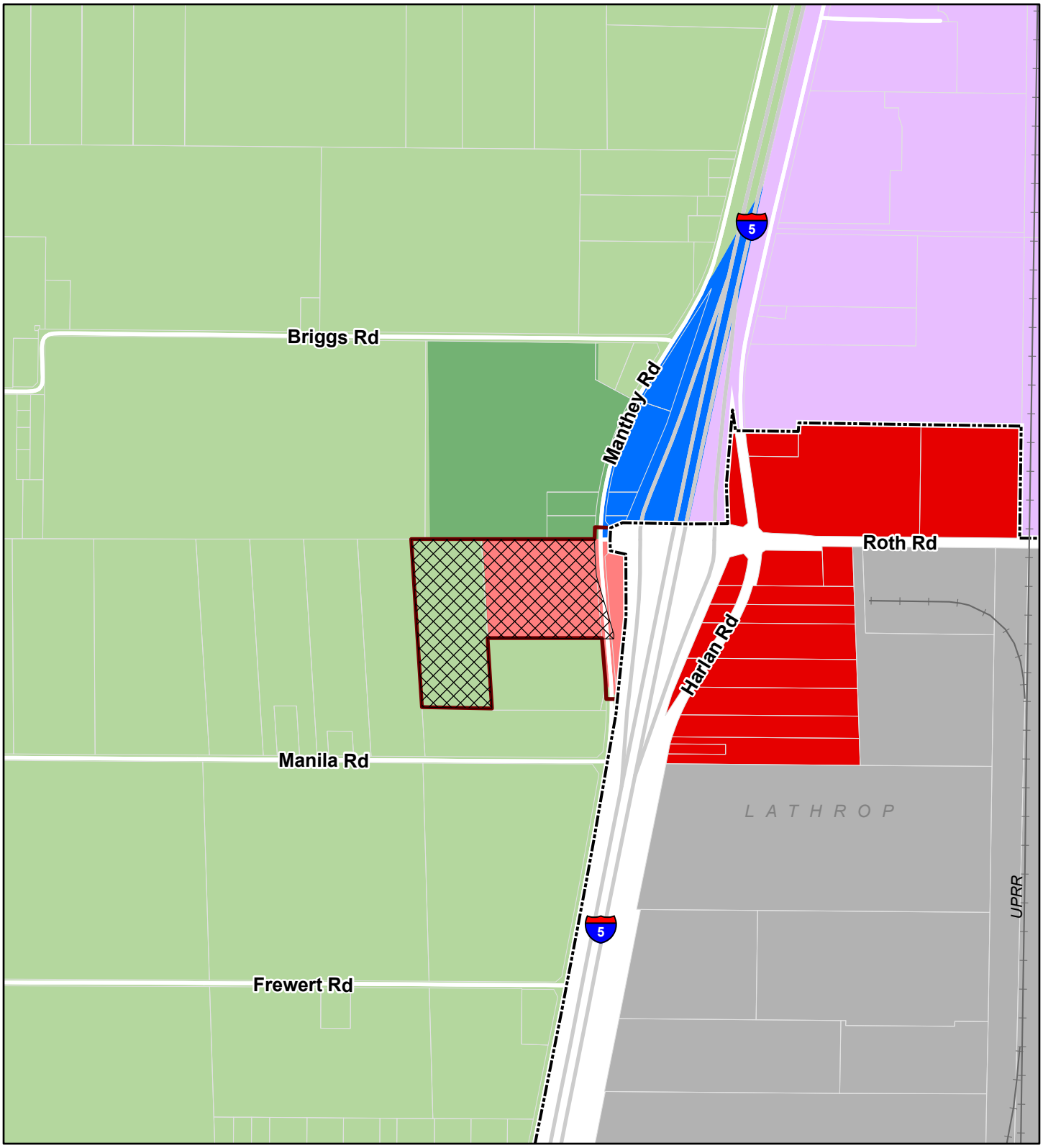

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- C-FS: Freeway Service Commercial
- I-G: General Industrial
- I-W: Warehouse Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-6. Existing Zoning Designations

0 250 500
Feet

Sources: San Joaquin County GIS. Map date: December 14, 2022.

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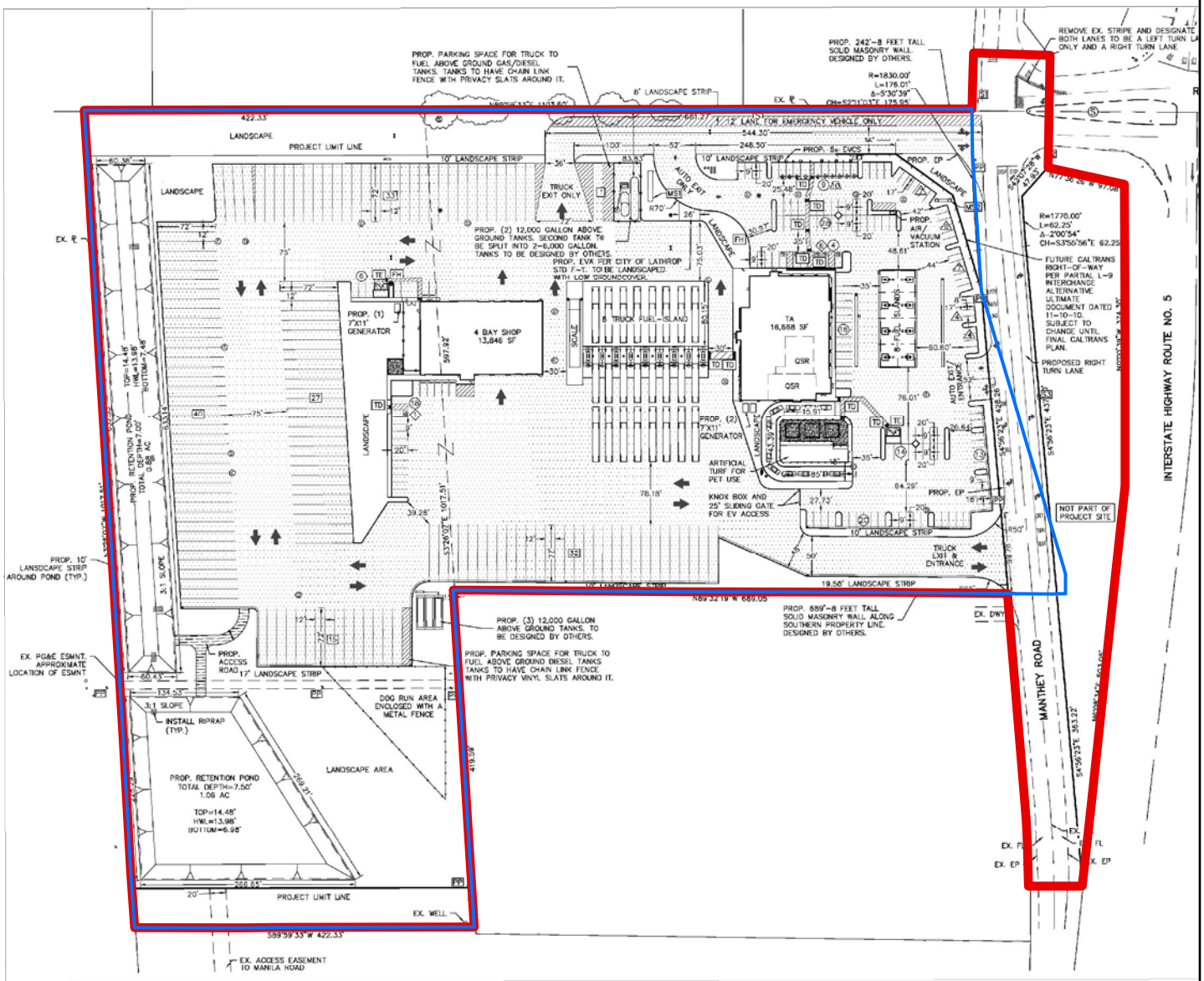

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Project Site/Annexation Area
- Development Area

Figure 2.0-7. Site Plan Phase I - Interim

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023. Map date: May 4, 2023.

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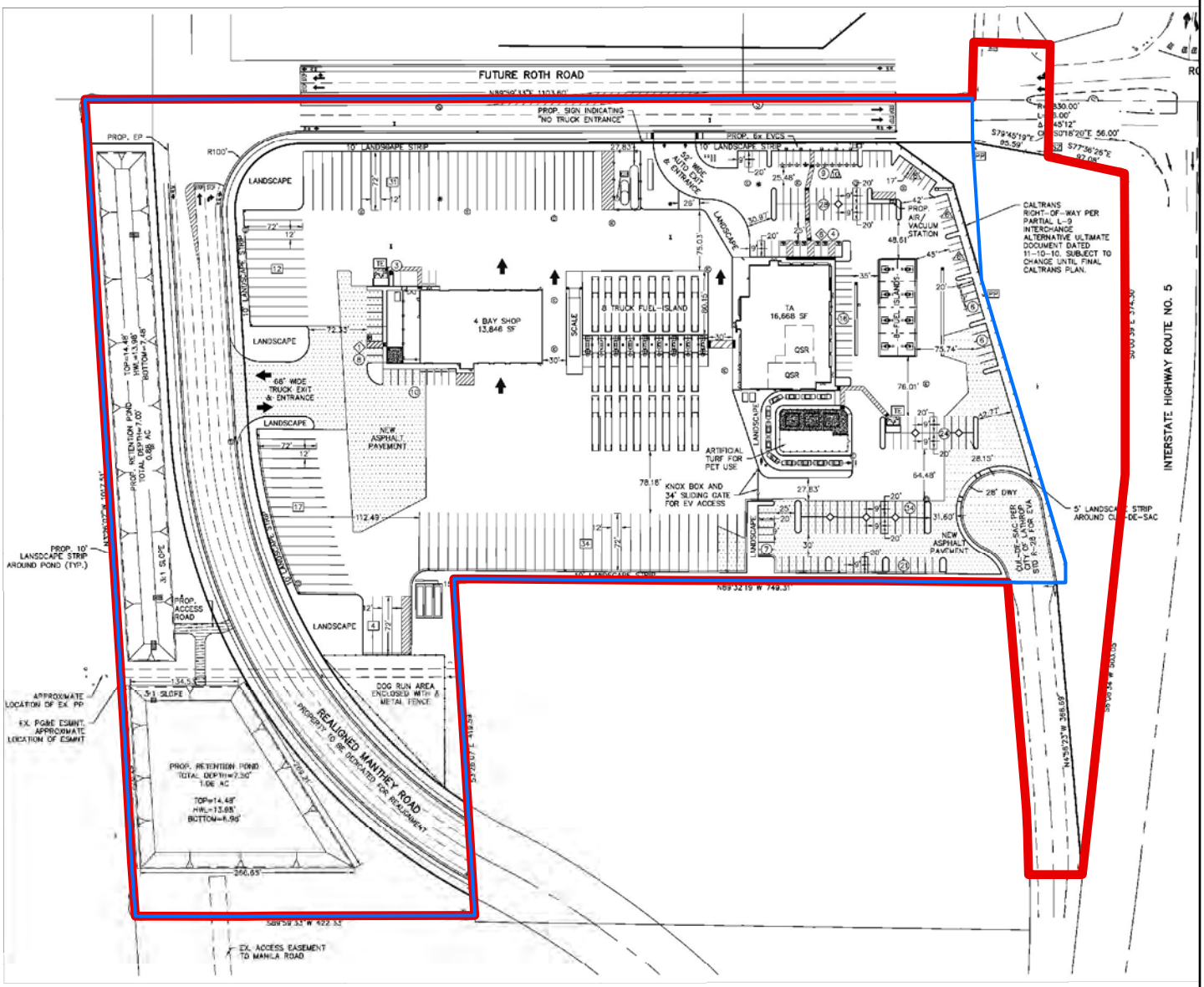

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Development Area
- Project Area/Annexation Area

Figure 2.0-8. Site Plan Phase II - Buildout

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023. Map date: May 4, 2023.

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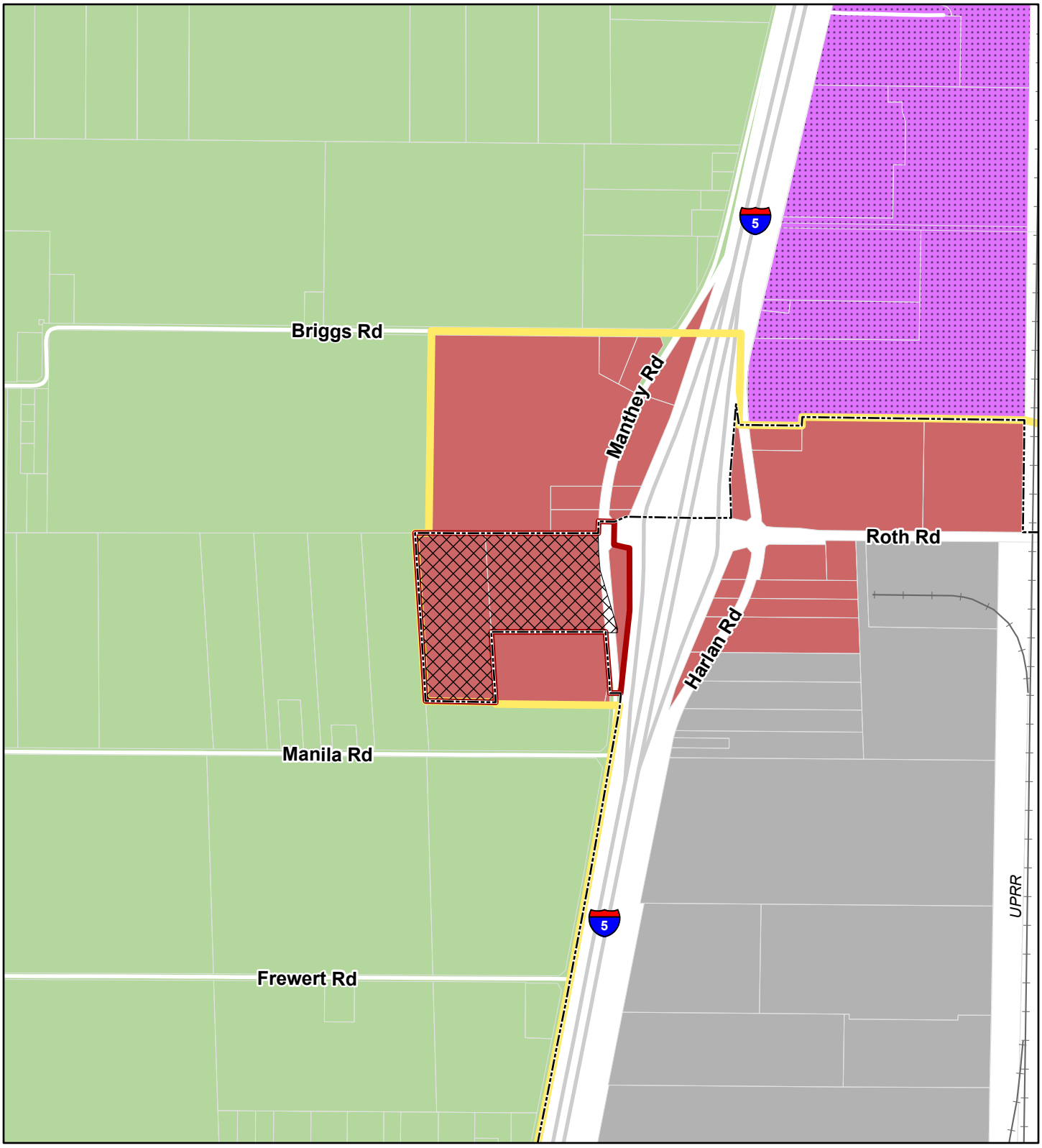

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits (Proposed)
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-9. Proposed General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 14, 2022.

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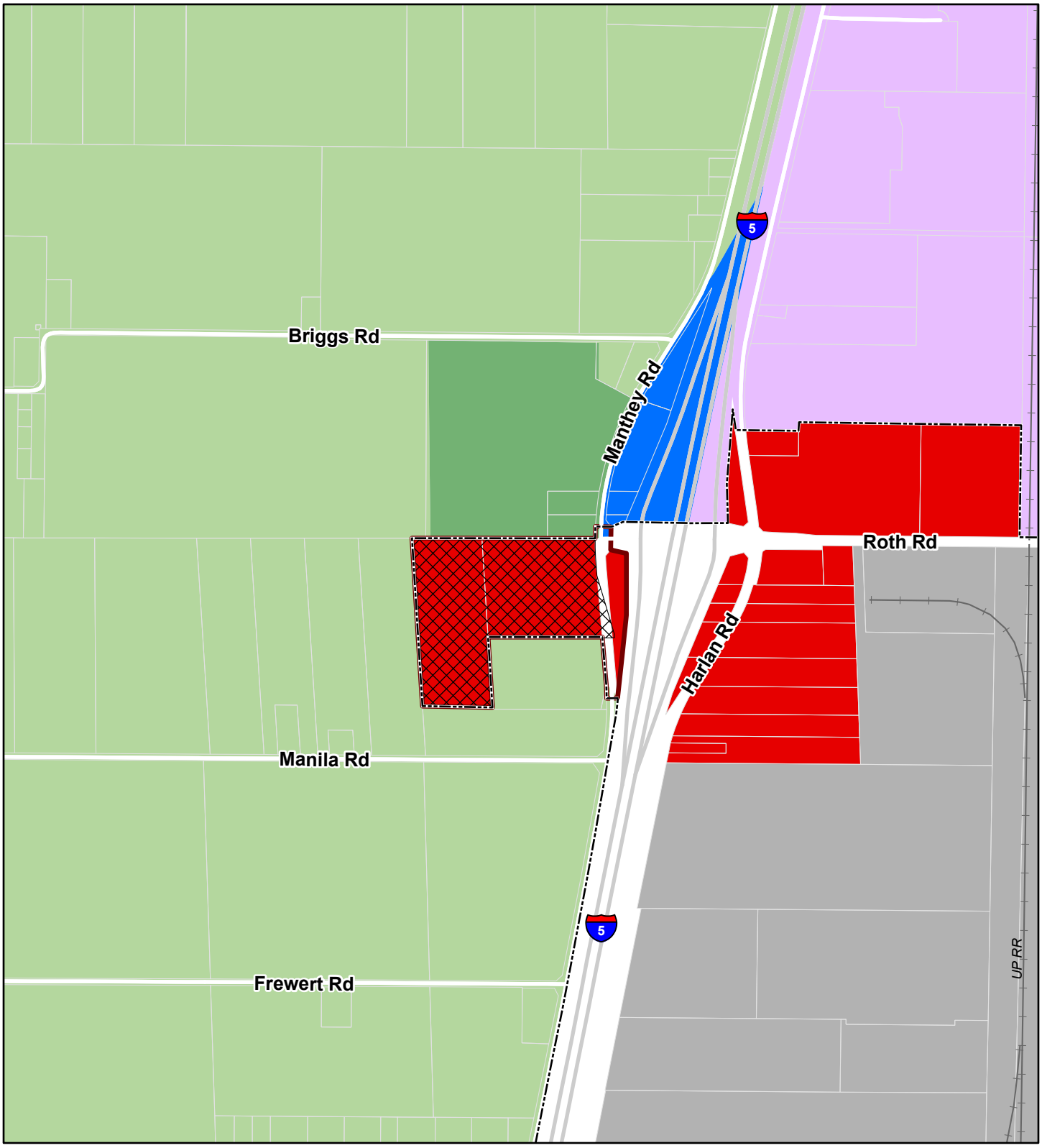

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits (Proposed)

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- I-G: General Industrial
- I-W: Warehouse Industrial

Sources: San Joaquin County GIS. Map date: December 14, 2022.

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 2.0-10. Proposed Zoning Designations

0 250 500
Feet

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This section provides an overview of the visual character, scenic resources, views, scenic highways, and sources of light and glare that are encountered in the Project site and the vicinity. This section concludes with an evaluation of the impacts and recommendations for mitigating impacts.

There were no comments received during the Notice of Preparation (NOP) comment period that specifically address aesthetics or visual resources. Full comments received are included in Appendix A.

3.1.1 ENVIRONMENTAL SETTING

REGIONAL SCENIC RESOURCES

Visual resources are generally classified into two categories: scenic views and scenic resources. Scenic views are elements of the broader viewshed such as mountain ranges, valleys, and ridgelines. They are usually mid-ground or background elements of a viewshed that can be seen from a range of viewpoints, often along a roadway or other corridor. Scenic resources are specific features of a viewing area (or viewshed) such as trees, rock outcroppings, and historic buildings. They are specific features that act as the focal point of a viewshed and are usually foreground elements.

Aesthetically significant features occur in a diverse array of environments within the region, ranging in character from urban centers to rural agricultural lands to natural water bodies. Features of the built environment that may also have visual significance include individual or groups of structures that are distinctive due to their aesthetic, historical, social, or cultural significance or characteristics. Examples of the visually significant built environment may include bridges or overpasses, architecturally appealing buildings or groups of buildings, landscaped freeways, and a location where a historic event occurred.

SCENIC HIGHWAYS AND CORRIDORS

Scenic highways and corridors make major contributions to the quality of life enjoyed by the residents of a region. The development of community pride, the enhancement of property values, and the protection of aesthetically-pleasing open spaces reflecting a preference for the local lifestyle are all ways in which scenic corridors are valuable to residents.

Scenic highways and corridors can also strengthen the tourist industry. For many visitors, highway corridors will provide their only experience of the region. Enhancement and protection of these corridors ensures that the tourist experience continues to be a positive one and, consequently, provides support for the tourist-related activities of the region's economy.

Scenic Highways

A scenic highway is generally defined by the California Department of Transportation (Caltrans) as a public highway that traverses an area of outstanding scenic quality, containing striking views, flora, geology, or other unique natural attributes. A highway may be designated scenic depending upon how much of the natural landscape can be seen by travelers, the scenic quality of the landscape, and the extent to which development intrudes upon the traveler's enjoyment of the view.

The status of a proposed state scenic highway changes from eligible to officially designated when the local governing body applies to Caltrans for scenic highway approval, adopts a Corridor Protection Program, and receives notification that the highway has been officially designated a Scenic Highway.

Only one highway section in San Joaquin County is listed as a Designated Scenic Highway by the Caltrans Scenic Highway Mapping System; the segment of Interstate 580 (I-580) from Interstate 5 (I-5) to State Route 205 (SR 205). This route traverses the edge of the Coast Range to the west and Central Valley to the east. The City of Lathrop is not visible from this roadway segment.

Scenic Corridors

A scenic corridor is the view from the road that may include a distant panorama and/or the immediate roadside area. A scenic corridor encompasses the outstanding natural features and landscapes that are considered scenic. It is the visual quality of the man-made or natural environments within a scenic corridor that are responsible for its scenic value. Commonly, the physical limits of a scenic corridor are broken down into foreground views (zero to one quarter mile) and distant views (over one quarter mile). In addition to distinct foreground and distant views, the visual quality of a scenic corridor is defined by special features, which include:

- Focal points - prominent natural or man-made features which immediately catch the eye.
- Transition areas - locations where the visual environment changes dramatically.
- Gateways - locations which mark the entrance to a community or geographic area.

The City of Lathrop General Plan does not designate any scenic corridors or viewsheds. As identified in the Open Space Element of the San Joaquin County General Plan, designated scenic routes in the county include I-5 from the Sacramento County line south to Stockton. The City of Lathrop is located south of Stockton, and Lathrop is not visible from this segment of I-5.

Visual Character and Other Scenic Resources Areas

The City of Lathrop's visual character is defined by its agricultural heritage and suburban development pattern. The City is a mixture of urbanized areas with commercial, residential, and industrial uses concentrated along the I-5 corridor and other major roadway corridors, including S. Harlan Road, Golden Valley Parkway, Lathrop Road, Roth Road and Louise Avenue. Residential neighborhoods, including parks and schools, occupy the remainder of the City's urbanized area east of I-5 with more recent residential patterns emerging west of I-5. Much of the undeveloped land within the Planning Area surrounding the developed portion of Lathrop is predominantly farmland, including alfalfa, orchards, row crops, and pasture, and rural residential uses.

Farmland and open space, interspersed with rural residential, agricultural, and industrial uses, generally border the City to the north, south, and west. To the west, the City is bordered by agricultural land and the San Joaquin River. Unincorporated San Joaquin County and the City of Stockton lie to the north, and the City of Manteca to the east.

Much of the undeveloped land within the City Limits, Sphere of Influence (SOI), Planning Area, and areas surrounding the urbanized portion of Lathrop is predominantly farmland, including alfalfa,

orchards, row crops, and pasture. Agricultural lands have become important visual resources that contribute to the community identity of Lathrop, and the Central Valley region. Agricultural lands provide for visual relief form urbanized areas and act as green space to nearby urban areas. While this land is disturbed from its natural condition, developed agricultural land can provide visual relief to a passerby/viewer from common manmade structures and visual obstructions found in a developed environment. Agricultural lands provide a sense of openness that is common in natural environments. While the project site is not identified as a scenic resource by the City of Lathrop General Plan, the Project site is located within the undeveloped open space of the City of Lathrop and is surrounded by agricultural land that is identified to be of significant scenic value by the City of Lathrop General Plan. Specifically, the City of Lathrop General Plan includes policy RR-2.3 which aims to protect the city's scenic resources, including scenic corridors along roads and views of the hillsides, waterways, and other significant natural features.

Water resources are important visual resources that draw tourists to the area for recreational opportunities, provide critical habitat, and provide for scenic areas within and surrounding urban areas. The most visually significant water body in the region is the San Joaquin River and the Old River located along the western and southern borders of the City and the Planning Area.

PROJECT AREA CONTEXT

The Project site is comprised of flat land with ruderal grasses, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf. Fencing surrounds the Project site.

The Project site is located within the northern boundary of the City of Lathrop SOI, within the unincorporated area of Jan Joaquin County. The proposed Project is located west of I-5 and is bordered by Manthey Road and the future extension of Roth Road. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east.

Figures 2.0-1 and 2.0-2 in Chapter 2.0, Project Description, illustrate the regional location and Project vicinity.

Light and Glare

There are minimal existing light sources in the Project site. There are some existing light sources in the vicinity of the proposed Project site There is existing nighttime lighting associated with the nearby agricultural and residential land uses, and streetlights and vehicle lights from nearby roadways including I-5.

3.1.2 REGULATORY SETTING

FEDERAL

There are no Federal regulations that apply to the proposed Project related to visual resources in the study area.

STATE

Caltrans California Scenic Highway Program

California's Scenic Highway Program was created by the Legislature in 1963 to preserve and protect scenic highway corridors from change, which would diminish the aesthetic value of lands adjacent to highways. The State laws governing the Scenic Highway Program are found in the Streets and Highways Code, Section 260 et seq. As previously described, there are no scenic highways in the City of Lathrop or with views of the Project site.

LOCAL

City of Lathrop Municipal Code

CHAPTER 17.92, LANDSCAPING AND SCREENING STANDARDS

Chapter 17.92, Landscaping and Screening Standards, of the City Zoning Ordinance contains several sections that regulate aesthetic or visual standards for development in the City. These include standards for landscaping of commercial and industrial developments; requirements for the contents of landscape plans; street, road, and parkway landscaping standards; requirements for a tree and shrub schedule; and planting and maintenance standards. Some of these standards would be applicable to the proposed Project, including the following:

- A landscape plan is required for all new residential, commercial, and industrial developments. These plans would include landscape materials, trees, shrubs, groundcover, turf, etc.
- Parking lots located on the proposed Project site shall include a landscape strip buffer installed continuously along the property line.
- All outside storage areas shall be screened so as not to be visible from adjacent properties and public rights-of-way. Screening shall be a minimum of six feet in height, and consist of a solid material. Outside storage is not permitted in front or street side yards, or in front of structures.
- Roof mounted mechanical equipment, tanks, ventilating fans and similar equipment shall be screened from the view of adjacent properties and public rights-of-way at grade. The required screens shall be architecturally compatible with the building or structure on which they are used. All streets, roads, and parkways within the City shall meet the following standards:
- In residential, commercial and industrial zones, trees shall be planted in accordance with the landscape and screening standards. In addition, the following requirements shall apply:

- Trees shall be planted between four feet and ten feet from a public right-of-way. Trees should also be a minimum of ten feet from any driveway.
- Trees planted on street frontages where noise attenuation is required shall be planted in a minimum five-foot landscape strip or in tree wells. Each tree shall be spaced no farther than 20 feet apart.

SECTION 17.100, SITE PLAN REVIEW

Section 17.100, Site Plan Review, of the City Zoning Ordinance contains sections that requires, during site plan review, proposed developed are reviewed in order to ensure building height; landscaping, setbacks, and lighting to be proposed to limit impact to adjoining properties.

SECTION 17.84.100, MASTER SIGNAGE PLANS

Section 17.84.100, Master Signage Plans, implements the City's Sign Design Program or master signage plans. The section provides a process for community development director review and decision related to requests for signs for multi-tenant projects. The intent is to allow the integration of a project's signs with the design of the structures to achieve a unified architectural design and to approve common sign regulations for multi-tenant projects.

City of Lathrop General Plan

POLICIES: RECREATION AND RESOURCES ELEMENT

- RR-2.1: Open Space Boundaries. Maintain existing open space lands within the city by carefully considering the impact of new development in established open space areas.
- RR-2.2: Regional Partners. Coordinate with regional partners to maintain and preserve open space areas under overlapping jurisdiction or within nearby communities to protect all local and regional opportunities for recreation available to Lathrop residents.
- RR-2.3 Scenic Resources. Protect the city's scenic resources, including scenic corridors along roads and views of the hillsides, waterways, and other significant natural features, to the extent practical.

POLICIES: LAND USE ELEMENT

- LU-5.1 Require new development to be compatible and complementary to existing development. Where appropriate and feasible, promote connections between neighborhoods and services and facilities.
- LU-5.3 Require that new residential development be designed to protect residents from potential conflicts with adjacent land uses, and other features including rail corridors, and high- volume roadways.
- LU-5.6 In considering land use change requests, consider factors such as compatibility with surrounding uses in terms of privacy, noise, and changes in traffic levels.
- LU-7.1 Encourage San Joaquin County to retain existing agricultural land use designations in areas outside of the Lathrop SOI.

- LU-7.2 Support the continuation of agricultural operations and activities on lands adjacent to the SOI and within the City's Area of Influence.
- LU-7.3 Allow and support the continuation of agricultural operations on lands within the City limits which are designed for urban uses until such time as urban development is proposed for the land.
- LU-7.4 Ensure that new urban uses which are proposed adjacent to lands designated for agricultural uses include adequate buffers to reduce potential land use conflicts and nuisance impacts to sensitive receptors

ACTIONS: LAND USE ELEMENT

- LU-5.a Through the development review process, screen development proposals for land use and transportation network compatibility with existing surrounding or abutting development or neighborhoods.
- LU-5.b Through the development review process, analyze land use compatibility and require adequate buffers and/or architectural enhancements to protect sensitive receptors from intrusion of development activities that may cause unwanted nuisances and health risks.
- LU-7.a Continue to implement the City's Agricultural Land Preservation Ordinance in order to protect existing agricultural operations from nuisance complaints, and to reduce impacts to future sensitive receptors proposed in close proximity to agricultural operations.
- LU-7.b Consider requiring buffering features between new urban uses and commercial agricultural uses, including but not limited to, landscaping, trails, gardens, solar arrays, and open spaces.

3.1.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on aesthetics if it will:

- Have a substantial adverse effect on a scenic vista;
- Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway;
- 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 the applicable zoning and other regulations governing scenic quality; or
- Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

IMPACTS AND MITIGATION MEASURES

Impact 3.1-1: Project implementation would not result in substantial adverse effects on scenic vistas. (Less than Significant)

As described in Chapter 2.0, Project Description, implementation of the Project would convert the site from its existing use as primarily vacant land to the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

Project components would include:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands (12 dispensers);
    - Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.
- Various parking areas during Phases I and II, including:
    - 148 truck/trailer spaces, 163 passenger vehicle spaces (including 128 regular spaces, 28 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase I; and
    - 98 truck/trailer spaces, 203 passenger vehicle spaces (including 176 regular space, 20 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase II;
- A 13,846-sf full service 4-bay truck and automobile repair shop;
- A 16,668-sf building that will include the following:
    - Office space;
    - Restroom facilities, 8 showers;
    - Laundry facility with 12 sets of washer/dryer;
    - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
    - Two quick service restaurants, one with a drive-thru option;
    - Seating area for patrons to dine;
- Two dog run areas enclosed with metal fences.

The Project site is not designated as a scenic vista by the City of Lathrop General Plan or the San Joaquin County General Plan. Nor does it contain any unique or distinguishing features that would qualify the site for designation as a scenic vista or scenic resource under an established program. However, not qualifying for designation under a scenic program does not take away from the fact that Project site contains aesthetically pleasing features such as agricultural land and other natural topography. While this land is disturbed from its natural condition, developed agricultural land can provide visual relief to a passerby/viewer from common manmade structures and visual obstructions found in a developed environment. Agricultural lands provide a sense of openness that is common in natural environments. Throughout the year agricultural operations would result in the land evolving from an environment that appears lush with vegetation (green crops) to an environment that appears barren (recently tilled). The City's General Plan EIR notes that views of

the agricultural lands have become important visual resources that contribute to the community identity of Lathrop, and the Central Valley region and are considered to be very important by members of the Lathrop community. Furthermore, these features are desirable to residents throughout the region, as well as visitors passing through regardless of whether they meet the criteria for scenic programs.

The only scenic resource in the vicinity of the Project is the San Joaquin River and its associated environs, which runs approximately two miles west of the proposed Project and is considered the most significant visual resource in the vicinity. However, the San Joaquin River is not visible from anywhere within the Project Site.

Furthermore, implementation of the proposed Project will include a high-rise pylon sign for quick site identification for patrons ranging from travelers to locals. The sign will be placed at the northeast corner of the site. The sign will house the TA logo, unleaded and diesel prices, and spaces to advertise the two quick service restaurants. There will also be an additional monument sign placed just north of the truck fuel islands for facility identification from the roadway.

All signage on the Project site will require a Sign Design Program review process, in accordance with Section 17.84.100, Master Signage Plans, that is separate from the rest of the proposed development. The master sign plan provides a process for community development director review and decision related to requests for signs for multi-tenant projects. The intent is to allow the integration of a project's signs with the design of the structures to develop a unified architectural statement and to approve common sign regulations for multi-tenant projects.

The proposed Project would include visual components that would assist in enhancing the appearance of the Specific Plan Area following site development. These improvements would include landscaping improvements along the eastern boundary line of the Project site and along Manthey and Roth Roads, as well as in internal parking areas. The southwestern corner and western boundary line of the Project site also includes bioretention areas and leaves a portion of the Project site as an undeveloped area with the landscaping of trees in order to provide visual relief from the development of the Project site. Furthermore, northern and eastern boundary lines are proposed to be screened from the respective roadways through the planting of medium shrubberies and proposed masonry walls. Internal vehicle access roads, including the proposed Manthey Road Re-Alignment access easement, would be bordered on either side by native and street trees. Internal utilities are also proposed to be shielded by 4 foot and 10 foot high chain link fences with coated black vinyl slats. Fuel storage tanks to the southwest are proposed to be screened by landscaping.

Further, the travel center is proposed to be articulated to provide visual relief from massing of solid walls and are proposed to be vary in heights. The proposed truck service center, with minimal building articulation, is proposed to be set back from either frontage road and rear of the travel center which is in prominent view of either adjoining road.

Impacts related to a change in visual character are largely subjective and very difficult to quantify. People have different reactions to the visual quality of a project or a project feature, and what is considered "attractive" to one viewer may be considered "unattractive" to other viewers. The

Project site currently consists primarily of agricultural lands, which are generally considered to provide visual relief from urban and suburban developments, and help to define the character of a region. The loss of agricultural lands can have an adverse cumulative impact on the overall visual character and quality of a region.

The proposed Project would result in the conversion of land in the Project site from a natural setting to a developed use. Nevertheless, the "attractive" aesthetics of the agricultural areas in the Project site would be visually changed in perpetuity. There are a variety of design elements, such as park areas and landscaping, in the Project site that will provide "attractive" elements to the human environment. However, as mentioned previously, there are no designated scenic vistas or resources that would be impacted. The Project site is not designated as a scenic vista by the City of Lathrop General Plan or the San Joaquin County General Plan, nor does it contain any unique or distinguishing features that would qualify the site for designation as a scenic vista or scenic resource under an established program. Therefore, while the proposed Project would permanently convert the agricultural and undeveloped uses to a developed use and would create a change in the visual characteristics of the site that is generally considered less "attractive" than the existing condition, the proposed Project site is not within or near a designated scenic vista. Implementation of the proposed Project would have a ***less than significant*** impact on a scenic vista, and no mitigation is required.

Impact 3.1-2: Project implementation would not substantially damage scenic resources within a State Scenic Highway. (Less than Significant)

As previously discussed, there are no designated State Scenic Highways in the vicinity of the Project site. The only Officially Designated Scenic Highway in San Joaquin County is I-580 from I-5 to SR 205 located approximately 16 miles southwest of the Project site. Views from this route are primarily agricultural with distant views of the Coast Range. The City of Lathrop and the Project site are not visible from this roadway segment.

There are no County designated scenic corridors, trails, or rivers located in the Project site. Additionally, there are no "eligible" highway segments in the Project vicinity that may be included in the State Scenic Highway system. While the Project would permanently convert the agricultural land to urbanized use, potential views of the Project site are limited due to the topography to potential views from the State Scenic Highway. Thus, implementation of the Project would not substantially damage scenic resources within a State Scenic Highway, as public views of the agricultural land from I-580 are limited; therefore, this is a ***less than significant*** impact.

Impact 3.1-3 Project implementation would not conflict with the applicable zoning and other regulations governing scenic quality. (Less than Significant)

The CEQA definition for an "Urbanized area" means a central city or a group of contiguous cities with a population of 50,000 or more, together with adjacent densely populated areas having a population density of at least 1,000 persons per square mile. In addition, to be considered an Urbanized area according to CEQA, projects must also be within the boundary of a map prepared by

the U.S. Bureau of the Census which designates the area as urbanized area. According to the U.S. Bureau of the Census, the Project site is mapped and designated as urbanized area. In addition, the Project site is located within the City of Lathrop, which has an estimated population of approximately 35,080 people; meaning the Project site is within an non-urbanized area and subjected to applicable zoning or other regulation governing scenic quality. Future development of the Project site would convert the Project site from its existing vacant state to a developed urban use.

The proposed Project would result in a land use consistent with the land use designation of the Project site. More specifically, the Project proposes the construction of freeway commercial services, consisting of a new travel center with multiples facilities, gasoline and diesel refueling stations, service station, and parking lots. These improvements would be aesthetically similar to service uses currently developed or anticipated within the immediate area and along I-5, such as the trucking sales and travel service centers across I-5 from the Project site. The proposed buildings and new impervious surface, in and of itself, would not substantially degrade the existing visual character or quality of the area and its surroundings, since uses would be similar to the urbanized uses near the proposed Project site. Therefore, while the Project would result in a loss of rural agricultural land, it would result in the development of commercial uses in an area of Lathrop currently planned for and developed with similarly scaled travel center amenities.

Overall, Project implementation would not conflict with the applicable zoning and other regulations governing scenic quality. This impact is ***less than significant***.

Impact 3.1-4: Project implementation would not create new source of substantial in light or glare. (Less than Significant)

Currently, there are no existing lighting sources within the Project site. Implementation of the proposed Project would introduce new sources of light and glare into the Project site. New sources of glare would occur primarily from the windshields of vehicles travelling to and from the Project site and from vehicles parked at the site. There is also the potential for reflective building materials and windows to result in increases in daytime glare. A detailed lighting plan has been prepared for the proposed Project.

LIGHTING

Development of the parking areas will include lighting systems to provide safety and security, which could result in an increase in lighting adjacent to the Project site. The proposed lighting primarily consists of 70 watt pole lights throughout the parking areas; and 131.3 watt LED canopy light and 37.05 watt wall sconce lights within the refueling are and buildings, respectively.

According to the lighting plan prepared for the proposed Project, street lighting, parking lighting, exterior lighting, and safety lighting will be installed in accordance with the City's standards. According to the photometric plan prepared for the Project, development of the parking areas will include lighting systems onsite to provide safety and security and could result in an increase in lighting adjacent to the Project site. This primarily consists of 70 watt pole lights throughout the

parking areas; and 131.3 watt LED canopy light and 37.05 watt wall sconce lights within the refueling area and buildings, respectively. As noted on the photometric plan, the eastern boundary lines of the Project site include 0.0 and 0.1 photometric values indicating that light produced on the Project site will not trespass or spill on to adjacent sites. Furthermore, the lighting plan prepared for the proposed Project indicates that all pole lighting will be directed downward to avoid trespass or spill unto adjacent sites. The southern and northern boundary lines, however, range from 0.2 to 1.5 photometric values indicating that the proposed Project could cause nominal or minimal light spillage onto adjacent properties.

Existing lighting near the proposed Project includes roadway lighting from I-5 and adjacent streetlight and facility lighting. Under current conditions, the proposed Project has nighttime lighting associated with the existing urbanized uses to the east, roadway lighting from I-5 (including from motorist vehicles), and miscellaneous lighting associated with various nearby streets. The proposed project would be subject to lighting and design guidelines that would reduce potential adverse impacts associated with light and glare to the extent feasible. The lighting guidelines require the use of cut-off type fixtures for on-site lighting to minimize visibility from adjacent areas and specifies that light fixtures will be the appropriate size and height given the activities for which they are designed, and proposed lighting would be arranged as to deflect light away from adjoining properties.

GLARE

Development in accordance with the proposed Project will disperse the amount of vehicles in multiple areas that could create new sources of glare within the Project site and directly adjacent to the Project site. These new sources of glare could be from materials used throughout the proposed parking areas, roadway surfaces, motor vehicles, and vehicle structures such as poles and signs. Outside the City limits, there are currently minimal sources of glare, and future development will introduce new lighting in an area with relatively low existing lighting. Due to the substantial of new parking lot square footage planned for the Project site, the Project could significantly result in a substantial increase in glare vehicles on nearby streets (i.e. Roth Road and Manthey Road). However, excessive reflective building materials would not be used on any buildings/structures/facilities associated with the proposed project. Furthermore, the landscaping on-site would include a variety of shade trees throughout the Project site and the perimeter of the site would be landscaped with a variety of grasses and trees per the preliminary landscape plan. The proposed landscaping would assist in shielding glare resulting from the proposed building materials and glass windows Therefore, the proposed project is not expected to introduce significant glare that would negatively affect nearby pedestrians or motorists.

CONCLUSION

The Lathrop General Plan EIR determined the impact of new sources of light and glare can be minimized by incorporating design features and operating requirements into new developments that limit light and glare. Additionally, improvements such as landscape and street lighting, are subject to Site Plan and Architectural Design Review. Design Review procedures in compliance with 17.100 and 17.104 of the Lathrop Municipal Code.

Light sources from the proposed parking lot may have a significant adverse impact on the surrounding areas, by introducing nuisance light into the area and decreasing the visibility of nighttime skies. Additionally, on-site light sources may create light spillover impacts on surrounding land uses in the absence of mitigation. However, the proposed Project will be required to comply with the all City of Lathrop Municipal Code Title 17.84, Signs, and would be required to incorporate design features to minimize the effects of light and glare which would ensure impacts associated with nighttime lighting and light spillage onto adjacent properties are ***less than significant***.

This section provides an overview of the agricultural crops in San Joaquin County and the City of Lathrop, agricultural capability of the soils in the Project site and existing site conditions. This section concludes with an evaluation of the impacts related to agricultural resources and recommendations for mitigating impacts as needed. Information in this section is derived primarily from the San Joaquin County Agricultural Report (San Joaquin County Agricultural Commissioner, 2022), the California Department of Conversation's "FMMP – Rural Land Mapping Project" (California Department of Conservation, 2022), and the Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS, 2023).

No comments were received during the public review period or scoping meeting for the Notice of Preparation regarding this topic.

As discussed in the Initial Study for the proposed Project (see Appendix A), the Project site is not under a Williamson Act contract. There are no forest resources or zoning for forest lands located on the Project site, or within the City of Lathrop. This CEQA topic is not relevant to the proposed project. Therefore, this CEQA topic is not relevant to the proposed Project and will not be addressed further in this EIR.

3.2.1 ENVIRONMENTAL SETTING

SAN JOAQUIN COUNTY AGRICULTURE

San Joaquin County occupies a central location in California's vast agricultural heartland, the San Joaquin Valley. The County's Agricultural Commissioner's most recent published Agricultural Report (published in 2021) contains the following information relating to agriculture in the County.

Agricultural Value

San Joaquin County has a total land area of 1,391 square miles. The total acreage of crop land in the county is approximately 772,762 acres. The gross value of agricultural production in San Joaquin County for 2021 was $3,193,234,000 which represents a 5.0 percent increase ($162,605,000) in value from 2020. Table 3.2-1 lists the nine primary commodities in San Joaquin County in 2020 and 2021.

TABLE 3.2-1: SUMMARY COMPARISON OF CROP VALUES

PRODUCT TYPE	*2020 VALUE IN DOLLARS*	*2021 VALUE IN DOLLARS*
Field Crops	$235,304,000	$236,790,000
Vegetable Crops	$260,363,000	$250,386,000
Fruit and Nut Crops	$1,603,784,000	$1,726,962,000
Nursery Products	$132,255,000	$138,155,000
Livestock and Poultry	$124,305,000	$128,628,000
Livestock and Poultry Products	$622,507,000	$654,239,000
Seed Crops	$4,090,000	$4,029,000
Apiary Products	$48,461,000	$54,045,000
Other Products (Biomass/Firewood)	$15,285,000	$15,725,000

SOURCE: SAN JOAQUIN COUNTY 2021 AGRICULTURAL REPORT (2021).

AGRICULTURAL CAPABILITY

The California Department of Conservation Farmland Mapping and Monitoring Program identifies lands that have agriculture value and maintains a statewide map of these lands called the Important Farmlands Inventory (IFI). IFI classifies land based upon the productive capabilities of the land, rather than the mere presence of ideal soil conditions.

The suitability of soils for agricultural use is just one factor for determining the productive capabilities of land. Suitability is determined based on many characteristics, including fertility, slope, texture, drainage, depth, and salt content. A variety of classification systems have been devised by the state to categorize soil capabilities. The two most widely used systems are the Capability Classification System and the Storie Index. The Capability Classification System classifies soils from Class I to Class VIII based on their ability to support agriculture with Class I being the highest quality soil. The Storie Index considers other factors such as slope and texture to arrive at a rating. The IFI is in part based upon both of these two classification systems.

Soil Capability Classification System

The Soil Capability Classification System takes into consideration soil limitations, the risk of damage when soils are used, and the way in which soils respond to treatment. Capability classes range from Class I soils, which have few limitations for agriculture, to Class VIII soils that are unsuitable for agriculture. Generally, as the rating of the capability classification increases, yields and profits are more difficult to obtain. A general description of soil classifications, as defined by the NRCS is provided in Table 3.2-2 below.

TABLE 3.2-2: SOIL CAPABILITY CLASSIFICATION

CLASS	*DEFINITION*
I	Soils have slight limitations that restrict their use.
II	Soils have moderate limitations that restrict choice plants or that require moderate conservation practices.
III	Soils have severe limitations that restrict the choice of plants or that require special conservation practices, or both.
IV	Soils have very severe limitations that restrict the choice of plants or that require very careful management, or both.
V	Soils are not likely to erode but have other limitations; impractical to remove that limits their use largely to pasture or range, woodland, or wildlife habitat.
VI	Soils have severe limitations that make them generally unsuited to cultivation and limit their use largely to pasture or range, woodland, or wildlife habitat.
VII	Soils have very severe limitations that make them unsuited to cultivation and that restrict their use largely to pasture or range, woodland, or wildlife habitat.
VIII	Soils and landforms have limitations that preclude their use for commercial plans and restrict their use to recreation, wildlife habitat, water supply, or aesthetic purposes.

SOURCE: USDA SOIL CONSERVATION SERVICE.

Storie Index Rating System

The Storie Index Rating system ranks soil characteristics according to their suitability for agriculture from Grade 1 soils (80 to 100 rating) which have few or no limitations for agricultural production, to

Grade 6 soils (less than 10) which are not suitable for agriculture. Under this system, soils deemed less than prime can function as prime soils when limitations such as poor drainage, slopes, or soil nutrient deficiencies are partially or entirely removed. The six grades, ranges in index rating, and definition of the grades, as defined by the NRCS, are provided below in Table 3.2-3.

TABLE 3.2-3: STORIE INDEX RATING SYSTEM

GRADE	*INDEX RATING*	*DEFINITION*
1	80 – 100	Few limitations that restrict their use for crops
2	60 – 80	Suitable for most crops, but have minor limitations that narrow the choice of crops and have a few special management needs
3	40 – 60	Suited to a few crops or to special crops and require special management
4	20 – 40	If used for crops, severely limited and require special management
5	10 – 20	Not suited for cultivated crops, but can be used for pasture and range
6	Less than 10	Soil and land types generally not suited to farming

SOURCE: USDA SOIL CONSERVATION SERVICE, SOIL SURVEY OF YOLO COUNTY, CALIFORNIA, 1972.

In addition to soil suitability, other factors for determining the agricultural value of land include whether soils are irrigated, the depth of soil, water-holding capacity, and physical and chemical characteristics. Areas considered to have the greatest agricultural potential are designated as Prime Farmland or Farmland of Statewide Importance.

Important Farmlands

The Farmland Mapping and Monitoring Program (FMMP) is a farmland classification system administered by the California Department of Conservation. Important farmland maps are based on the Land Inventory and Monitoring criteria, which classify a land's suitability for agricultural production based on both the physical and chemical characteristics of soils, and the actual land use. The system maps five categories of agricultural land, which include important farmlands (prime farmland, farmland of statewide importance, unique farmland, and farmland of local importance) and grazing land, as well as three categories of non-agricultural land, which include urban and built-up land, other land, and water area.

IMPORTANT FARMLANDS IN SAN JOAQUIN COUNTY

Data from the Department of Conservation indicates that approximately 1,858 acres of Prime Farmland in the County was developed for other uses between 2016 and 2018, resulting in an existing total of 381,934 acres of Prime Farmland (42 percent of agricultural land). The remaining agricultural land is comprised of Farmland of Statewide Importance (9 percent), Unique Farmland (9 percent), Farmland of Local Importance (7 percent), and Grazing Land (14 percent). The types and acreages of farmland in 2016 and 2018 are shown in Table 3.2-4.

TABLE 3.2-4: SAN JOAQUIN COUNTY FARMLANDS SUMMARY AND CHANGE BY LAND USE CATEGORY

LAND USE CATEGORY	2016-2018 ACREAGE CHANGES							
	TOTAL ACREAGE INVENTORIED				ACRES LOST	ACRES GAINED	TOTAL ACREAGE CHANGED	NET ACREAGE CHANGED
	2016		2018		(-)	(+)		
	Acres	Percent	Acres	Percent				
Prime Farmland	381,634	42%	381,984	42%	1,858	2,210	4,068	352
Farmland of Statewide Importance	82,618	9%	82,163	9%	921	466	1,387	-455
Unique Farmland	81,920	9%	85,694	9%	402	4,174	4,576	3,772
Farmland of Local Importance	68,903	8%	65,944	7%	5,507	2,547	8,054	-2,960
IMPORTANT FARMLAND SUBTOTAL	**615,075**	**67%**	**615,785**	**67%**	**8,688**	**9,397**	**18,085**	**709**
Grazing Land	129,760	14%	126,902	14%	2,893	37	2,930	-2,856
AGRICULTURAL LAND SUBTOTAL	**744,835**	**82%**	**742,687**	**81%**	**11,581**	**9,434**	**21,015**	**-2,147**
Urban and Built-up Land	95,329	10%	97,541	11%	121	2,332	2,453	2,211
Other Land	60,602	7%	60,987	7%	922	1,312	2,234	390
Water Area	11,836	1%	11,382	1%	680	226	906	-454
TOTAL AREA INVENTORIED	**912,602**	**100%**	**912,597**	**100%**	**13,304**	**13,304**	**26,608**	**0**

NOTE: THE 2016 AND 2018 DATA IS THE LATEST AVAILABLE DATA FROM THE STATE AT THE TIME THIS DOCUMENT WAS WRITTEN.
SOURCE: CA DEPARTMENT OF CONSERVATION, DIVISION OF LAND RESOURCE PROTECTION TABLE A-30, 2018.

EXISTING SITE CONDITIONS

The Project site is comprised of approximately 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road. The Project site is comprised of flat land with ruderal grasses, a few trees (located primarily along the northern and eastern boundary of the Project site), a foundation of a previously demolished abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet and the impervious area is approximately 2,500 square feet. Fencing surrounds the Project site.

The Project Site is located within the northern boundary of the City of Lathrop Sphere of Influence (SOI), within the unincorporated area of Jan Joaquin County. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and rural residential properties to the north. Figures 2.0-1 and 2.0-2 in Chapter 2.0, Project Description, illustrate the regional location and Project vicinity.

Important Farmland Designations

The State of California Department of Conservation FMMP and San Joaquin County GIS data were used to illustrate the farmland characteristics for the Project site. Farmland classifications within and in the vicinity of the Project Site are identified in Figure 3.2-1 and are shown in table 3.2-5 below.

TABLE 3.2-5: FARMLAND CLASSIFICATION

LAND CLASSIFICATION	*DEVELOPMENT AREA*	*ANNEXATION AREA*	*TOTAL*	*% OF TOTAL*
D - Urban/Built Up Land	0.26	2.63	2.89	13%
L - Farmland of Local Importance	19.31	0.14	19.45	87%
Grand Total	**19.57**	**2.77**	**22.34**	**100%**

SOURCE: CALIFORNIA DEPARTMENT OF CONSERVATION; NRCS CUSTOM WEB SOIL SURVEY, 2022.

PRIME FARMLAND

Prime Farmland is farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.

The Project site does not contain Prime Farmland. The area adjacent to the northern boundary of the Project site is designated Prime Farmland, as shown on Figure 3.2-1. Prime Farmlands are also located west, southwest, and south of the Project site.

FARMLAND OF STATEWIDE IMPORTANCE

Farmland of Statewide Importance is farmland with characteristics similar to those of prime farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.

The Project site does not contain Farmland of Statewide Importance. Farmland of Statewide Importance is located within the vicinity of the Project site to the west, northwest, southwest, and south, as shown on Figure 3.2-1.

FARMLAND OF LOCAL IMPORTANCE

Farmland of Local Importance is land of importance to the local agricultural economy, as determined by the County Board of Supervisors and a local advisory committee. The Project site consists of approximately 19.45 acres of Farmland of Local Importance, including 19.31 acres within the Development Area and 0.14 acres within the Project site but outside the Development Area. As shown on Figure 3.2-1, Farmland of Local Importance is located to the north, west, and south of the Project site.

URBAN AND BUILT-UP LAND

Urban and Built-Up Land includes lands occupied by structures with a building density of at least 1 unit to 1.5 acres, or approximately 6 structures to a 10-acre parcel. This land is used for residential, industrial, commercial, construction, institutional, public administration, railroad and other transportation yards, cemeteries, airports, golf courses, sanitary landfills, sewage treatment, water control structures, and other developed purposes. As shown on Figure 3.2-1, Urban and Built-up Land is adjacent to the Project site, to the east. The Project site consists of approximately 2.89 acres of Urban and Built-Up land which includes approximately 0.26 acres within the Development Area.

RURAL RESIDENTIAL

Rural Residential includes rural development which has a building density of one to five structures per ten acres. Rural Residential land are located north of the Project site.

Soils Characteristics

A Custom Soil Survey was completed for the Project site using the NRCS Web Soil Survey program. Table 3.2-6 identifies the soils found in the Project Site.

TABLE 3.2-6: PROJECT SITE SOILS

UNIT SYMBOL	*NAME*	*ACRES IN PROJECT SITE*	*PERCENT OF PROJECT SITE*	*CAPABILITY CLASSIFICATION*
196	Manteca fine sandy loam, 0 to 2 percent slopes	6.8	32.7%	III-IV
266	Veritas fine sandy loam, 0 to 2 percent slopes	14.9	67.3%	II-IV

** DEPICTS IRRIGATED VS NON IRRIGATED CAPABILITY RATING*

SOURCE: SAN JOAQUIN COUNTY GIS, NRCS SOILS DATABASE, 2022.

Manteca fine sandy loam. This moderately well drained, nearly level soil formed in alluvium. Permeability is moderate in this soil. Runoff is slow, and the hazard of water erosion is slight. The shrink-swell potential of this soil is low. Soils are used for irrigated crops such as alfalfa, almonds, barley, corn, grapes, melons, pasture and tomatoes. Vegetation is soft chess, wild oats, ripgut brome, turkey mullein and other annual grasses, forbs and scattered valley oaks.

Veritas fine sandy loam. This series consists of deep to duripan, moderately well drained soils. They formed in alluvium derived from mixed rock sources. Veritas soils are on low fan terraces. They have slow runoff and moderately rapid permeability. Common uses for this series include irrigated cropland. Alfalfa, barley and corn are the principal crops. Vegetation is annual grasses, forbs and scattered valley oaks.

3.2.2 REGULATORY SETTING

FEDERAL

Farmland Protection Policy Act

The Farmland Protection Policy Act (FPPA) is intended to minimize the extent to which federal programs contribute to the unnecessary and irreversible conversion of farmland to nonagricultural uses. It ensures that, to the extent practicable, federal programs are compatible with state and local units of government as well as private programs and policies to protect farmland. Projects are subject to FPPA requirements if they may irreversibly convert farmland (directly or indirectly) to nonagricultural use and are completed by a federal agency or with assistance from a federal agency. For the purpose of the FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to FPPA requirements does not have to be currently used for crop production. In fact, the land can be forest land, pastureland, cropland, or other land but does not include water bodies or land developed for urban land uses (i.e., residential, commercial, or industrial uses).

The NRCS administers the Farmland Protection Program. NRCS uses a land evaluation and site assessment (LESA) system to establish a farmland conversion impact rating score on proposed sites of federally funded and assisted projects. This score is used as an indicator for the project sponsor to consider alternative sites if the potential adverse impacts on the farmland exceed the recommended allowable level. The assessment is completed on form AD-1006, Farmland Conversion Impact Rating. The sponsoring agency completes the site assessment portion of the AD-1006, which assesses non-soil related criteria such as the potential for impact on the local agricultural economy if the land is converted to non-farm use and compatibility with existing agricultural use.

The proposed Project is not anticipated to be federally funded; therefore, the Project will not be subject to the FPPA.

Farm and Ranch Lands Protection Program

The NRCS administers the Farm and Ranch Lands Protection Program (FRPP), a voluntary program aimed at keeping productive farmland in agricultural uses. Under the FRPP, the NRCS provides matching funds to state, local, or tribal government entities and nonprofit organizations with existing farmland protection programs to purchase conservation easements. According to the 1996 Farm Bill, the goal of the program is to protect between 170,000 and 340,000 acres of farmland per year. Participating landowners agree not to convert the land to non-agricultural use and retain all rights to use the property for agriculture. A conservation plan must be developed for all lands enrolled based upon the standards contained in the NRCS Field Office Technical Guide. A minimum of 30 years is required for conservation easements and priority is given to applications with perpetual easements. The NRCS provides up to 50 percent of the fair market value of the easement being conserved (NRCS, 2004). To qualify for a conservation easement, farm or ranch land must meet several criteria. The land must be:

- Prime, Unique, or other productive soil, as defined by NRCS based on factors such as water moisture regimes, available water capacity, developed irrigation water supply, soil temperature range, acid-alkali balance, water table, soil sodium content, potential for flooding, erodibility, permeability rate, rock fragment content, and soil rooting depth;
- Included in a pending offer to be managed by a nonprofit organization, state, tribal, or local farmland protection program;
- Privately owned;
- Placed under a conservation plan;
- Large enough to sustain agricultural production;
- Accessible to markets for the crop that the land produces; and
- Surrounded by parcels of land that can support long-term agricultural production

STATE

California Department of Conservation

The DOC administers and supports a number of programs, including the Williamson Act, the California Farmland Conservancy Program (CFCP), the Williamson Act Easement Exchange Program (WAEEP), and the FMMP. These programs are designed to preserve agricultural land and provide data on conversion of agricultural land to urban use. The DOC has authority for the approval of agreements entered into under the WAEEP. Key DOC tools available for land conservation planning are conservation grants, tax incentives to keep land in agriculture or open space, and farmland mapping and monitoring.

Farmland Security Zones

In 1998, the state legislature established the Farmland Security Zone (FSZ) program. FSZs are similar to Williamson Act contracts, in that the intention is to protect farmland from conversion. The main difference however, is that the FSZ must be designated as Prime Farmland, Farmland of Statewide Importance, Unique Farmland, or Farmland of Local Importance. The term of the contract is a minimum of 20 years. The property owners are offered an incentive of greater property tax reductions when compared to the Williamson Act contract tax incentives; the incentives were developed to encourage conservation of prime farmland through FSZs. The non-renewal and cancellation procedures are similar to those for Williamson Act contracts.

The Project site and the adjacent parcels are not within the FSZ program.

Delta Reform Act

The California Legislature passed the Johnston-Baker-Andal-Boatwright Delta Protection Act of 1992 (Delta Protection Act) on September 23, 1992 and it was updated in 2009 and renamed the Delta Reform Act. The Act provided the means to prepare the Land Use and Resource Management Plan (2010) for the Primary Zone of the Delta. The Management Plan includes policies and recommendations with the overall goal to "protect, maintain, and where possible, enhance and restore the overall quality of the Delta environment, including but not limited to agriculture, wildlife

habitat, and recreational activities." The following are the applicable policies with relation to agriculture:

Policy P-3. New non-agriculturally oriented residential, recreational, commercial, habitat, restoration or industrial development shall ensure that appropriate buffer areas are provided by those proposing new development to prevent conflicts between any proposed use and existing adjacent agricultural parcels. Buffers shall adequately protect the integrity of land for existing and future agricultural uses and shall not include uses that conflict with agricultural operations on adjacent agricultural lands. Appropriate buffer setbacks shall be determined in consultation with local Agricultural Commissioners, and shall be based on applicable general plan policies and criteria included in Right-to-Farm Ordinances adopted by local jurisdictions.

California Government Code Section 560643

This section of the Government Codes defines "Prime agricultural land" as follows:

- Prime agricultural land means an area of land, whether a single parcel or contiguous parcels, that has not been developed for a use other than an agricultural use and that meets any of the following qualifications:
    - Land that qualifies, if irrigated, for rating as class I or class II in the USDA Natural Resources Conservation Service land use capability classification, whether or not land is actually irrigated, provided that irrigation is feasible.
    - Land that qualifies for rating 80 through 100 Storie Index Rating.
    - Land that supports livestock used for the production of food and fiber and that has an annual carrying capacity equivalent to at least one animal unit per acre as defined by the United States Department of Agriculture in the National Range and Pasture Handbook, Revision 1, December 2003.
    - Land planted with fruit or nut-bearing trees, vines, bushes, or crops that have a nonbearing period of less than five years and that will return during the commercial bearing period on an annual basis from the production of unprocessed agricultural plant production not less than four hundred dollars ($400) per acre.
    - Land that has returned from the production of unprocessed agricultural plant products an annual gross value of not less than four hundred dollars ($400) per acre for three of the previous five calendar years.

LOCAL

City of Lathrop General Plan

POLICIES: LAND USE ELEMENT

- LU-7.1: Encourage San Joaquin County to retain existing agricultural land use designations in areas outside of the Lathrop SOI.
- LU-7.2: Support the continuation of agricultural operations and activities on lands adjacent to the SOI and within the City's Area of Influence.

- LU-7.3: Allow and support the continuation of agricultural operations on lands within the City limits which are designed for urban uses until such time as urban development is proposed for the land.
- LU-7.4: Ensure that new urban uses which are proposed adjacent to lands designated for agricultural uses include adequate buffers to reduce potential land use conflicts and nuisance impacts to sensitive receptors.

City of Lathrop Municipal Code - Agricultural Land Preservation (Title 15.48.040)

The City of Lathrop Right-to-Farm Ordinance (15.48.030) of the City's Agricultural Land Disclosure Statement (15.48.040) was adopted in 1991 to conserve and protect agricultural land in the City and protect agricultural landowners from nuisance complaints related to cultivation, irrigation, spraying, fertilizing, and other activities related to normal agricultural operations. Per Section 15.48.040, a disclosure statement is required whenever adjacent property is sold or building permit application is submitted, notifying the prospective buyer/applicant of adjacent agricultural land and possible discomforts and nuisance factors related to agricultural operations. The focus of the ordinance is to reduce the loss of agricultural resources in the City by clarifying the circumstances under which agricultural operations may be considered a nuisance.

Central Valley Farmland Trust

The Central Valley Farmland Trust is a private, non-profit, regional land trust working in Sacramento, San Joaquin, Stanislaus and Merced Counties of California. The organization works to preserve farmland through the purchase of agricultural conservation easements from willing landowners.

City of Lathrop Agricultural Mitigation

The City of Lathrop adopted an agricultural mitigation program in 2005, as a result of the settlement of a water transfer lawsuit against the cities of Lathrop, Manteca, and Tracy by the Sierra Club. The mitigation program adopted by the City of Lathrop required that future development pay $2,000/acre for agricultural mitigation. Half of the mitigation ($1,000/acre) will be paid to the Central Valley Farmland Trust (CVFT). The other $1,000/acre will be collected by the City of Lathrop and may be passed to the CVFT or other trust, or may be retained by the City of Lathrop to be applied to local easements or other agricultural mitigation. This fee structure included an automatic escalator, so the fee as of 2023 is currently $3,352 per acre.

Chapter 3.40 of the City's Municipal Code implements the agricultural mitigation program. This includes mitigating the loss of productive agricultural lands converted for urban uses within the city by permanently protecting agricultural lands planned for agricultural use and by working with farmers who voluntarily wish to place conservation easements on their land with fair compensation for such easements.

These Agricultural Mitigation amounts discussed above are in addition to fees imposed as part of the San Joaquin Multi-Species Conservation Plan (SJMSCP). The adopted SJMSCP includes a commitment to spend 75% of the dollars collected on lands which would benefit agricultural

resources. The SJMSCP fees are considered a separate Mitigation Fee obligation from the Agricultural Mitigation fees, but in many cases serve the same purpose. The SJMSCP is a voluntary program in lieu of conducting independent biological assessments. Most development proponents chose to comply with the SJMSCP.

Local Agency Formation Commission Boundary Controls

The San Joaquin Local Agency Formation Commission (LAFCO) is responsible for coordinating orderly amendments to local jurisdictional boundaries, including annexations. Annexation to the City of Lathrop would be subject to LAFCO approval, and LAFCO's decision is governed by state law (Gov't Code § 56001 et seq.) and the local LAFCO Policies and Procedures. State law requires LAFCOs to consider agricultural land and open space preservation in all decisions related to expansion of urban development. LAFCO's definition of Prime agricultural land refers to California Government Code Section 56064.3, which is described above under the State Regulatory Setting.

San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP)

The SJMSCP provides comprehensive measures for compensation and avoidance of impacts on various biological resources, which includes ancillary benefits to agricultural resources. For instance, many of the habitat easements that are purchased or facilitated by the SJMSCP program are targeted for the protection of Swainson's hawk or other sensitive species habitat that are dependent on agricultural lands. The biological mitigation for these species through the SJMSCP includes the purchase of certain conservation easements for habitat purposes; however, the conservation easements are placed over agricultural land, such as alfalfa and row crops (not vines or orchards). As such, SJMSCP fees paid to San Joaquin Council of Governments (SJCOG) as administrator of the SJMSCP will result in the preservation of agricultural lands in perpetuity.

3.2.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on agricultural resources if it will:

- 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;
- 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.

IMPACTS AND MITIGATION MEASURES

Impact 3.2-1: The proposed Project would not 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 uses. (Less than Significant)

Development of the proposed Project would result in the permanent conversion of approximately 19.45 of Farmland of Local Importance to nonagricultural use. However, Prime Farmland, Unique Farmland, and Farmland of Statewide Importance would not be converted as none is found on-site.

As previously discussed, Chapter 3.40 of the Municipal Code establishes the City's Agricultural Mitigation Fee Program, which authorizes the collection of development impact fees to offset costs associated with the loss of productive agricultural lands converted for urban uses within the City. The City's agricultural mitigation fee program requires that future development pay the agricultural mitigation fee, currently $3,352 per acre[1], to mitigate the conversion of agricultural land to urban use. The City will use these funds to purchase conservation easements or deed restrictions on agricultural land to ensure that the land remains in agricultural use in perpetuity.

In addition to the City's agricultural mitigation fee program, the SJMSCP requires development to pay fees on a per-acre basis for impacts to agricultural lands that function as habitat for biological resources. As discussed in Section 3.4, Biological Resources, the Project site functions as biological habitat because it has been previously and actively used for agricultural use. Agricultural fields commonly have irrigation canals, ditches, and stock ponds that serve as a water source or drainage for the fields and habitat for a limited variety of plants and animals. SJCOG will then use these funds to purchase the conservation easements on agricultural and habitat lands in the Project vicinity. The compensation results in the purchase of conservation easements that are placed over agricultural land. As such, the Project fees paid to SJCOG as administrator of the SJMSCP will result in the preservation of agricultural lands in perpetuity.

The purchase of conservation easements and/or deed restrictions through the City agricultural mitigation fee program and the SJMSCP allows the landowners to retain ownership of the land and continue agricultural operations, and preserves such lands in perpetuity.

As defined in Section 3.40.050 of the Agricultural Mitigation Fee section of the City of Lathrop Municipal Code, "Agricultural land or farmland" is defined as those land areas upon which agricultural activities, uses, operations or facilities exist that contain Capability Class I, II, III or IV soils as defined by the United States Department of Agriculture Natural Resource Conservation Service. As noted in Table 3.2-5, the Project site includes Class II-IV and III-IV soils. The site contains fallow agricultural land, is surrounded by agricultural uses to the north, west, and south, and is designated by the County for agricultural land uses. Therefore, the site is considered agricultural land or farmland according to the Agricultural Mitigation Fee section of the City of Lathrop Municipal Code.

The Project site is currently designated Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map. The City of Lathrop General Plan EIR identifies that the location or nature of the General Plan could result in the conversion of farmland to non-agricultural use and identified

[1] City of Lathrop. *Municipal Service Review and Sphere of Influence Amendment.* Pg 2-13. July 2022.

General Plan policies to support the continuation of working farmland and agricultural land to maintain agricultural use adjacent to non-agricultural uses. The EIR concluded that implementation of the General Plan would result in a less than significant impact as the General Plan includes policies which would reduce the impact of development resulting in the conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide Importance. This includes policies which encourage agricultural land uses in areas outside of Lathrop while supporting the continuation of agricultural operations and activities on lands adjacent to the SOI and with the City's Area of Interest, and within the city. The EIR noted that adherence to the policies would ensure that projects include adequate measures to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses, while supporting ongoing agricultural operations in areas within and surrounding the city.

The City of Lathrop General Plan EIR identifies that the location or nature of the General Plan could result in the conversion of farmland to non-agricultural use and identified General Plan policies to support the continuation of working farmland and agricultural land to maintain agricultural use adjacent to non-agricultural uses. However, the EIR concluded that implementation of the General Plan would result in a less than significant impact as the General Plan includes policies which would reduce the impact of development resulting in the conversion of existing farmland. This includes policies which encourage agricultural land uses in areas outside of Lathrop while supporting the continuation of agricultural operations and activities on lands adjacent to the SOI and with the City's Area of Influence, and within the city.

While the proposed Project will result in the loss of Farmland of Local Importance, implementation of the proposed Project will not result in the conversion of convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Furthermore, the proposed Project would contribute fees toward the purchase of conservation easements on agricultural lands through the City's agricultural mitigation fee program and the SJMSCP which would result in the conservation of farmland. As such, impacts resulting from the Project would be ***less than significant*** relative to this topic.

Impact 3.2-2: The proposed Project would not involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural. (Less than Significant)

Neighboring agricultural land, including Prime Farmland and Farmland of Local Importance, are located to the north, south, and west of the Project site, as shown on Figure 3.2-1. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. Existing agricultural operations, including orchard land and irrigated row crops across Roth Road to the northwest, that are located adjacent to the Project site may be adversely impacted by the increased human and vehicular presence in the Project site.

Commercial uses would be developed in the Project site with implementation of the proposed Project. Commercial uses would involve regional travel serving uses that include fueling facilities,

traveler amenities, vehicle servicing, and parking facilities for passing motorists and commercial truck operators. The commercial uses proposed by the project would significantly increase vehicular traffic and service operations next to adjacent agricultural uses. However, the development of commercial uses within the Project site, such as the development of buildings and signage, would not would interfere with existing agricultural operations, such that would prevent aerial spraying, as the structures proposed onsite would not be developed at heights that would interfere with such operations.

The City of Lathrop Right-to-Farm Ordinance (15.48.030) of the City's Agricultural Land Disclosure Statement (15.48.040) reduces the potential for conflict between existing agricultural lands and adjacent uses. The notification procedures in the ordinance serves to inform landowners and developers of non-agricultural uses of what the expectations are in the area with regard to continued agricultural activities. This notification process is designed to reduce complaints and legal conflicts between existing agricultural operations and future development. The proposed Project would be subject to the City of Lathrop Right-to-Farm Ordinance (15.48.030) of the City's Agricultural Land Disclosure Statement (15.48.040).

The City of Lathrop General Plan EIR (2022) identifies that the location or nature of the General Plan could result in the conversion of farmland to non-agricultural use and identified General Plan policies to support the continuation of working farmland and agricultural land to maintain agricultural use adjacent to non-agricultural uses. However, the EIR concluded that implementation of the General Plan would result in a less than significant impact as the General Plan includes policies which would reduce the impact of development resulting in the conversion of existing farmland. This includes policies which encourage agricultural land uses in areas outside of Lathrop while supporting the continuation of agricultural operations and activities on lands adjacent to the SOI and with the City's Area of Influence, and within the city. The EIR noted that adherence to the policies would ensure that projects include adequate measures to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses, while supporting ongoing agricultural operations in areas within and surrounding the city.

General Plan Policy LU-7.4 requires that new urban uses which are proposed adjacent to lands designated for agricultural uses include adequate buffers to reduce potential land use conflicts and nuisance impacts to sensitive receptors. These buffer zones are required to be of sufficient size to protect the agriculture operations from the impacts of incompatible development and be established based on the proposed land use, site conditions and anticipated agricultural practices.

As shown in Figure 2.0-5 in Chapter 2.0, the land adjacent to the west and south is designated Agriculture/General by the County General Plan Land Use Map. Pursuant to General Plan Policy LU-7.4, buffers between the Project site and the agriculturally designated lands to the west of the western boundary and the south of the southwestern portion of the site should be provided to reduce potential land use conflicts and nuisance impacts to sensitive receptors.

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed as an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-

of-way (ROW) dedication for these improvements. For the proposed Project in Phase I, landscaping provides a buffer between the southern and western portions of the Project site and existing agricultural operations located to the south and west. The retention pond along the western boundary measures approximately 60 ft. from the western boundary line and the retention pond to the southwestern corner measures approximately 266 ft. from the western boundary line and approximately 228 ft. from the southern boundary line. Together, the retention ponds provide sufficient buffer to protect the agriculture operations from the impacts of the development of the Project site, as buffers typically consistent of a minimum of 5 to 10 ft., according to Chapter 17.92 Landscaping and Screening requirements of the City of Lathrop Municipal Code.

Phase II of the Project provides additional landscaping buffers to the north from the Project site, along the northern project boundary. This includes a 10 ft. width landscaping strip along the northern Project boundary in order to provide sufficient buffering from agricultural operations. Phase II of the Project also includes the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road; improvement of Roth Road to the north of the Project site; and improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road. As Phase II of the proposed Project would be focused primarily to the east of the Project Site where there are no agricultural uses, agricultural operations would not be adversely impacted by Phase II of the proposed Project.

Adherence to the policies of the General Plan, stated above, would ensure that the proposed project include adequate measures to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses, while supporting ongoing agricultural operations in areas within and surrounding the proposed Project. Therefore, the proposed Project would not result in conflicts with adjacent agricultural lands would result in a ***less than significant*** impact regarding this topic.

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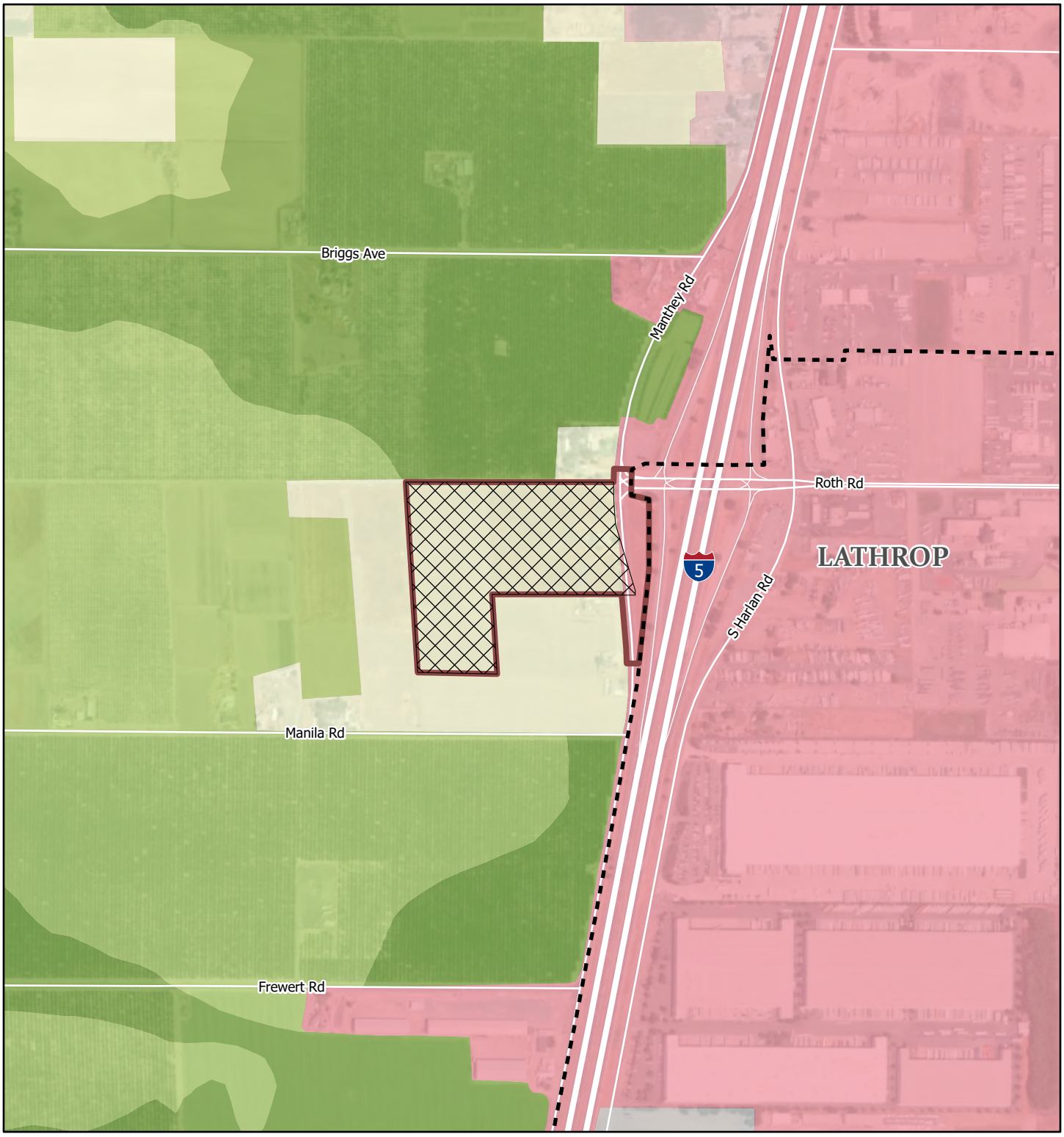

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits

Farmland Classification

- Prime Farmland
- Farmland of Statewide Importance
- Farmland of Local Importance
- Vacant or Disturbed Land
- Rural Residential Land
- Urban and Built-Up Land

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.2-1. Important Farmlands

0 200 400 800
Feet

Sources: San Joaquin County GIS; USGS Roads Database; California Department of Conservation Farmland Mapping and Monitoring Program, San Joaquin County 2018. Map date: December 13, 2022.

De Novo Planning Group
A Land Use Planning, Design, and Environmental Firm

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This section describes the regional air quality, current attainment status of the air basin, local sensitive receptors, emission sources, and impacts that are likely to result from Project implementation. The analysis contained in this section is intended to be at a project-level, and covers impacts associated with the conversion of the entire site to urban uses. Following this discussion is an assessment of consistency of the proposed Project with applicable policies and local plans. The Greenhouse Gases, Climate Change, and Energy analysis is located in a separate section of this document (*see* Chapter 3.7 – Greenhouse Gases, Climate Change and Energy). This air quality section is based in part on the following technical studies: *Air Quality and Land Use Handbook: A Community Health Perspective* (California Air Resources Board [CARB], 2007), *Guide for Assessing and Mitigation Air Quality Impacts* (San Joaquin Valley Air Pollution Control District [SJAVPCD], 2002), *Guidance for Assessing and Mitigating Air Quality Impacts - 2015* (SJAVPCD, 2015), and CalEEMod *(*v.2022.1).

One comment was received during the public review period or scoping meeting for the Notice of Preparation regarding this topic from the San Joaquin Valley Air Pollution Control District (October 29, 2021). The commenter pointed out that the SJVAPCD has the *Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI)* (March 19, 2015) as a technical guidance for the review of air quality impacts from proposed projects within the boundaries of the District. This comment is addressed within this section. The full comment is included in Appendix A.

3.3.1 ENVIRONMENTAL SETTING

SAN JOAQUIN VALLEY AIR BASIN

The City of Lathrop (City) is in the northern portion of the San Joaquin Valley Air Basin (SJVAB). The SJVAB consists of eight counties: Fresno, Kern (western and central), Kings, Tulare, Madera, Merced, San Joaquin, and Stanislaus. Air pollution from significant activities in the SJVAB includes a variety of industrial-based sources as well as on- and off-road mobile sources. These sources, coupled with geographical and meteorological conditions unique to the area, stimulate the formation of unhealthy air.

The SJVAB is approximately 250 miles long and an average of 35 miles wide. It is bordered by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south. There is a slight downward elevation gradient from Bakersfield in the southeast end (elevation 408 feet) to sea level at the northwest end where the valley opens to the San Francisco Bay at the Carquinez Straits. At its northern end is the Sacramento Valley, which comprises the northern half of California's Central Valley. The bowl-shaped topography inhibits movement of pollutants out of the valley (San Joaquin Valley Air Pollution Control District (SJVAPCD), 2015).

Climate

The SJVAB is in a Mediterranean climate zone and is influenced by a subtropical high-pressure cell most of the year. Mediterranean climates are characterized by sparse rainfall, which occurs mainly in winter. Summers are hot and dry. Summertime maximum temperatures often exceed 100°F in the valley.

The subtropical high-pressure cell is strongest during spring, summer, and fall and produces subsiding air, which can result in temperature inversions in the valley. A temperature inversion can act like a lid, inhibiting vertical mixing of the air mass at the surface. Any emissions of pollutants can be trapped below the inversion. Most of the surrounding mountains are above the normal height of summer inversions (1,500 to 3,000 feet).

Winter-time high pressure events can often last many weeks, with surface temperatures often lowering into the 30°F. During these events, fog can be present and inversions are extremely strong. These wintertime inversions can inhibit vertical mixing of pollutants to a few hundred feet (SJVAPCD, 2015).

Wind Patterns

Wind speed and direction play an important role in dispersion and transport of air pollutants. Wind at the surface and aloft can disperse pollution by mixing and transporting it to other locations.

Especially in summer, winds in the San Joaquin Valley most frequently blow from the northwest. The region's topographic features restrict air movement and channel the air mass towards the southeastern end of the valley. Marine air can flow into the basin from the San Joaquin River Delta and over Altamont Pass and Pacheco Pass, where it can flow along the axis of the valley, over the Tehachapi pass, into the Southeast Desert Air Basin. This wind pattern contributes to transporting pollutants from the Sacramento Valley and the Bay Area into the SJVAB. Approximately 27 percent of the total emissions in the northern portion, 11 percent of total emissions in the central region, and 7 percent of total emission in the south valley of the SJVAB are attributed to air pollution transported from these two areas.[1] The Coastal Range is a barrier to air movement to the west and the high Sierra Nevada range is a significant barrier to the east (the highest peaks in the southern Sierra Nevada reach almost halfway through the Earth's atmosphere). Many days in the winter are marked by stagnation events where winds are very weak. Transport of pollutants during winter can be very limited. A secondary but significant summer wind pattern is from the southeast and can be associated with nighttime drainage winds, prefrontal conditions, and summer monsoons.

Two significant diurnal wind cycles that occur frequently in the valley are the sea breeze and mountain-valley upslope and drainage flows. The sea breeze can accentuate the northwest wind flow, especially on summer afternoons. Nighttime drainage flows can accentuate the southeast movement of air down the valley. In the mountains during periods of weak synoptic scale winds, winds tend to be upslope during the day and downslope at night. Nighttime and drainage flows are especially pronounced during the winter when flow from the easterly direction is enhanced by nighttime cooling in the Sierra Nevada. Eddies can form in the valley wind flow and can recirculate a polluted air mass for an extended period.

[1] SJVAPCD. Frequently Asked Questions, http://www.valleyair.org/general_info/frequently_asked_questions.htm#What%20is%20being%20done%20to%20improve%20ai r%20quality%20in%20the%20San%20Joaquin%20Valley, accessed September 11, 2023.

Temperature

Solar radiation and temperature are particularly important in the chemistry of ozone formation. The SJVAB averages over 260 sunny days per year. Photochemical air pollution (primarily ozone) is produced by the atmospheric reaction of organic substances (such as volatile organic compounds) and nitrogen dioxide under the influence of sunlight. Ozone concentrations are very dependent on the amount of solar radiation, especially during late spring, summer, and early fall. Ozone levels typically peak in the afternoon. After the sun goes down, the chemical reaction between nitrous oxide and ozone begins to dominate. This reaction tends to scavenge and remove the ozone in the metropolitan areas through the early morning hours, resulting in the lowest ozone levels, possibly reaching zero at sunrise in areas with high nitrogen oxides emissions. At sunrise, nitrogen oxides tend to peak, partly due to low levels of ozone at this time and also due to the morning commuter vehicle emissions of nitrogen oxides.

Generally, the higher the temperature, the more ozone formed, since reaction rates increase with temperature. However, extremely hot temperatures can "lift" or "break" the inversion layer. Typically, if the inversion layer does not lift to allow the buildup of contaminants to be dispersed, the ozone levels will peak in the late afternoon. If the inversion layer breaks and the resultant afternoon winds occur, the ozone will peak in the early afternoon and decrease in the late afternoon as the contaminants are dispersed or transported out of the SJVAB.

Ozone levels are low during winter periods when there is much less sunlight to drive the photochemical reaction (SJVAPCD, 2015).

Precipitation, Humidity, and Fog

Precipitation and fog may reduce or limit some pollutant concentrations. Ozone needs sunlight for its formation, and clouds and fog can block the required solar radiation. Wet fogs can cleanse the air during winter as moisture collects on particles and deposits them on the ground. Atmospheric moisture can also increase pollution levels. In fogs with less water content, the moisture acts to form secondary ammonium nitrate particulate matter. The winds and unstable air conditions experienced during the passage of winter storms result in periods of low pollutant concentrations and excellent visibility. Between winter storms, high pressure and light winds allow cold moist air to pool on the SJVAB floor. This creates strong low-level temperature inversions and very stable air conditions, which can lead to tule fog. Wintertime conditions favorable to fog formation are also conditions favorable to high concentrations of particulate matter (PM), including PM that have a diameter of less than 2.5 micrometers ($PM_{2.5}$) and 10 micrometers PM_{10} (SJVAPCD, 2015).

Inversions

The vertical dispersion of air pollutants in the San Joaquin Valley can be limited by persistent temperature inversions. Air temperature in the lowest layer of the atmosphere typically decreases with altitude. A reversal of this atmospheric state, where the air temperature increases with height, is termed an inversion. The height of the base of the inversion is known as the "mixing height." This is the level to which pollutants can mix vertically. Mixing of air is minimized above and below the

inversion base. The inversion base represents an abrupt density change where little air movement occurs.

Inversion layers are significant in determining pollutant concentrations. Concentration levels can be related to the amount of mixing space below the inversion. Temperature inversions that occur on the summer days are usually 2,000 to 2,500 feet above the valley floor. In winter months, overnight inversions occur 500 to 1,500 feet above the valley floor (SJVAPCD, 2015).

CRITERIA POLLUTANTS

All criteria pollutants can have human health and environmental effects at certain concentrations. The United States Environmental Protection Agency (U.S. EPA) uses six "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). In addition, California establishes ambient air quality standards, called California Ambient Air Quality Standards (CAAQS). California law does not require that the CAAQS be met by a specified date as is the case with NAAQS.

The ambient air quality standards for the six criteria pollutants (as shown in Table 3.3-1) are set to public health and the environment within an adequate margin of safety (as provided under Section 109 of the Federal Clean Air Act). Epidemiological, controlled human exposure, and toxicology studies evaluate potential health and environmental effects of criteria pollutants, and form the scientific basis for new and revised ambient air quality standards. Principal characteristics and possible health and environmental effects from exposure to the six primary criteria pollutants generated by the Project are discussed below.

Ozone (O_3) is a photochemical oxidant and the major component of smog. While O_3 in the upper atmosphere is beneficial to life by shielding the earth from harmful ultraviolet radiation from the sun, high concentrations of O_3 at ground level are a major health and environmental concern. O_3 is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (ROG) and oxides of nitrogen (NO_x) in the presence of sunlight. These reactions are stimulated by sunlight and temperature so that peak O_3 levels occur typically during the warmer times of the year. Both ROGs and NO_x are emitted by transportation and industrial sources. ROGs are emitted from sources as diverse as autos, chemical manufacturing, dry cleaners, paint shops and other sources using solvents. Relatedly, reactive organic compounds (ROG) are defined as the subset of ROGs that are reactive enough to contribute substantially to atmospheric photochemistry.

The reactivity of O_3 causes health problems because it damages lung tissue, reduces lung function and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O_3 not only affect people with impaired respiratory systems, such as asthmatics, but healthy adults and children as well. Exposure to O_3 for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to ozone may increase the risk of respiratory-related deaths (U.S. EPA, 2019a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of ozone and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggest that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 parts per billion (U.S. EPA, 2019b). The average background level of ozone in California and Nevada is approximately 48.3 parts per billion, which represents approximately 77 percent of the total ozone in the western region of the U.S. (NASA, 2015).

In addition to human health effect, ozone has been tied to crop damage, typically in the form of stunted growth, leaf discoloration, cell damage, and premature death. O_3 can also act as a corrosive and oxidant, resulting in property damage such as the degradation of rubber products and other materials.

Carbon monoxide (CO) is a colorless, odorless and poisonous gas produced by incomplete burning of carbon in fuels. Carbon monoxide is harmful because it binds to hemoglobin in the blood, reducing the ability of blood to carry oxygen. This interferes with oxygen delivery to the body's organs. The most common effects of CO exposure are fatigue, headaches, confusion, and dizziness due to inadequate oxygen delivery to the brain. For people with cardiovascular disease, short-term CO exposure can further reduce their body's already compromised ability to respond to the increased oxygen demands of exercise, exertion, or stress. Inadequate oxygen delivery to the heart muscle leads to chest pain and decreased exercise tolerance. Unborn babies whose mothers experience high levels of CO exposure during pregnancy are at risk of adverse developmental effects. Exposure to CO at high concentrations can also cause fatigue, headaches, confusion, dizziness, and chest pain. There are no ecological or environmental effects to ambient CO (CARB, 2019a).

Very high levels of CO are not likely to occur outdoors. However, when CO levels are elevated outdoors, they can be of particular concern for people with some types of heart disease. These people already have a reduced ability for getting oxygenated blood to their hearts in situations where the heart needs more oxygen than usual. They are especially vulnerable to the effects of CO when exercising or under increased stress. In these situations, short-term exposure to elevated CO may result in reduced oxygen to the heart accompanied by chest pain also known as angina (U.S. EPA, 2016). Such acute effects may occur under current ambient conditions for some sensitive individuals, while increases in ambient CO levels increases the risk of such incidences.

Nitrogen oxides (NO_x) is a brownish, highly reactive gas that is present in all urban atmospheres. The main effect of increased NO_2 is the increased likelihood of respiratory problems. Under ambient conditions, NO_2 can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections. Nitrogen oxides are an important precursor both to ozone (O_3) and acid rain and may affect both terrestrial and aquatic ecosystems. Longer exposures to elevated concentrations of NO_2 may contribute to the development of asthma and potentially increase

susceptibility to respiratory infections. People with asthma, as well as children and the elderly are generally at greater risk for the health effects of NO_2.

The major mechanism for the formation of NO_2 in the atmosphere is the oxidation of the primary air pollutant nitric oxide (NO_x). NO_x plays a major role, together with ROGs, in the atmospheric reactions that produce O_3. NO_x forms when fuel is burned at high temperatures. The two major emission sources are transportation and stationary fuel combustion sources such as electric utility and industrial boilers.

Sulfur dioxide (SO_2) is one of the multiple gaseous oxidized sulfur species and is formed during the combustion of fuels containing sulfur, primarily coal and oil. The largest anthropogenic source of SO_2 emissions in the U.S. is fossil fuel combustion at electric utilities and other industrial facilities. SO_2 is also emitted from certain manufacturing processes and mobile sources, including locomotives, large ships, and construction equipment.

SO_2 affects breathing and may aggravate existing respiratory and cardiovascular disease in high doses. Sensitive populations include asthmatics, individuals with bronchitis or emphysema, children and the elderly. SO_2 is also a primary contributor to acid deposition, or acid rain, which causes acidification of lakes and streams and can damage trees, crops, historic buildings and statues. In addition, sulfur compounds in the air contribute to visibility impairment in large parts of the country. This is especially noticeable in national parks. Ambient SO_2 results largely from stationary sources such as coal and oil combustion, steel mills, refineries, pulp and paper mills and from nonferrous smelters.

Short-term exposure to ambient SO_2 has been associated with various adverse health effects. Multiple human clinical studies, epidemiological studies, and toxicological studies support a causal relationship between short-term exposure to ambient SO_2 and respiratory morbidity. The observed health effects include decreased lung function, respiratory symptoms, and increased emergency department visits and hospitalizations for all respiratory causes. These studies further suggest that people with asthma are potentially susceptible or vulnerable to these health effects. In addition, SO_2 reacts with other air pollutants to form sulfate particles, which are constituents of fine particulate matter ($PM_{2.5}$). Inhalation exposure to $PM_{2.5}$ has been associated with various cardiovascular and respiratory health effects (U.S. EPA, 2017). Increased ambient SO_2 levels would lead to increased risk of such effects.

SO_2 emissions that lead to high concentrations of SO_2 in the air generally also lead to the formation of other sulfur oxides (SOx). SOx can react with other compounds in the atmosphere to form small particles. These particles contribute to particulate matter (PM) pollution. Small particles may penetrate deeply into the lungs and in sufficient quantity can contribute to health problems.

Particulate matter (PM) includes dust, dirt, soot, smoke and liquid droplets directly emitted into the air by sources such as factories, power plants, cars, construction activity, fires and natural windblown dust. Particles formed in the atmosphere by condensation or the transformation of emitted gases such as SO_2 and ROGs are also considered particulate matter. PM is generally categorized based on the diameter of the particulate matter: PM_{10} is particulate matter 10

micrometers or less in diameter (known as respirable particulate matte*r*), and $PM_{2.5}$ is particulate matter 2.5 micrometers or less in diameter (known as fine particulate matter).

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO_2) and laboratory studies of animals and humans, there are major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis and premature death. Small particulate pollution causes health impacts even at very low concentrations – indeed no threshold has been identified below which no damage to health is observed.

Particulate matter (PM_{10}) consists of small particles, less than 10 microns in diameter, of dust, smoke, or droplets of liquid which penetrate the human respiratory system and cause irritation by themselves, or in combination with other gases. Particulate matter is caused primarily by dust from grading and excavation activities, from agricultural activities (as created by soil preparation activities, fertilizer and pesticide spraying, weed burning and animal husbandry), and from motor vehicles, particularly diesel-powered vehicles. PM_{10} causes a greater health risk than larger particles, since these fine particles can more easily penetrate the defenses of the human respiratory system.

$PM_{2.5}$ consists of fine particles that are less than 2.5 microns in size. Similar to PM_{10}, these particles are primarily the result of combustion in motor vehicles, particularly diesel engines, as well as from industrial sources and residential/agricultural activities such as burning. It is also formed through the reaction of other pollutants. As with PM_{10}, these particulates can increase the chance of respiratory disease, and cause lung damage and cancer. In 1997, the U.S. EPA created new Federal air quality standards for $PM_{2.5}$.

Although neither the U.S. EPA nor the California air districts have provided any thresholds for ultrafine particles (UFPs) (defined as fine particles of less than 0.1 microns in size, or $PM_{0.1}$), it should be noted that such particles may have the potential for even greater health effects than PM_{10} or $PM_{2.5}$, due to their even smaller sizes. UFPs are primarily generated by motor vehicle emissions (especially from diesel engines), braking, and tire wear. Specifically, UFPs are comprised mostly of metals that are known constituents of brake pads and drums, as well as additives in motor oil. Generally, all engines can create UFPs, but especially diesel engines, and any vehicle's braking system; traffic, particularly start-and-stop, generates UFPs.[2] Recent research suggests that UFPs pose considerable health risks, similar to but tending to be more severe than PM_{10} and $PM_{2.5}$, such as increased risk of cardiovascular disease and ischemic heart disease death rates, and loss of lung

[2] Aerosol Science and Technology. 2011. Thomas A. Cahill, David E. Barnes, Nicholas J. Spada, Jonathan A. Lawton, and Thomas M. Cahill. Very Fine and Ultrafine Metals and Ischemic Heart Disease in the California Central Valley 1: 2003-2007. July 13, 2011.

function.[3] Furthermore, unlike diesel exhaust or other larger TAC emissions, UFPs are more persistent and do not dissipate easily over distances.[4]

The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or influenza, asthmatics, the elderly and children. Particulate matter also impacts soils and damages materials and is a major cause of visibility impairment.

Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lunch function, and increased respiratory symptoms. Studies show that every 1 microgram per cubic meter reduction in $PM_{2.5}$ results in a one percent reduction in mortality rate for individuals over 30 years old (Bay Area Air Quality Management District, 2017). Long-term exposures, such as those experienced by people living for many years in areas with high PM levels, have been associated with problems such as reduced lung function and the development of chronic bronchitis – and even premature death. Additionally, depending on its composition, both PM_{10} and $PM_{2.5}$ can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (U.S. EPA, 2022c).

Lead (Pb) exposure can occur through multiple pathways, including inhalation of air and ingestion of Pb in food, water, soil or dust. Once taken into the body, lead distributes throughout the body in the blood and is accumulated in the bones. Depending on the level of exposure, lead can adversely affect the nervous system, kidney function, immune system, reproductive and developmental systems and the cardiovascular system. Lead exposure also affects the oxygen carrying capacity of the blood. Excessive Pb exposure can cause seizures, mental retardation and/or behavioral disorders. Low doses of Pb can lead to central nervous system damage. Recent studies have also shown that Pb may be a factor in high blood pressure and subsequent heart disease.

Lead is persistent in the environment and can be added to soils and sediments through deposition from sources of lead air pollution. Other sources of lead to ecosystems include direct discharge of waste streams to water bodies and mining. Elevated lead in the environment can result in decreased growth and reproductive rates in plants and animals, and neurological effects in vertebrates.

Lead exposure is typically associated with industrial sources. Major sources of lead in the air are ore and metals processing and piston-engine aircraft operating on leaded aviation fuel. Other sources are waste incinerators, utilities, and lead-acid battery manufacturers. The highest air concentrations

[3] Atmospheric Environment. 2016. Thomas A. Cahill, David E. Barnes, Leann Wuest, David Gribble, David Buscho, Roger S. Miller, Camille De la Croix. Artificial Ultra-fine Aerosol Tracers for Highway Transect Studies. April 7, 2016;
Aerosol Science and Technology. 2011. Thomas A. Cahil, David E. Barnes, Earl Withycombe, & Mitchell Watnik, and DELTA Group. Very Fine and Ultrafine Metals and Ischemic Heart Disease in the California Central Valley 1: 1974-1991. July 13, 2011.

[4] Atmospheric Environment. 2016. Transition Metals in Coarse, Fine, Very Fine and Ultra-fine Particles from an Interstate Highway Transect Near Detroit. September 12, 2016.

of lead are usually found near lead smelters. As a result of the U.S. EPA's regulatory efforts, including the removal of lead from motor vehicle gasoline, levels of lead in the air decreased by 98 percent between 1980 and 2014 (U.S. EPA, 2022d). Based on this reduction of lead in the air over this period, and since most new developments do not generate an increase in lead exposure, the health impacts of ambient lead levels are not typically monitored by the California Air Resources Board (CARB).

AMBIENT AIR QUALITY STANDARDS

Both the U.S. EPA and the CARB have established ambient air quality standards for common pollutants. These ambient air quality standards represent safe levels of contaminants that avoid specific adverse health effects associated with each pollutant.

The federal and State ambient air quality standards are summarized in Table 3.3-1 for important pollutants. The federal and State ambient standards were developed independently, although both processes were aimed at avoiding health-related effects. As a result, the federal and State standards differ in some cases. In general, the California standards are more stringent. This is particularly true for ozone, $PM_{2.5}$, and PM_{10}. The U.S. EPA signed a final rule for the federal ozone eight-hour standard of 0.070 ppm on October 1, 2015, which was effective as of December 28, 2015 (equivalent to the California state ambient air quality eight-hour standard for ozone).

TABLE 3.3-1: FEDERAL AND STATE AMBIENT AIR QUALITY STANDARDS

POLLUTANT	*AVERAGING TIME*	*FEDERAL PRIMARY STANDARD*	*STATE STANDARD*
Ozone	1-Hour 8-Hour	-- 0.070 ppm	0.09 ppm 0.070 ppm
Carbon Monoxide	8-Hour 1-Hour	9.0 ppm 35.0 ppm	9.0 ppm 20.0 ppm
Nitrogen Dioxide	Annual 1-Hour	0.053 ppm 0.100 ppm	0.03 ppm 0.18 ppm
Sulfur Dioxide	Annual 24-Hour 1-Hour	0.03 ppm 0.14 ppm 0.075 ppm	-- 0.04 ppm 0.25 ppm
PM_{10}	Annual 24-Hour	-- 150 ug/m^3	20 ug/m^3 50 ug/m^3
$PM_{2.5}$	Annual 24-Hour	12 ug/m^3 35 ug/m^3	12 ug/m^3 --
Lead	30-Day Avg. 3-Month Avg.	-- 0.15 ug/m^3	1.5 ug/m^3 --

NOTES: PPM = PARTS PER MILLION, UG/M3 = MICROGRAMS PER CUBIC METER
SOURCE: CALIFORNIA AIR RESOURCES BOARD, 2019A.

In 1997, new national standards for fine particulate matter diameter 2.5 microns or less ($PM_{2.5}$) were adopted for 24-hour and annual averaging periods. The existing PM_{10} standards were retained, but the method and form for determining compliance with the standards were revised.

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are another group of pollutants of concern. TACs are injurious in small quantities and are regulated. The identification, regulation, and monitoring of TACs is relatively recent compared to that for criteria

pollutants. Unlike criteria pollutants, TACs are regulated on the basis of risk rather than specification of safe levels of contamination.

Existing air quality concerns within San Joaquin County and the entire air basin are related to increases of regional criteria air pollutants (e.g., ozone and particulate matter), exposure to toxic air contaminants, odors, and increases in greenhouse gas emissions contributing to climate change. The primary source of ozone (smog) pollution is motor vehicles, which account for 70 percent of the ozone in the region. Particulate matter is caused by dust, primarily dust generated from construction and grading activities, and smoke emitted from fireplaces, wood-burning stoves, and agricultural burning.

Attainment Status

In accordance with the California Clean Air Act (CCAA), the CARB is required to designate areas of the State as attainment, nonattainment, or unclassified with respect to applicable standards. An "attainment" designation for an area signifies that pollutant concentrations did not violate the applicable standard in that area. A "nonattainment" designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria.

Depending on the frequency and severity of pollutants exceeding applicable standards, the nonattainment designation can be further classified as serious nonattainment, severe nonattainment, or extreme nonattainment, with extreme nonattainment being the most severe of the classifications. An "unclassified" designation signifies that the data do not support either an attainment or nonattainment status. The CCAA divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The U.S. EPA designates areas for ozone, carbon monoxide, and nitrogen dioxide as "does not meet the primary standards," "cannot be classified," or "better than national standards." For sulfur dioxide, areas are designated as "does not meet the primary standards," "does not meet the secondary standards," "cannot be classified," or "better than national standards." However, the CARB terminology of attainment, nonattainment, and unclassified is more frequently used.

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 $PM_{2.5}$. Table 3.3-2 presents the state and nation attainment status for San Joaquin County.

TABLE 3.3-2: STATE AND NATIONAL ATTAINMENT STATUS IN SAN JOAQUIN COUNTY

CRITERIA POLLUTANTS	*STATE DESIGNATIONS*	*NATIONAL DESIGNATIONS*
Ozone (O_3)	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
Carbon Monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2)	Attainment	Unclassified/Attainment
Sulfates	Attainment	
Lead	Attainment	Unclassified/Attainment
Hydrogen Sulfide	Unclassified	
Visibility Reducing Particles	Unclassified	

SOURCE: CALIFORNIA AIR RESOURCES BOARD, 2023.

San Joaquin County Air Quality Monitoring

The San Joaquin Valley Air Pollution District (SJVAPCD) and the CARB maintain air quality monitoring sites throughout San Joaquin County that collect data for ozone and $PM_{2.5}$. In addition, air quality monitoring sites for PM_{10} are located throughout the San Joaquin Valley (though not in San Joaquin County). The closest air quality monitoring station to the Project site is the Stockton-Hazelton Street location. It is important to note that while the State retains the one-hour ozone standard, the federal ozone 1-hour standard was revoked by the U.S. EPA and is no longer applicable for federal standards. Best available data obtained from the monitoring sites between 2017 and 2021 (latest year of data available) is shown in Table 3.3-3, Table 3.3-4, and Table 3.3-5.

TABLE 3.3-3 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (STOCKTON-HAZELTON STREET)* - OZONE

YEAR	*DAYS > STANDARD*				*1-HOUR OBSERVATIONS*			*8-HOUR AVERAGES*				*YEAR COVERAGE*	
	STATE		*NATIONAL*			*STATE*	*NAT'L*	*STATE*		*NATIONAL*			
	1-HR	*8-HR*	*1-HR*	*8-HR*	*MAX.*	*D.V.[1]*	*D.V.[2]*	*MAX.*	*D.V.[1]*	*MAX.*	*D.V.[2]*	*MIN*	*MAX*
2021	0	1	0	1	0.085	0.10	0.093	0.073	No data	0.073	No data	73	74
2020	1	2	0	2	0.100	0.09	0.088	0.0.74	0.066	0.0.74	0.066	99	99
2019	1	2	0	2	0.098	0.08	0.087	0.077	0.066	0.077	0.066	90	91
2018	1	2	0	1	0.088	0.18	0.087	0.077	0.066	0.077	0.066	94	96
2017	0	2	0	2	0.085	0.09	0.090	0.079	0.066	0.079	0.066	80	84

*NOTES: ALL CONCENTRATIONS EXPRESSED IN PARTS PER MILLION. THE NATIONAL 1-HOUR OZONE STANDARD WAS REVOKED IN JUNE 2005 AND IS NO LONGER IN EFFECT. STATISTICS RELATED TO THE REVOKED STANDARD ARE SHOWN IN ITALICS. D.V. [1]= STATE DESIGNATION VALUE. D.V. [2]= NATIONAL DESIGN VALUE. *STOCKTON-HAZELTON STREET REPRESENTS THE CLOSEST MONITORING STATION TO THE PROJECT SITE.*

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR IADAM) AIR POLLUTION SUMMARIES.

TABLE 3.3-4: AMBIENT AIR QUALITY MONITORING DATA SUMMARY (STOCKTON-HAZELTON STREET)* – PM_{10}

YEAR	EST. DAYS > STD.		ANNUAL AVERAGE		HIGH 24-HR AVERAGE		YEAR COVERAGE
	NAT'L	STATE	NAT'L	STATE	NAT'L	STATE	
2021	No data	No data	36.8	No data	199.1	160.3	0
2020	No data	No data	33.5	No data	147.0	148.5	84
2019	0	45.4	24.4	25.2	85.9	89.1	96
2018	13.1	31.7	28.7	29.5	187.0	198.6	97
2017	0	42.9	28.2	28.8	89.9	92.6	97

NOTES: THE NATIONAL ANNUAL AVERAGE PM_{10} STANDARD WAS REVOKED IN DECEMBER 2006 AND IS NO LONGER IN EFFECT. AN EXCEEDANCE IS NOT NECESSARILY A VIOLATION. STATISTICS MAY INCLUDE DATA THAT ARE RELATED TO AN EXCEPTIONAL EVENT. STATE AND NATIONAL STATISTICS MAY DIFFER FOR THE FOLLOWING REASONS: STATE STATISTICS ARE BASED ON CALIFORNIA APPROVED SAMPLERS, WHEREAS NATIONAL STATISTICS ARE BASED ON SAMPLERS USING FEDERAL REFERENCE OR EQUIVALENT METHODS. STATE AND NATIONAL STATISTICS MAY THEREFORE BE BASED ON DIFFERENT SAMPLERS. NATIONAL STATISTICS ARE BASED ON STANDARD CONDITIONS. STATE CRITERIA FOR ENSURING THAT DATA ARE SUFFICIENTLY COMPLETE FOR CALCULATING VALID ANNUAL AVERAGES ARE MORE STRINGENT THAN THE NATIONAL CRITERIA.

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR iADAM) AIR POLLUTION SUMMARIES.

TABLE 3.3-5 AMBIENT AIR QUALITY MONITORING DATA SUMMARY (STOCKTON-HAZELTON STREET)* - $PM_{2.5}$

YEAR	EST. DAYS > NAT'L '06 STD.	ANNUAL AVERAGE		NAT'L ANN. STD. D.V.[1]	STATE ANNUAL D.V.[2]	NAT'L '06 STD. 98TH PERCENTILE	NAT'L '06 24-HR STD. D.V.[1]	HIGH 24-HOUR AVERAGE		YEAR COVERAGE	
		NAT'L	STATE					NAT'L	STATE	MIN	MAX
2021	No data	No data	No data	No data	14	39.9	51	582	58.2	64	64
2020	21.2	14.0	14.0	13.7	17	80.6	69	130.7	130.7	98	99
2019	6.4	9.3	No data	13.0	17	32.9	56	50.1	50.1	77	95
2018	25.0	17.6	17.4	13.8	17	92.3	56	188.0	257.5	96	100
2017	16.9	12.1	No data	12.2	12	44.2	39	53.7	53.7	94	99

NOTES: ALL CONCENTRATIONS EXPRESSED IN PARTS PER MILLION. STATE AND NATIONAL STATISTICS MAY DIFFER FOR THE FOLLOWING REASONS: STATE STATISTICS ARE BASED ON CALIFORNIA APPROVED SAMPLERS, WHEREAS NATIONAL STATISTICS ARE BASED ON SAMPLERS USING FEDERAL REFERENCE OR EQUIVALENT METHODS. STATE AND NATIONAL STATISTICS MAY THEREFORE BE BASED ON DIFFERENT SAMPLERS. STATE CRITERIA FOR ENSURING THAT DATA ARE SUFFICIENTLY COMPLETE FOR CALCULATING VALID ANNUAL AVERAGES ARE MORE STRINGENT THAN THE NATIONAL CRITERIA. D.V. [1] = STATE DESIGNATION VALUE. D.V. [2]= NATIONAL DESIGN VALUE.

SOURCE: CALIFORNIA AIR RESOURCES BOARD (AEROMETRIC DATA ANALYSIS AND MANAGEMENT SYSTEM OR iADAM) AIR POLLUTION SUMMARIES.

ODORS

Typically, odors are regarded as an annoyance rather than a health hazard. However, manifestations of a person's reaction to foul odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache).

With respect to odors, the human nose is the sole sensing device. The ability to detect odors varies considerably among the population and overall is quite subjective. Some individuals have the ability to smell minute quantities of specific substances; others may not have the same sensitivity but may have sensitivities to odors of other substances. In addition, people may have different reactions to the same odor; in fact, an odor that is offensive to one person (e.g., from a fast-food restaurant) may be perfectly acceptable to another.

It is also important to note that an unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. This is because of the phenomenon known as odor fatigue, in which a person can become desensitized to almost any odor and recognition only occurs with an alteration in the intensity.

Quality and intensity are two properties present in any odor. The quality of an odor indicates the nature of the smell experience. For instance, if a person describes an odor as flowery or sweet, then the person is describing the quality of the odor. Intensity refers to the strength of the odor. For example, a person may use the word "strong" to describe the intensity of an odor. Odor intensity depends on the odorant concentration in the air.

3.3.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The U.S. EPA is responsible for administering the FCAA. The FCAA requires the U.S. EPA to set NAAQS for several air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health (with an adequate margin of safety, including for sensitive populations such as children, the elderly, and individuals suffering from respiratory diseases), and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

NAAQS standards define clean air and represent the maximum amount of pollution that can be present in outdoor air without any harmful effects on people and the environment. Existing violations of the ozone and $PM_{2.5}$ ambient air quality standards indicate that certain individuals exposed to these pollutants may experience certain health effects, including increased incidence of cardiovascular and respiratory ailments.

Although there is some variability among the health effects of the NAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing.

Federal Hazards Air Pollutants Program

The 1977 CAA Amendments required the USEPA to identify National Emissions Standards for Hazardous Air Pollutants (NESHAPs) to protect the public health and welfare. Hazardous air

pollutants include certain VOCs, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 CAA Amendments, which expanded the control program for hazardous air pollutants, 189 substances and chemical families were identified as hazardous air pollutants.

Federal Heavy-duty Engines and Vehicles Fuel Efficiency Standards

In 2010, President Obama issued a memorandum directing federal agencies to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and National Highway Traffic Safety Administration (NHTSA) proposed stringent, coordinated federal GHG and fuel economy standards for model year 2017–2025 light-duty vehicles. The proposed standards are projected to achieve 163 grams/mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon (mpg) 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.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the USEPA 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.

In August 2016, the USEPA 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 of sizes of buses and work trucks. The final standards are expected to lower carbon dioxide emissions by approximately 1.1 billion metric tons (MT) and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program.[5]

In August 2017, the USEPA asked for additional information and data relevant to assessing whether the GHG emissions standards for model years 2022-2025 remain appropriate. In early 2018, the USEPA Administrator announced that the midterm evaluation for the GHG emissions standards for cars and light-duty trucks for model years 2022-2025 was completed and stated his determination that the current standards should be revised in light of recent data. Subsequently, in April 2018, the USEPA and NHTSA proposed to amend certain existing Corporate Average Fuel Economy (CAFE) standards for passenger cars and light trucks and establish new standards, covering model years 2022-2025. Compared to maintaining the post-2020 standards now in place, the pending proposal

[5] USEPA and NHTSA. 2016. Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2. Available at: https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf. Accessed: February 2022.

would increase U.S. fuel consumption.[6] California and other states have announced their intent to challenge federal actions that would delay or eliminate GHG reductions. In April 2020, NHTSA and EPA amended the CAFE and GHG emissions standards for passenger cars and light trucks and established new less stringent standards, covering model years 2021 through 2026.

On September 27, 2019, the USEPA and NHTSA published the SAFE Rule (Part One).[7] The SAFE Rule (Part One) went into effect in November 2019, and revoked California's authority to set its own GHGs standards and set zero emission vehicle mandates in California. The SAFE Rule (Part One) freezes new zero emission vehicles (ZEV) sales at model year 2020 levels for year 2021 and beyond, and will likely result in a lower number of future ZEVs and a corresponding greater number of future gasoline internal combustion engine vehicles. In response to the USEPA's adoption of the SAFE Rule (Part One), CARB has issued guidance regarding the adjustment of vehicle emissions factors to account for the rule's implications on criteria air pollutant and greenhouse gas emissions.[8,9] The SAFE Rule is subject to ongoing litigation and on February 8, 2021 the D.C. Circuit Court of Appeals granted the Biden Administration's motion to stay litigation over Part 1 of the SAFE Rule. On April 22 and April 28, 2021, respectively, NHTSA and USEPA formally announced their intent to reconsider the Safe Rule (Part One).[10] In August 2021, USEPA proposed to revise existing national greenhouse gas (GHG) emissions standards for passenger cars and light trucks for Model Years 2023- 2026 to make the standards more stringent. On August 5, 2021, USEPA announced plans to reduce greenhouse gas (GHG) emissions and other harmful air pollutants from heavy-duty trucks through a series of rulemakings over the next three years. The first rulemaking, to be finalized in 2022, will apply to heavy-duty vehicles starting in model year 2027, and will set new standards for criteria

[6] NHTSA. 2018. Federal Register, Vol. 83, No. 72, Rules & Regulations, Mid-Term Evaluation of Greenhouse Gas Emissions Standards for Model Year 2022-2025 Light Duty Vehicles. April 13. Available at: https://www.federalregister.gov/documents/2018/04/13/2018-07364/mid-term-evaluation-of-greenhouse-gas-emissions-standards-for-model-year-2022-2025-light-duty. Accessed: February 2022.

[7] USEPA and NHTSA. 2019. Federal Register, Vol. 84, No. 188, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program. September 27. Available at: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed: February 2022.

[8] CARB. 2019. EMFAC Off-Model Adjustment Factors to Account for the SAFE Vehicle Rule Part One. November 20. Available at: https://ww3.arb.ca.gov/msei/emfac_off_model_adjustment_factors_final_draft.pdf. Accessed: February 2022.

[9] CARB. 2020. EMFAC Off-Model Adjustment Factors for Carbon Dioxide Emissions to Account for the SAFE Vehicles Rule Part One and the Final SAFE Rule. June 26. Available at: https://ww3.arb.ca.gov/msei/emfac_off_model_co2_adjustment_factors_06262020-final.pdf. Accessed: February 2022.

[10] USEPA. 2021. Federal Register, Vol. 86, No. 80, California State Motor Vehicle Pollution Control Standards; Advanced Clean Car Program; Reconsideration of a previous Withdrawal of a Waiver of Preemption; Opportunity for Public Hearing and Public Comment. April 28. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/notice-reconsideration-previous-withdrawal-waiver. Accessed: February 2022.

pollutants for the entire sector as well as targeted updates to the current GHG emissions standards.[11]

STATE

California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the federal CAA at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The CARB administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six pollutants subject to federal standards listed above as well as visibility reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. The U.S. EPA authorized California to adopt its own regulations for motor vehicles and other sources that are more stringent than similar federal regulations implementing the CAA. Generally, the planning requirements of the federal CAA are less stringent than the CCAA; therefore, consistency with the CCAA will also demonstrate consistency with the federal CAA.

CARB Mobile-Source Regulation

The State of California is responsible for controlling emissions from the operation of motor vehicles in the State. Rather than mandating the use of specific technology or the reliance on a specific fuel, the CARB motor vehicle standards specify the allowable grams of pollution per mile driven. In other words, the regulations focus on the reductions needed rather than on the manner in which they are achieved. Towards this end, the CARB has adopted regulations that require auto manufacturers to phase in less-polluting vehicles.

California Air Quality Standards

Although NAAQS are determined by the U.S. EPA, states have the ability to set standards that are more stringent than the federal standards. As such, California established more stringent ambient air quality standards. Federal and state ambient air quality standards have been established for ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, suspended particulates and lead. In addition, California has created standards for pollutants that are not covered by federal standards. Although there is some variability among the health effects of the CAAQS pollutants, each has been linked to multiple adverse health effects including, among others, premature death, hospitalizations and emergency department visits for exacerbated chronic disease, and increased symptoms such as coughing and wheezing. The existing state and federal primary standards for major pollutants are shown in Table 3.3-1.

[11] USEPA. 2021. Clean Trucks Plan. https://www.epa.gov/regulations-emissions-vehicles-and-engines/clean-trucks-plan. Accessed: February 2022.

Tanner Air Toxics Act (TACs)

California regulates TACs primarily through the Tanner Air Toxics Act (AB 1807) and the Air Toxics Hot Spots Information and Assessment Act of 1987 (AB 2588). The Tanner Air Toxics Act sets forth a formal procedure for CARB to designate substances as TACs. This includes research, public participation, and scientific peer review before CARB can designate a substance as a TAC. To date, CARB has identified more than 21 TACs and has adopted U.S. EPA's list of Hazardous Air Pollutants (HAPs) as TACs. Most recently, diesel PM was added to the CARB list of TACs. Once a TAC is identified, CARB then adopts an Airborne Toxics Control Measure (ATCM) for sources that emit that particular TAC. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure below that threshold. If there is no safe threshold, the measure must incorporate Best Available Control Technologies (BACT) to minimize emissions.

Toxic Air Contaminants Health Effects

A toxic air contaminant (TAC) is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. The California Almanac of Emissions and Air Quality presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in California based on available data. The 10 TACs are acetaldehyde, benzene, 1.3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk. In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies, depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The CARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the CARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of DPM.

Transportation Control Measures

The State Implementation Plan (SIP) describes the infrastructure (authorities, resources, and programs) California has in place to implement, maintain, and enforce the NAAQS. One particular aspect of the development process is the consideration of potential control measures as a part of making progress towards clean air goals. While most SIP control measures are aimed at reducing emissions from stationary sources, some are typically also created to address mobile or transportation sources. These are known as transportation control measures (TCMs). TCM strategies are designed to reduce vehicle miles traveled and trips, or vehicle idling and associated air pollution. These goals are achieved by developing attractive and convenient alternatives to single-occupant vehicle use. Examples of TCMs include ridesharing programs, transportation infrastructure improvements such as adding bicycle and carpool lanes, and expansion of public transit.

Omnibus Low-NOx Rule

CARB approved the Omnibus Low-NOx Rule on August 28, 2020, which will require engine NOx emissions to be cut to approximately 75% below current standards beginning in 2024, and 90% below current standards in 2027. The rule also places nine additional regulatory requirements on new heavy-duty trucks and engines. Those additional requirements include a 50% reduction in particulate matter emissions, stringent new low-load and idle standards, a new in-use testing protocol, extended deterioration requirements, a new California-only credit program, and extended mandatory warranty requirements. The regulatory requirements in the Omnibus Low-NOx Rule will first become effective in 2024, at the same time as the Advanced Clean Trucks regulations that CARB approved that require manufacturers to convert increasing percentages of their heavy-duty trucks sold in California to zero-emission vehicles.

Low Emission Vehicle Program

The CARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represent continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 State Implementation Plan (SIP). In 2012, the CARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Car Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and greenhouse gas (GHG) emissions for new passenger vehicles.

On September 23, 2020, Governor Gavin Newsom issued Executive Order N-79-20 establishing a goal that 100 percent of new passenger cars and trucks sold in California shall be zero-emission by 2035. The Executive Order also sets a goal that, where feasible, all operations include zero-emission medium- and heavy-duty trucks by 2045, and drayage trucks by 2035. Off-road vehicles have a goal to transition to 100 percent zero-emission vehicles by 2035, where feasible.

On-Road Heavy-Duty Vehicle Program

The CARB has adopted standards for emissions from various types of new on-road heavy-duty vehicles. Section 1956.8, Title 13, California Code of Regulations contains California's emission standards for on-road heavy-duty engines and vehicles, and test procedures. The CARB has also adopted programs to reduce emissions from in-use heavy-duty vehicles including the Heavy-Duty Diesel Vehicle Idling Reduction Program, the Heavy-Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.

California Air Resources Board Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the CARB adopted a regulation to reduce DPM and NOx emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. The CARB is enforcing that part of the rule with fines up to $10,000 per day for each vehicle in violation. Performance requirements of the rule are based on a fleet's average NOx emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirements, making the first compliance deadline January 1, 2014, for large fleets (over 5,000 horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less).

The latest amendments became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter (PM) filter requirements beginning January 1, 2012. Lighter and older heavier trucks were required to be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent.

The regulation applies to nearly all privately and federally owned diesel-fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. The regulation provides a variety of flexibility options tailored to fleets operating low use vehicles, fleets operating in selected vocations like agricultural and construction, and small fleets of three or fewer trucks.[12]

Diesel Risk Reduction Plan

The CARB's Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits

[12] California Air Resources Board (CARB). 2021. Truck and Bus Regulation. Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed February 16, 2021.

associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.[13]

LOCAL

City of Lathrop General Plan

The City of Lathrop General Plan includes several goals, policies, and implementation actions that are relevant to air quality. General Plan goals, policies, and implementation actions applicable to the Project are identified below:

GOALS – LAND USE ELEMENT

- LU-1: Accommodate a mix of land uses that meet the needs of residents, businesses, and visitors with places to live, work, shop, be entertained and culturally engaged.
- LU-2: Promote objectives and development in special planning areas consistent with adopted specific plans, overlay districts, Master Plans and density bonus provisions.
- LU-3: Participate in coordinated local and regional land use planning activities.
- LU-4: Coordinate and integrate land use planning and transportation objectives.
- LU-5: Ensure that new development is compatible with existing development**.**

GOALS – CIRCULATION ELEMENT

- CIR-1: Develop and maintain a roadway system that accommodates all users.
- CIR-2: Create a system of pedestrian, bicycle, and transit facilities that enables non-automotive accessibility and increases the health and livability of the community.
- CIR-4: Plan for the future of transportation to ensure accessibility for all, reduce the environmental impacts of Transportation, and improve the quality of life.

GOAL – RECREATION AND RESOURCES ELEMENT

- RR-6: Provide the community with optimal air quality.

POLICIES – LAND USE ELEMENT

- LU-1.1: Support a full spectrum of conveniently located residential, commercial, industrial, public, and quasi-public uses that support business development, regional transportation objectives and the livability of residential neighborhoods.
- LU-1.3: Maintain a supply of developable lands sufficient to meet desired levels of housing, jobs, economic, educational, and recreational needs of the city over the planning horizon.
- LU-1.4: Continue to support the development of a variety of housing types and densities that meet the needs of individuals and families, and offers residents of all income levels, age

[13] California Air Resources Board (CARB). 2021. Diesel Risk Reduction Plan. Website: https://ww2.arb.ca.gov/our-work/programs/diesel-risk-reduction-plan. Accessed February 16, 2021.

groups and special needs sufficient housing opportunities and choices. (Additional policies specifically related to Housing are included in the General Plan's Housing Element)

- LU-1.8: Recognize that the General Plan and Land Use Map may be amended in accordance with State law in order to ensure that there is an adequate supply of commercial, industrial, public facility, parks, residential, and other desired land uses to serve the City's needs.
- LU-3.1: Support regional efforts that promote higher densities and intensities near major transit and travel facilities, and reduce regional vehicle miles traveled by supporting active modes of transportation including walking, biking, and public transit.
- LU-3.2: Utilize planning tools and objectives that promote transit-oriented and mixed-use development objectives near future ACE and Valley Link Transit Facilities. Land use plans for these areas should complement transit facilities to accommodate transit oriented development (TOD) developments and/or park-and-ride facilities near ACE stations and future Valley Link station.
- LU-3.3: Integrate climate change and adaptation planning principles into future updates of the Zoning Code, and other related long-range utilities and facilities planning documents. (See the Safety Element for additional policies related to climate change and resiliency planning).
- LU-3.4: Promote logical City boundaries and work with surrounding jurisdictions to encourage complementary uses. Specifically, work with the City of Manteca and San Joaquin County to ensure development of complementary and compatible uses adjacent to Lathrop.
- LU-4.2: Emphasize efforts to reduce regional vehicle miles traveled (VMT) by supporting land use patterns and site designs that promote active modes of transportation, and public transit.
- LU-4.3: Encourage the development of new industrial and business park which facilitate efficient circulation patterns that reduce truck traffic near residential uses.
- LU-4.4: As the city grows, encourage and support the development of a transit system with regular service connecting destinations within the city, to ACE and Valley Link stations, and to adjacent jurisdictions.
- LU-5.1: Require new development to be compatible and complementary to existing development. Where appropriate and feasible, promote connections between neighborhoods and services and facilities.
- LU-5.2: Prohibit the establishment or encroachment of incompatible uses into industrial-designated lands. Examples include, but are not limited to, new residential uses in areas designated for industrial development, which may be subject to existing and future nuisance impacts associated with industrial operations and associated activities.
- LU-5.3: Require that new residential development be designed to protect residents from potential conflicts with adjacent land uses, and other features including rail corridors, and high-volume roadways.
- LU-5.4: In industrial areas located within 1,000 feet of existing and planned sensitive receptors, promote industrial uses that are environmentally sustainable with limited potential to create nuisances such as noise and odors.
- LU-5.5: Ensure that industrial development projects, including warehouse, distribution, logistics, and fulfillment projects, mitigate adverse impacts (including health risks and

nuisances) to nearby residential land uses and other existing and planned sensitive receptors.

POLICIES – CIRCULATION ELEMENT

- CIR-1.2: Complete Streets. Consider all modes of travel in planning, design, and construction of all transportation projects to create safer, more livable, and more inviting environments for pedestrians, bicyclists, motorists and public transit users of all ages and capabilities.
- CIR-2.1: Bicycle and Pedestrian Networks. Establish a network of identified bicycle and pedestrian routes connecting residential areas with schools, recreation, shopping, and employment areas within the City.
- CIR-2.3: Safe Routes to School. Consider walking and bicycling school access as a priority over vehicular movements when any such conflicts occur.
- CIR-2.4: Transit Access. Provide safer, more convenient access to transit service including rail, bus, and paratransit.
- CIR-2.5: Amenities. To support bicycle, pedestrian, and transit usage, provide amenities including pedestrian-scale lighting, bicycle parking, shade trees and landscaping, and bus shelters and benches.
- CIR-4.1: Land Use Supporting Reduced VMT. Support land use with increased land use densities and mixed uses, consistent with the Land Use Element, to reduce vehicle miles traveled and promote the use of walking, biking, and transit.
- CIR-4.2: Demand Management. Encourage employers to provide programs for carpooling/transit/biking/walking, transit ridership subsidies, bicycle facilities, alternative work schedules, ridesharing, telecommuting, working at home, employee education, and preferential parking for carpools/vanpools.
- CIR-4.3: New Technologies. Monitor deployment of new transportation technologies and services and develop policies that implement best practices to ensure these technologies and services benefit the public and the multimodal transportation system.
- CIR-4.4: Electric Vehicle Charging. Support the creation of electric vehicle charging stations at multifamily residential, commercial, government, and other employment and community destinations.

POLICIES – RECREATION AND RESOURCES ELEMENT

- RR-6.1: Regional Standards. Coordinate planning efforts with the San Joaquin Valley Air Pollution Control District (SJVAPCD), San Joaquin Council of Governments, and the California Air Resource Board to meet local and regional air quality standards and ensure attainment of established goals.
- RR-6.2: Sensitive Receptors. Minimize the community's exposure to toxic and harmful air emissions and odors by requiring an adequate buffer or distance between residential and other sensitive receptors and industrial-type uses that typically generate air pollutants, toxic air contaminants, and/or obnoxious fumes or odors.
- RR-6.3: Construction Activities. Require new construction to minimize fugitive dust and construction vehicle emissions.

- RR-6.4: Development. Encourage the development of mixed-use residential opportunities and live-work environments within the City to lessen the impacts of traffic congestion on local air quality.
- RR-6.5: Appliances and Equipment. Require appliances and equipment, including wood-burning devices, in development projects to meet current standards for controlling air pollution, including particulate matter and toxic air contaminants.
- RR-6.6: Combustible Materials. Cooperate with the Air District to ensure that burning of any combustible material within the City is consistent with Air District regulations to minimize particulate air pollution.
- RR-6.7: Mitigation. Require the implementation of relevant mitigation measures for all future development upon identification of potential air quality impacts.
- RR-6.8: Local Reduction Targets. The City of Lathrop establishes the following per capita GHG reduction targets, in order to meet the requirements established by the state under AB 32 and SB 32, consistent with the CARB's 2017 Scoping Plan:
    - 3.99 MT CO2e per capita by 2030
    - 2.66 MT CO2e per capita by 2040; and
    - 1.33 MT CO2e per capita by 2050.
- RR-6.9: GHG Reduction. Consider, and implement as feasible, new policies and programs that will help to provide energy efficient alternatives to fossil fuel use and reduce consumption in order to reduce greenhouse gas emissions.
- RR-6.10 : Public Engagement. Promote regional air quality programs to inform the public on regional air quality concerns and encourage the engagement of all Lathrop residents in future planning decisions related to air quality.

IMPLEMENTATION ACTIONS – LAND USE ELEMENT

- LU-3.b: Work with adjacent jurisdictions to facilitate increased compatibility and access across barriers to travel such as discontinuous streets, bike lanes, sidewalks, and paths.
- LU-3.c: Work with developers, reclamation districts and utility providers to create or expand linear parks, trails, and publicly-accessible greenways along levees, drainage and utility rights-of-way that provide opportunities for greenway connections and passive recreational opportunities.
- LU-5b: Through the development review process, analyze land use compatibility and require adequate buffers and/or architectural enhancements to protect sensitive receptors from intrusion of development activities that may cause unwanted nuisances and health risks.
- LU-5c: When industrial projects, including warehouse projects, fulfillment centers, and other projects that may generate high volumes of truck trips and/or air quality emissions are proposed within 1,000 feet of existing or planned residential uses or other sensitive receptors, the City shall require the preparation of a Health Risk Assessment (HRA) that meets the standards established by the Office of Environmental Health Hazard Assessment (OEHHA), and the San Joaquin Valley Air Pollution Control District (SJVAPCD). Projects shall not be approved until it can be demonstrated that the project would not result in an exceedance of the established thresholds of significance for public health risks at nearby sensitive receptors.

- LU-5d: When industrial projects, including warehouse projects, fulfillment centers, and other projects that may generate high volumes of truck trips and/or air quality emissions are proposed within 1,000 feet of existing or planned residential uses or other sensitive receptors, the City shall require the implementation of best management practices (BMPs) to reduce pollution exposure to sensitive receptors, particularly diesel particulate matter (DPM). The appropriate BMPs shall be established on a case-by-case basis, and should consider the following tools, methods, and approaches:
    - Creating physical, structural, and/or vegetative buffers that adequately prevent or substantially reduce pollutant dispersal between warehouses and any areas where sensitive receptors are likely to be present, such as homes, schools, daycare centers, hospitals, community centers, and parks.
    - Providing adequate areas for on-site parking, on-site queuing, and truck check-in that prevent trucks and other vehicles from parking or idling on public streets.
    - Placing facility entry and exit points from the public street away from sensitive receptors, e.g., placing these points on the north side of the facility if sensitive receptors are adjacent to the south side of the facility. Exceptions can be made for emergency vehicle access (EVA) points.
    - Locating warehouse dock doors and other onsite areas with significant truck traffic and noise away from sensitive receptors.
    - Screening dock doors and onsite areas with significant truck traffic and noise with physical, structural, and/or vegetative barriers that adequately prevent or substantially reduce pollutant dispersal from the facility towards sensitive receptors.
    - Posting signs clearly showing the designated entry and exit points from the public street for trucks and service vehicles.
    - Posting signs indicating that all parking and maintenance of trucks must be conducted within designated on-site areas and not within the surrounding community or public streets.
- LU-5e: Update the Lathrop Municipal Code to include Good Neighbor Guidelines for Warehouse Distribution Facilities. The new Good Neighbor Guidelines should include:
    A. A definition of the type and size of facility that is subject to the Guidelines;
    B. Standards to minimize exposure to diesel emissions to sensitive receptors that are situated in close proximity to the proposed facility;
    C. Standards and practices that eliminate diesel trucks from unnecessarily traversing through residential neighborhoods;
    D. Standards and practices that eliminate trucks from using residential areas and repairing vehicles on the streets;
    E. Strategies to reduce and/or eliminate diesel idling within the facility's site;

IMPLEMENTATION ACTIONS – CIRCULATION ELEMENT

- CIR-1a: Review and revise roadway standards to establish complete streets standards addressing the following factors as applicable: number of travel lanes, lane width, medians,

drainage control, shoulder width, parking lanes, bike lanes, fire and emergency response standards, curb and gutter design, landscaped strips, and sidewalk width.

- CIR-1b: Require development projects to arrange streets in an interconnected pattern, so that pedestrians, bicyclists, and drivers are not forced onto arterial streets for inter- or intra-neighborhood travel. This approach will also increase the safety and efficiency of movement of emergency responders and reduce vehicle miles traveled within the community.
- CIR-1c: Apply signals, roundabouts, traffic circles and other traffic management techniques appropriately at residential and collector street intersections with collector and arterial streets in order to allow bicyclists and pedestrians to travel more conveniently and more safely from one neighborhood to another.
- CIR-1d: Use traffic calming tools to assist in implementing complete street principles; possible tools include roundabouts, raised intersections, curb extensions, reduced roadway width, and high visibility crosswalks.
- CIR-2a: Create an active transportation plan supporting the development of bicycle and pedestrian networks across the City and funding applications for bicycle and pedestrian improvements.
- CIR-2b: Add planned bicycle and pedestrian facilities in conjunction with road rehabilitation, reconstruction, or re-striping projects whenever feasible.
- CIR-2c: Enhance sidewalks to create a high-quality pedestrian environment, including wider sidewalks and improved pedestrian crossings, landscaping, buffers between sidewalks and vehicle travel lanes, enhanced pedestrian lighting, wayfinding signage, shade trees, and canopies, increased availability of benches, and other features.
- CIR-2d: Improve bicycle facilities to include attractive and secure bicycle parking, bicycle lanes, bike paths, and wayfinding signage along appropriate roadways.
- CIR-2e: Encourage and support the enhancement of transit stops with high quality, well-maintained shelters, and provision of wayfinding signage and transit timetables.
- CIR-2f: Provide access for bicycles and pedestrians at the ends of cul-de-sacs and through walls and berms, where right-of-way is available, to provide convenient access within and between neighborhoods and to encourage walking and bicycling to neighborhood destinations.
- CIR-2g: Ensure that development and infrastructure projects are designed to provide pedestrian and bicycle access and leave no gaps in the bicycle and pedestrian networks.
- CIR-2h: Require new development to provide bicycle parking and shower and locker facilities at commercial, business/professional and light industrial uses in accordance with the California Green Building Standards Code. Encourage existing uses to provide such facilities.
- CIR-2i: Require new multifamily developments to provide bicycle parking facilities in accordance with the California Green Building Standards Code. Encourage existing multifamily developments to provide such facilities.
- CIR-2j: Create an off-street shared-use path system for use by pedestrians and bicyclists for transportation and recreation.
- CIR-2k: Create bicycle and pedestrian connections to adjacent jurisdictions via shared use paths, bikeways, and sidewalks.
- CIR-2l: Create bicycle and pedestrian connections to the ACE station, planned Valley Link stations, and other transit stops.

- CIR-2m: Encourage transit providers to improve passenger pick-up and drop-off areas at the ACE and planned Valley Link stations to provide more convenient access.
- CIR-2n: Partner with neighboring jurisdictions and regional transit providers (including San Joaquin Regional Transit District, Manteca Transit, and Tracy TRACER Bus Services) to expand transit service between Lathrop and destinations in other jurisdictions.
- CIR-2o: Coordinate with transit providers and encourage them to enhance transit amenities for safe and comfortable access to transit including waiting areas, seating, landscaping, lighting, shade and rain cover, trash receptacles, and passenger loading zones.
- CIR-4a: Refine and update the City of Lathrop interim VMT thresholds and screening criteria to reflect the updated VMT analysis completed for the General Plan update if such updates are deemed necessary or warranted.
- CIR-4b: Evaluate the feasibility of a local or regional VMT impact fee program, bank, or exchange. Such an offset program, if determined feasible, would be administered by the City or a City-approved agency, and would offer demonstrated VMT reduction strategies through transportation demand management programs, impact fee programs, mitigation banks or exchange programs, in-lieu fee programs, or other land use project conditions that reduce VMT in a manner consistent with state guidance on VMT reduction. If, through on-site changes, a subject project cannot eliminate VMT impacts, the project could contribute on a pro-rata basis to a local or regional VMT reduction bank or exchange, as necessary, to reduce net VMT impacts.
- CIR-4c: Require proposed development projects that could have a potentially significant VMT impact to consider reasonable and feasible project modifications and other measures during the project design and environmental review stage of project development that would reduce VMT effects in a manner consistent with state guidance on VMT reduction.
- CIR-4d: Require development projects that employ 100 or more full-time equivalent employees to establish transportation demand management (TDM) programs consistent with San Joaquin Valley Air Pollution Control District requirements.
- CIR-4e: Partner with SJCOG on the Dibs program, which is the regional smart travel program, including rideshare, transit, walking, and biking.
- CIR-4f: As new transportation technologies and mobility services, including autonomous vehicles, electric vehicles, electric bicycles and scooters, and transportation network companies (e.g., Uber and Lyft) are implemented and used by the public, review and update City policies and plans to maximize the benefit to the public of such technologies and services without adversely affecting the City's transportation network. Updates to the City's policies and plans may cover topics such as electric vehicle charging stations, curb space management, changes in parking supply requirements, policies regarding electric scooter use, etc.
- CIR-4g: Encourage open data sharing. Anonymized data can improve the City's decision-making and help to develop more informed policies and plans while preserving people's privacy.
- CIR-4i: As part of the development of or participation in any ridesharing program, including for shared automated vehicle fleets, ensure that the program considers the safety needs of vulnerable populations and loading needs of seniors, families with children, and individuals with mobility impairments.

- CIR-4j: As need for transit grows, review and consider alternatives to conventional bus systems, such as smaller shuttle buses (micro-transit), on-demand transit services, or transportation networking company services that connect neighborhood centers to local activity centers with greater cost efficiency.
- CIR-4k: Require new development to incorporate electric vehicle charging in accordance with the California Green Building Standards Code. Encourage installation of electric vehicle charging stations at existing development.

IMPLEMENTATION ACTIONS – RECREATION AND RESOURCES ELEMENT

- RR-6a: Review development, infrastructure, and planning projects for consistency with SJVAPCD requirements during the CEQA review process. Require project applicants to prepare air quality analyses to address SJVAPCD and General Plan requirements, which include analysis and identification of:
    A. Air pollutant emissions associated with the project during construction, project operation, and cumulative conditions.
    B. Potential exposure of sensitive receptors to toxic air contaminants.
    C. Significant air quality impacts associated with the project for construction, project operation, and cumulative conditions.
    D. Mitigation measures to reduce significant impacts to less than significant or the maximum extent feasible where impacts cannot be mitigated to less than significant.
- RR-6b: Review all new industrial and commercial development projects for potential air quality impacts to residences and other sensitive receptors. Ensure that mitigation measures and best management practices are implemented to reduce significant emissions of criteria pollutants.
- RR-6c: Work with SJCOG and the SJVAPCD to implement plans and programs aimed at improving regional air quality.
- RR-6d: Continue to review development projects to ensure that all new public and private development complies with the California Code of Regulations (CCR), Title 24 standards as well as the energy efficiency standards established by the Lathrop Municipal Code.
- RR-6e: Monitor GHG emissions generated by the community over time for consistency with the established GHG reduction targets, and update the City's community GHG Inventory every five years. In the event that the City determines that ongoing efforts to reduce GHG emissions are not on track to meet the City's adopted GHG reduction targets, the City shall establish and adopt new and/or revised GHG reductions measures that will effectively meet the established GHG reduction targets.
- RR-6f: Continue the expansion of infrastructure to facilitate the use of City-owned low or zero emission vehicles such as electric vehicle charging facilities and conveniently located alternative fueling stations at key City facilities as operations necessitate and/or as funding becomes available.
- RR-6g: Evaluate and consider multi-modal transportation benefits to all City employees, such as free or low-cost monthly transit passes. Encourage employer participation in similar programs. Encourage new transit/shuttle services and use.

- RR-6h: Encourage community car-sharing and carpooling.
- RR-6i: Support the establishment and expansion of a regional network of electric vehicle charging stations and encourage the expanded use of electric vehicles.
- RR-6j: Establish and adopt standards and requirements for electric vehicle parking, including minimum requirements for the installation of electric vehicle charging stations in new multi-family residential and commercial, office, and light industrial development.
- RR-6k: Consider instituting a Green Building Program to reflect best practices, such as encouraging the use of cement substitutes and recycled building materials for new construction.
- RR-6l: Continue cooperating with the SJVAPCD by requiring a dust management plan to prevent fugitive dust from leaving the property boundaries and causing a public nuisance or a violation of an ambient air standard prior to construction and grading.

San Joaquin Valley Air Pollution Control District

The primary role of SJVAPCD is to develop plans and implement control measures in the SJVAB to control air pollution. These controls primarily affect stationary sources such as industry and power plants. Rules and regulations have been developed by SJVAPCD to control air pollution from a wide range of air pollution sources. SJVAPCD also provides uniform procedures for assessing potential air quality impacts of proposed projects and for preparing the air quality section of environmental documents.

AIR QUALITY PLANNING

The U.S. EPA requires states that have areas that do not meet the National AAQS to prepare and submit air quality plans showing how the National AAQS will be met. If the states cannot show how the National AAQS will be met, then the states must show progress toward meeting the National AAQS. These plans are referred to as the SIP. In October 2018, the CARB adopted the 2018 Updates to the California State Implementation Plan.

In addition, the CARB requires regions that do not meet California AAQS for ozone to submit clean air plans (CAPs) that describe measures to attain the standard or show progress toward attainment. To ensure federal CAA compliance, SJVAPCD is currently developing plans for meeting new National AAQS for ozone and $PM_{2.5}$ and the California AAQS for PM_{10} in the SJVAB (for California CAA compliance). The following describes the air plans prepared by the SJVAPCD.

8-HOUR OZONE PLAN

The SJVAPCD's Governing Board adopted the 2007 Ozone Plan on April 30, 2007. This far-reaching plan, with innovative measures and a "dual path" strategy, assures expeditious attainment of the federal 8-hour ozone standard as set by U.S. EPA in 1997. The CARB approved the plan on June 14, 2007. The U.S. EPA approved the 2007 Ozone Plan effective April 30, 2012. SJVAPCD adopted the 2016 Ozone Plan to address the federal 2008 8-hour ozone standard, which must be attained by end

of 2031.[14,15] More recently, a new ozone attainment plan is under development. Specifically, the 2022 Ozone Plan for the Attainment of the 2015 Federal 8-hour Ozone Standard is anticipated to be submitted in August 2022 to the U.S. EPA.

PM_{10} PLAN

Based on PM_{10} measurements from 2003 to 2006, the U.S. EPA found that the SJVAB has reached federal PM_{10} standards. On September 21, 2007, the SJVAPCD's Governing Board adopted the 2007 PM_{10} Maintenance Plan and Request for Redesignation. This plan demonstrated that the valley would continue to meet the PM_{10} standard. U.S. EPA approved the document and on September 25, 2008, the SJVAB was redesignated to attainment/maintenance (SJVAPCD, 2015).

PM2.5 PLAN

The SJVAPCD adopted the 2018 Plan for the 1997, 2006, and 2012 $PM_{2.5}$ Standards on November 15, 2018.[16] This plan addresses the U.S. EPA federal 1997 annual $PM_{2.5}$ standard of 15 µg/m³ and 24-hour $PM_{2.5}$ standard of 65 µg/m³; the 2006 24-hour $PM_{2.5}$ standard of 35 µg/m³; and the 2012 annual $PM_{2.5}$ standard of 12 µg/m³. This plan demonstrates attainment of the federal $PM_{2.5}$ standards as expeditiously as practicable (SJVAPCD, 2020).

All of the above-referenced plans include measures (i.e., federal, state, and local) that would be implemented through rule making or program funding to reduce air pollutant emissions in the SJVAB. Transportation control measures are part of these plans.

SJVAPCD RULES AND REGULATIONS

SJVAPCD Indirect Source Review

On December 15, 2005, SJVAPCD adopted the Indirect Source Review Rule (ISR or Rule 9510) to reduce ozone precursors (i.e., ROG and NOx) and PM_{10} emissions from new land use development projects. Specifically, Rule 9510 targets the indirect emissions from vehicles and construction equipment associated with these projects and applies to both construction and operational-related impacts. The rule applies to the proposed Project since it proposes more than 25,000 square feet of light industrial uses.

This rule requires the applicants of certain development projects which equal or exceed established applicability thresholds to apply to the SJVAPCD when applying for the development's last discretionary approval. Projects subject to the rule are required to quantify indirect emissions (mobile source emissions), area source emissions and construction exhaust emissions and to mitigate a portion of these emissions. The Indirect Source Rule was adopted December 2005 and

[14] SJVAPCD. Ozone Plans https://ww2.valleyair.org/rules-and-planning/air-quality-plans/ozone-plans/, accessed January 15, 2024.

[15] SJVAPCD. 2016 Plan for the 2008 8-Hour Ozone Standard, http://www.valleyair.org/Air_Quality_Plans/Ozone-Plan-2016.htm, accessed January 15, 2024.

[16] SJVAPCD. Particulate Matter Plans. http://valleyair.org/Air_Quality_Plans/PM_Plans.htm, accessed January 15, 2024.

last amended December 2017. Rule 9510 was adopted to reduce the impacts of growth in emissions from all new development in the San Joaquin Valley. Developers of projects subject to Rule 9510 must reduce emissions occurring during construction and operational phases through on-site measures or pay off-site mitigation fees. One hundred percent of all off-site mitigation fees are used by the SJVAPCD to fund emission reduction projects through its Incentive Programs, achieving emission reductions on behalf of the project. The emission reduction expected from the rule allow the SJVAPCD to achieve attainment of the federal air quality standards for ozone by 2037.

The rule requires all subject, nonexempt projects to mitigate both construction and operational period emissions by (1) applying feasible SJVAPCD-approved mitigation measures, or (2) paying any applicable fees to support programs that reduce emissions. Off-site emissions reduction fees (off-site fees) are required for projects that do not achieve the required emissions reductions through on-site emission reduction measures. Phased projects can defer payment of fees in accordance with an Off-site Emissions Reduction Fee Deferral Schedule (FDS) approved by the SJVAPCD.

To determine how an individual project would satisfy Rule 9510, each project would submit an air quality impact assessment (AIA) to the SJVAPCD as early as possible, but no later than prior to the project's final discretionary approval, to identify the project's baseline unmitigated emissions inventory for indirect sources: on-site exhaust emissions from construction activities and operational activities from mobile and area sources of emissions (excludes fugitive dust and permitted sources). Rule 9510 requires the following reductions, which are levels that the SJVAPCD has identified as necessary, based on its air quality management plans, to reach attainment for ozone and particulate matter:

Construction Equipment Emissions

The exhaust emissions for construction equipment greater than 50 horsepower (hp) used or associated with the development project shall be reduced by the following amounts from the statewide average as estimated by CARB:

- 20 percent of the total NOx emissions
- 45 percent of the total PM_{10} exhaust emissions

AIA mitigation strategies may include those that reduce construction emissions on-site by using less polluting construction equipment, which can be achieved by utilizing add-on controls, cleaner fuels, or newer, lower emitting equipment.

Operational Emissions

- NOx Emissions. Applicants shall reduce 33.3 percent of the project's operational baseline NOx emissions over a period of 10 years as quantified in the approved AIA.
- PM_{10} Emissions. Applicants shall reduce 50 percent of the project's operational baseline PM_{10} emissions over a period of 10 years as quantified in the approved AIA.

These requirements listed above can be met through any combination of on-site emissions reduction measures. In the event that a project cannot achieve the above standards through imposition of mitigation measures, then the project would be required to pay the applicable off-site

fees. These fees are used to fund various incentive programs that cover the purchase of new equipment, engine retrofit, and education and outreach.

Fugitive PM_{10} Prohibitions

SJVAPCD controls fugitive PM_{10} through Regulation VIII, Fugitive PM_{10} Prohibitions. The purpose of this regulation is to reduce ambient concentrations of PM_{10} and $PM_{2.5}$ by requiring actions to prevent, reduce, or mitigate anthropogenic (human caused) fugitive dust emissions.

- Regulation VIII, Rule 8021 applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on-site, and travel on access roads to and from the site.
- Regulation VIII, Rule 8031 applies to the outdoor handling, storage, and transport of any bulk material.
- Regulation VIII, Rule 8041 applies to sites where carryout or trackout has occurred or may occur on paved roads or the paved shoulders of public roads.
- Regulation VIII, Rule 8051 applies to any open area having 0.5 acre or more within urban areas or 3.0 acres or more within rural areas, and contains at least 1,000 square feet of disturbed surface area.
- Regulation VIII, Rule 8061 applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.
- Regulation VIII, Rule 8071 applies to any unpaved vehicle/equipment traffic area.
- Regulation VIII, Rule 8081 applies to off-field agricultural sources.

Sources regulated are required to provide Dust Control Plans that meet the regulation requirements. Under Rule 8021, a Dust Control Plan is required for any residential project that will include 10 or more acres of disturbed surface area, a nonresidential project with 5 or more acres of disturbed surface area, or a project that relocates 2,500 cubic yards per day of bulk materials for at least three days. The Dust Control Plan is required to be submitted to SJVAPCD prior to the start of any construction activity. The Dust Control Plan must also describe fugitive dust control measures to be implemented before, during, and after any dust-generating activity.

Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations

If asphalt paving will be used, then paving operations of the proposed Project will be subject to Rule 4641. This rule applies to the manufacture and use of cutback asphalt, slow cure asphalt and emulsified asphalt for paving and maintenance operations.

Nuisance Odors

SJVAPCD controls nuisance odors through implementation of Rule 4102, Nuisance. Pursuant to this rule, "a person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health, or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property."

Employer Based Trip Reduction Program

SJVAPCD has implemented Rule 9410, Employer Based Trip Reduction. The purpose of this rule is to reduce vehicle miles traveled (VMT) from private vehicles used by employees to commute to and from their worksites to reduce emissions of NOx, ROG, and particulate matter (PM_{10} and $PM_{2.5}$). The rule applies to employers with at least 100 employees. Employers are required to implement an Employer Trip Reduction Implementation Plan (ETRIP) for each worksite with 100 or more eligible employees to meet applicable targets specified in the rule. Employers are required to facilitate the participation of the development of ETRIPs by providing information to their employees explaining the requirements and applicability of this rule. Employers are required to prepare and submit an ETRIP for each worksite to the District. The ETRIP must be updated annually. Under this rule, employers shall collect information on the modes of transportation used for each eligible employee's commutes both to and from work for every day of the commute verification period, as defined in using either the mandatory commute verification method or a representative survey method. Annual reporting includes the results of the commute verification for the previous calendar year along with the measures implemented as outlined in the ETRIP and, if necessary, any updates to the ETRIP.

Visible Emissions

SJVAPCD controls visible emissions through Rule 4101, Visible Emissions. The purpose of this regulation is to prohibit visible air contaminants in the atmosphere. This rule requires that a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:

- As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines.
- Of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of this rule.

Architectural Coatings

The purpose of SJVAPCD Rule 4601 is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.

3.3.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with air quality if it will:

- Conflict with or obstruct implementation of the applicable air quality plan;

- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; and/or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

APPROACH TO ANALYSIS

While the final determination of whether a project is significant is within the purview of the Lead Agency pursuant to Section 15064(b) of the CEQA Guidelines, the SJVAPCD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the Lead Agency finds that the project would exceed these air pollution thresholds, the project should be considered to have significant air quality impacts. The applicable SJVAPCD thresholds and methodologies are contained under each impact statement below, as the City, in its discretion, has determined to utilize these thresholds and methodologies, which are based on scientific and factual data.

This analysis was performed consistent with the guidance and methodologies provided by the SJVAPCD's GAMAQI.[17] Based on the SJVAPCD New Source Review (NSR) offset requirements for stationary sources, the SJVAPCD has established thresholds of significance for criteria pollutant emissions, shown in Table 3.3-6. These thresholds apply to the project because these air pollutants would be generated during project construction and operation and constitute criteria pollutants or precursor emissions for criteria pollutants, which are regulated by the federal and State Clean Air Acts.

TABLE 3.3-6: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT SIGNIFICANCE THRESHOLDS

POLLUTANT	*CONSTRUCTION THRESHOLDS (TPY)*	*OPERATIONAL THRESHOLDS (TPY)*
ROG	10	10
NOx	10	10
CO	100	100
SOx	27	27
PM_{10}	15	15
$PM_{2.5}$	15	15

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE: HTTPS://WWW.VALLEYAIR.ORG/TRANSPORTATION/CEQA%20RULES/GAMAQI%20JAN%202002%20REV.PDF ACCESSED JUNE 8, 2022.

[17] San Joaquin Valley Air Pollution Control District (SJVAPCD). 2015. Guidance for Assessing and Mitigating Air Quality Impact. Website: https://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf Accessed June 8, 2022.

The SJVAPCD has also established significance thresholds to assess the impacts of project-related construction and operational emissions on regional and local ambient air quality. Table 3.3-7 shows the daily mass emissions screening criteria for construction and operation as adopted by the SJVAPCD for CAP and TAC emissions. The analysis summarized in this report estimates project-related construction and operational mass emissions and compares the emissions to these significance thresholds.

TABLE 3.3-7: SJVAPCD DAILY MASS EMISSIONS SCREENING CRITERIA

POLLUTANT	*CONSTRUCTION THRESHOLDS (POUNDS PER DAY)*	*OPERATIONAL THRESHOLDS (POUNDS PER DAY)*
ROG	100	100
NOx	100	100
CO	100	100
SOx	100	100
PM_{10}	100	100
$PM_{2.5}$	100	100

SOURCES: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD). 2015. GUIDANCE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACT. WEBSITE: HTTPS://WWW.VALLEYAIR.ORG/TRANSPORTATION/CEQA%20RULES/GAMAQI%20JAN%202002%20REV.PDF ACCESSED DECEMBER 20, 2023.

The daily mass emissions screening criteria provided in Table 3.3-7 represent screening-level thresholds that can be used to evaluate whether project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed those thresholds, modeling would be required to demonstrate that the project's total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels.

CRITERIA POLLUTANT EMISSIONS MODELING

California Emission Estimator Model (CalEEMod)™ (v.2022.1), developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with California air districts, was used to estimate emissions for the proposed Project. Project construction was assumed to commence in late 2024 and be completed in early 2026. However, the exact timing of Project construction would depend on Project needs, availability of materials and more.

The land use assumptions for the modeling are: Gasoline/Service Station – 16 pumps; Gasoline Service Station – 8 pumps; Strip Mall – 16,688 square feet; Automobile Care Center – 13,846 square feet; and Other Asphalt Surfaces - 18.85125353 acres. Land uses were selected on a best-fit basis, and are consistent with the land use assumptions made by Fehr & Peers in their Transportation Analysis Report (2023) for the proposed Project. Total development acres were assumed to be 19.63 acres, consistent with the Development Area for the proposed Project. Vehicle trips, vehicle miles traveled (VMT), and fleet mix estimates in the modeling are consistent with those provided by Fehr & Peers in its traffic analysis (see Appendix F of the Draft EIR for further detail).

The construction phase details are provided in Table 3.3-8, below, which is based on CalEEMod default phases based on the Project's land uses. See Appendix A.1 of this Draft EIR for further detail.

TABLE 3.3-8: ANTICIPATED CONSTRUCTION SCHEDULE

CALEEMOD PHASE	*CALEEMOD PHASE START DATE*	*CALEEMOD PHASE END DATE*
Site Preparation	9/30/2024	10/14/2024
Grading	10/15/2024	11/26/2024
Building Construction	11/27/2024	1/21/2026
Paving	1/22/2026	2/19/2026
Architectural Coating	2/20/2026	3/20/2026

SOURCE: CALEEMOD, 2023.

Separately, it was assumed that there would be no soil import or export, based on the Project applicant's stated intent to balance soil on-site.

IMPACTS AND MITIGATION MEASURES

Impact 3.3-1: Project operation could conflict with or obstruct implementation of the District's air quality plan. (Significant and Unavoidable)

The CEQA Guidelines indicate that a significant impact would occur if the proposed Project would conflict with or obstruct implementation of the applicable Air Quality Attainment Plan (AQAP). The CARB has developed a three-step approach to determine project conformity with the applicable AQAP:

- *Determination that an AQAP is being implemented in the area where the project is being proposed.*
- *The proposed project must be consistent with the growth assumptions of the applicable AQAP.*
- *The project must contain in its design all reasonably available and feasible air quality control measures.*

The proposed Project is in conformance with the AQAP, based on these criteria, as follows:

- *Determination that an AQAP is being implemented in the area where the project is being proposed.*

The SJVAPCD has implemented the current, modified 2016 8-hour AQAP as approved by CARB and approved by USEPA for the 2008 8-hour O_3 standard.

- *The proposed project must be consistent with the growth assumptions of the applicable AQAP.*

The San Joaquin Council of Governments (SJCOG) Regional Transportation Plan (RTP)/Sustainable Communities Strategy (SCS) growth projections provide for future employment/population factors. The development of the SJVAPCD AQAP is based in part on the land use general plan projections of

the various cities and counties that constitute the Air Basin. The proposed Project would require a General Plan Amendment to the City's Land Use Map to change land uses on the Project site. Changes to the Land Use Map would include changing the General land use designation for APN 191-250-06 from A/G (County) to FC (City). However, most of the Project site is already designated as FC, which the Project would be consistent with. Therefore, the proposed Project, which involves the development of regional travel serving uses, is consistent with the majority of the Project site's existing General Plan land use designation and therefore most of its traffic would be included in volumes projected for analysis of the General Plan. Moreover, as described in further detail under Impact 3.3-2, below, the proposed Project would not exceed any of the SJVAPCD's thresholds for criteria pollutants.

The SJVAPCD AQAP is based on the growth assumptions of the City of Tracy General Plan and SJCOG RTP/SCS. Since the Project would be consistent with the SJCOG RTP/SCS, and SJCOG RTP/SCS projections are incorporated into the SIP, the Project is also considered consistent with the SIP.

- *The project must contain in its design all reasonably available and feasible air quality control measures.*

The Project incorporates various policy and rule-required implementation measures that would reduce related emissions, including all of the current Air District rules and regulations.[18] For example, the proposed Project would be required to implement Air District Rule 9510, which ensures that the Project would fulfill the Air District's emissions reduction commitments in the relevant PM_{10} and Ozone Attainment plans.[19] In addition, the Project would comply with all applicable stationary source permitting rules implemented by SJVAPCD, which further confirms the Project would not cause or contribute to any ambient air quality standard exceedances.

Overall, the proposed Project is not anticipated to conflict with or obstruct implementation of the AQAP. However, since a portion of the Project would require a General Plan land use amendment for a portion of the Project site, out of an abundance of caution, this impact is considered to be ***significant and unavoidable***.

Impact 3.3-2: The proposed Project would not result in a cumulatively considerable net increase of a criteria pollutant for which the region is in nonattainment under an applicable federal or State ambient air quality standard. (Less than Significant)

If an area is in nonattainment for a criteria pollutant, then the background concentration of that pollutant has historically exceeded the ambient air quality standard. It follows that if a Project exceeds the regional threshold for that nonattainment pollutant, then it would result in a cumulatively considerable net increase of that pollutant and result in a significant cumulative impact.

[18] See here for further detail: https://www.valleyair.org/rules/1ruleslist.htm

[19] Compliance with Air District Rule 9510 is assumed under CEQA.

The Air Basin is in nonattainment for PM_{10}, $PM_{2.5}$, and ozone. Therefore, if the proposed Project exceeds the regional thresholds for PM_{10}, or $PM_{2.5}$, then it would contribute to a cumulatively considerable impact for those pollutants. If the proposed Project exceeds the regional threshold for NOx or VOC (which are precursors to ozone), then it follows that the proposed Project would result in a cumulatively considerable contribution and thus result in a significant cumulative impact for ozone.

Regional emissions include those generated from all on-site and off-site activities. Regional significance thresholds have been established by the SJVAPCD because emissions from projects in the Air Basin can potentially contribute to the existing emission burden and possibly affect the attainment and maintenance of ambient air quality standards. Projects within the Air Basin with regional emissions that exceed any of the thresholds presented previously are considered to have a significant regional air quality impact.

CONSTRUCTION EMISSIONS

Emissions from construction activities represent temporary impacts that are typically short in duration, depending on the size, phasing, and type of project. Construction-related activities would result in Project-generated emissions from site preparation, grading, paving, building construction, and architectural coatings. CalEEMod™ (v.2022.1) was used to estimate construction emissions for the proposed Project. Table 3.3-9, below, provides the construction criteria pollutant emissions and thresholds associated with implementation of the proposed Project. It should be noted that the SJVAPCD recommends the same criteria pollutant thresholds for both construction and operational emissions, as provided within the *SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts* (2015).

TABLE 3.3-9: CONSTRUCTION PROJECT GENERATED EMISSIONS (TONS PER YEAR)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	**100**	**10**	**10**	**27**	**15**	**15**
YEAR 2024	0.81	0.84	0.09	<0.005	0.28	0.14
YEAR 2025	1.77	1.39	0.15	<0.005	0.07	0.06
YEAR 2026	0.22	0.16	0.24	<0.005	0.01	0.01
MAXIMUM EMISSIONS	**1.77**	**1.39**	**0.24**	**<0.005**	**0.28**	**0.14**
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

Additionally, the SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-10) provides the proposed Project's construction emissions in pounds per day in comparison to these screening thresholds.

TABLE 3.3-10: CONSTRUCTION PROJECT GENERATED EMISSIONS (POUNDS PER DAY)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD (POUNDS/DAY)	**100**	**100**	**100**	**100**	**100**	**100**
YEAR 2024	32.9	36	3.65	0.06	1.6	1.47
YEAR 2025	13	10.4	1.13	0.02	0.43	0.4
YEAR 2026	13	9.85	1.07	0.02	0.38	0.35
MAXIMUM EMISSIONS	**32.9**	**36**	**3.65**	**0.06**	**1.6**	**1.47**
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE.

If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for construction-generated emissions, the proposed Project would have a significant impact on air quality. As shown in Table 3.3-9, the proposed Project would not exceed the SJVAPCD thresholds of significance for construction criteria pollutants. As shown in Table 3.3-10, the proposed Project would also not exceed the daily mass screening criteria thresholds during Project construction. Therefore, the Project's construction-related criteria pollutant emissions would be considered to have a ***less than significant*** impact.

OPERATIONAL EMISSIONS

The SJVAPCD is tasked with implementing programs and regulations required by the FCAA and the CCAA. 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 its *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," and also to not have a cumulatively considerable net increase of a criteria pollutant for which the project region is in non-attainment. If the proposed Project's emissions exceed the SJVAPCD's threshold of significance for operational-generated emissions, the proposed Project will have a significant impact on air quality and all feasible mitigation measures must be implemented to reduce emissions.

Mobile source emissions will be generated by the Project due to the vehicle travel expected to occur to and from the Project site. According to the Traffic Analysis (Fehr & Peers) (as provided in Appendix F of the Draft EIR), the proposed Project is anticipated to generate approximately 2,790 passenger vehicle trips and 700 heavy-duty truck trips per day. Additionally, Fehr & Peers identified that the proposed Project would generate approximately 10,700 and 8,890 daily VMT for passenger vehicles and heavy-duty trucks, respectively.

CalEEMod™ (v.2022.1) was used to model operational emissions of the proposed Project. Table 3.3-11 and Table 3.3-12 show proposed Project emissions as provided by CalEEMod in tons per year and pounds per day, respectively. As shown in Table 3.3-11 below, total Project operational emissions would not exceed any of the SJVACPD thresholds of significance, in terms of tons per day.

TABLE 3.3-11: OPERATIONAL PROJECT GENERATED EMISSIONS (TONS PER YEAR)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD	**100**	**10**	**10**	**27**	**15**	**15**
EMISSIONS – TOTAL PROJECT	13.2	5.83	2.15	0.05	2.69	0.74
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

The SJVAPCD has developed daily mass emissions screening criteria for ROG, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ to determine whether project emissions would result in a violation of an AAQS. Because the NAAQS and CAAQS are concentration-based standards, Project emissions were evaluated using the SJVAPCD mass emissions screening approach, which provides a preliminary assessment to determine whether a project would contribute to a violation of an AAQS. The screening is conducted by evaluating daily Project emissions against a 100 pound per day threshold for each criteria air pollutant. The following table (Table 3.3-12) provides the proposed Project's operational emissions in pounds per day in comparison to these screening thresholds. As shown in Table 3.3-12, the proposed Project's operational emissions would not exceed any of the daily mass screening criteria thresholds.

TABLE 3.3-12: OPERATIONAL PROJECT GENERATED EMISSIONS (POUNDS PER DAY)

POLLUTANT	*CO*	*NOX*	*ROG*	*SOX*	*PM_{10}*	*$PM_{2.5}$*
THRESHOLD (POUNDS/DAY)	100	100	100	100	100	100
EMISSIONS – TOTAL PROJECT	6.3	2.0	1.9	0.0	0.9	0.3
EXCEEDS THRESHOLD?	**N**	**N**	**N**	**N**	**N**	**N**

SOURCES: CALEEMOD (V.2022.1)

NOTE: EMISSIONS ONLY INCLUDE THOSE EMISSIONS THAT ARE CONSIDERED "ON-SITE", PER SJVAPCD GUIDANCE. THIS EXCLUDES "MOBILE" EMISSIONS, EXCEPT FOR APPROXIMATELY 5.9% OF MOBILE EMISSIONS THAT ARE ESTIMATED TO BE ON-SITE, USING A CONSERVATIVE ESTIMATE OF THE ON-SITE MOBILE TRAVEL (0.33 MILES) DIVIDED BY THE AVERAGE VEHICLE TRIP LENGTH MODELED FOR THE PROJECT OF 5.61 MILES.

The emission estimates provided in Table 3.3-13 and Table 3.3-14 demonstrate a reasonable worst-case scenario for Project operation. Because the operational emissions shown therein would be below the SJVAPCD's significance threshold, this impact would be ***less than significant***.

REGULATORY COMPLIANCE

Prior to the issuance of a Grading Permit for each phase of the Project, the Project Proponent would be required to prepare and submit a Dust Control Plan that meets all of the applicable requirements of APCD Rule 8021, Section 6.3. Additionally, the Project would be required to implement dust control measures that include application of water or chemical dust suppressants to unpaved roads and graded areas, covering or stabilization of transported bulk materials, prevention of carryout or trackout of soil materials to public roads, limiting the area subject to soil disturbance, construction of wind barriers, access restrictions to inactive sites, as required by the applicable rules. The Project

would also be required to, during all construction activities, implement the dust control practices identified in Tables 6-2 and 6-3 of the GAMAQI (2002).

PROJECT EFFECTS ON PUBLIC HEALTH

San Joaquin County has a state designation of Nonattainment for ozone, PM_{10} and $PM_{2.5}$. The SJVAPCD developed these Project-level thresholds based on the emissions that would exceed a CAAQS or contribute substantially to an existing or projected violation of a CAAQS. Ambient levels of these criteria pollutants are likely to decrease in the future, based on current and future implementation of federal and/or state regulatory requirements, such as improvements to the statewide vehicle fleet over time (including the long-term replacement of internal combustion engine vehicles with electric vehicles in coming decades).

It should be noted that the emissions of ozone precursors such as ROG and NO_x attributable to the proposed Project would not be substantial enough on a regional basis for the City to be able, with currently available technical tools, to predict how the emissions of such pollutants would translate into either physical environmental changes, such as measurable effects on ambient ozone concentrations within the air basin, or health effects, such as increased respiratory problems, within any discrete population within the City or the region. Such an analysis is not reasonably feasible within the meaning of CEQA because it would require a level of speculation.

Ozone

O_3 is not emitted directly into the air but is formed through complex chemical reactions between precursor emissions of volatile organic compounds (VOC) (also known as ROG) and oxides of nitrogen (NO_x) in the presence of sunlight. The reactivity of O_3 causes health problems because it damages lung tissue, reduces lung function, and sensitizes the lungs to other irritants. Scientific evidence indicates that ambient levels of O_3 not only affect people with impaired respiratory systems, such as asthmatics, but healthy adults and children as well. Exposure to O_3 for several hours at relatively low concentrations has been found to significantly reduce lung function and induce respiratory inflammation in normal, healthy people during exercise. This decrease in lung function generally is accompanied by symptoms including chest pain, coughing, sneezing and pulmonary congestion.

Studies show associations between short-term ozone exposure and non-accidental mortality, including deaths from respiratory issues. Studies also suggest long-term exposure to ozone may increase the risk of respiratory-related deaths (U.S. Environmental Protection Agency 2022a). The concentration of ozone at which health effects are observed depends on an individual's sensitivity, level of exertion (i.e., breathing rate), and duration of exposure. Studies show large individual differences in the intensity of symptomatic responses, with one study finding no symptoms to the least responsive individual after a 2-hour exposure to 400 parts per billion of ozone and a 50 percent decrement in forced airway volume in the most responsive individual. Although the results vary, evidence suggest that sensitive populations (e.g., asthmatics) may be affected on days when the 8-hour maximum ozone concentration reaches 80 parts per billion (U.S. Environmental Protection Agency 2022b).

The Project would generate emissions of ROG and NOx during Project operational activities, as shown in Table 3.3-9 through Table 3.3-12. Increases in ROG and NOx could affect people with impaired respiratory systems, but also healthy adults and children. Neither ROG nor NOx would exceed the applicable air district criteria pollutant thresholds. ROG and NOx during Project operation would be primarily due to the operational mobile vehicles generated by the Project, but also substantially due to the use of consumer products (such as cleaning supplies, kitchen aerosols, cosmetics, and toiletries) by residents of the Project site. Consumer products are known to generate ROG through off-gassing. Such increases in ROG could fuel potential increases in health effects due to exposure to ozone.

Particulate Matter

Based on studies of human populations exposed to high concentrations of particles (sometimes in the presence of SO_2) and laboratory studies of animals and humans, PM can cause major effects of concern for human health. These include effects on breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular disease, alterations in the body's defense systems against foreign materials, damage to lung tissue, carcinogenesis, and premature death. Small particulate pollution has health impacts even at very low concentrations – indeed no threshold has been identified below which no damage to health is observed. The major subgroups of the population that appear to be most sensitive to the effects of particulate matter include individuals with chronic obstructive pulmonary or cardiovascular disease or influenza, asthmatics, the elderly, and children.

Numerous studies have linked PM exposure to premature death in people with preexisting heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms. Studies show that every 1 microgram per cubic meter reduction in $PM_{2.5}$ results in a one percent reduction in mortality rate for individuals over 30 years old (Bay Area Air Quality Management District, 2017). Long-term exposures, such as those experienced by people living for many years in areas with high particle levels, have been associated with problems such as reduced lung function and the development of chronic bronchitis – and even premature death. Additionally, depending on its composition, both PM_{10} and $PM_{2.5}$ can also affect water quality and acidity, deplete soil nutrients, damage sensitive forests and crops, affect ecosystem diversity, and contribute to acid rain (U.S. Environmental Protection Agency 2022c).

The Project would generate emissions of PM during Project operational activities. Although the exact effects of such emissions on local health are not known, it is likely that the increases in PM generated by the proposed Project would be minimal, even for people with impaired respiratory systems, located in the immediate vicinity of the Project site. The increases of these pollutants generated by the proposed Project would not on their own generate an increase in the number of days exceeding the NAAQS or CAAQS standards. In addition, because PM generated by the proposed Project is less than the air district's threshold, and based on the nature of the Project and its size, such emissions when combined with the existing PM emitted regionally would have minimal health effect on people located in the immediate vicinity of the Project site.

UFPs are a subset of PM and represent a health concern. Such particles have been shown to have the potential for even greater health effects than PM_{10} or $PM_{2.5}$, due to their even smaller particle

sizes. However, there are no adopted rules or regulations by the U.S. EPA or California air districts regarding UFPs. Moreover, attainment status related to UFPs is not monitored by the U.S. EPA or California air districts, and the SJVAPCD does not provide any guidance for assessment, thresholds, or mitigation associated with UFPs. Additionally, air districts are not required to be monitor UFPs. Nevertheless, funding for harm reduction and monitoring of UFPs is occurring throughout California. For example, the Bay Area Air Quality Management District (BAAQMD), a neighboring air district, established in 2011 a comprehensive program to study UFPs. As part of this program, the BAAQMD began making measurements at four air monitoring stations, with additional monitoring stations expected to be online soon. At each station, the number of particles in a specified volume of air is counted every second. In addition to the number counts, sampling began in 2015 at two stations to gather data on UFP composition. Collected samples are analyzed for nineteen metals. Data obtained from these measurements is used to identify major UFP sources in the San Francisco Bay Area, and to evaluate models and refine estimates of UFP's public health impact.[20] Separately, the SJVAPCD provides grant funding for off-road engine projects through their grants and incentives programs, which reduce UFPs[21]; the U.S. EPA Pacific Southwest region has provided funding for both the South Coast Air Quality Management District and the San Joaquin Valley Air Pollution Control District to help spur early-stage, innovative technologies that need further testing and demonstration prior to massive deployment and commercialization of California Clean Air Initiative (CATI) projects.[22] Examples of such projects include Hybrid Natural Gas-Electric and Fully Electric Class 8 Trucks, Zero Emission Heavy-Duty Electric Trucks, Zero- and Near-Zero Emission School Buses, Electric Delivery Trucks, and School Bus Air Filtration. Other, numerous efforts are underway throughout the state to reduce PM emissions, which also tend to reduce emissions of UFPs (since UFPs are a subset of PM).

Different sources of PM generate differing levels of UFPs. For example, almost all the PM emitted by natural gas combustion is in the $PM_{0.1}$ size fraction, whereas this is only true for less than half of the PM emitted by gasoline and diesel fuel combustion.[23] Therefore, estimating $PM_{0.1}$ can be difficult, given that it is not incorporated into the modeling software recommended by the CARB and the California air districts (i.e. CalEEMod). Nevertheless, a quantitative estimate of the Project's $PM_{0.1}$ is provided under Impact 3.3-3, based on assumptions provided in available literature.

Discussion

SJVAPCD has not established any methodology or thresholds (quantitative or qualitative) for assessing the health effects from criteria pollutants. Given the nature and size of the Project, a qualitative approach to correlating the expected air quality emissions of Projects to the likely health consequences of the increased emissions is appropriate. From a qualitative perspective, it is well documented from scientific studies that criteria pollutants can have adverse health effects. The federal and state governments have established the NAAQS or CAAQS as an attempt to regionally,

[20] See: https://www.baaqmd.gov/about-air-quality/air-quality-measurement/special-air-monitoring-projects/special-reports/ultrafine-particulate-matter?sc_lang=en&switch_lang=true

[21] See: https://ww2.valleyair.org/grants/

[22] See: https://www.epa.gov/cati/california-clean-air-technology-initiative-cati-projects

[23] Venecek, M. A., Yu, X., and Kleeman, M. J.: Predicted ultrafine particulate matter source contribution across the continental United States during summertime air pollution events, Atmos. Chem. Phys., 19, 9399–9412, https://doi.org/10.5194/acp-19-9399-2019, 2019.

and cumulatively, assess and control the health effects that criteria pollutants have within Air Basins. It is anticipated that public health will continue to be affected by the emission of criteria pollutants, especially by those with impaired respiratory systems in the City of Lathrop and the surrounding region so long as the region does not attain the CAAQS or NAAQS. The Project's emissions would make a cumulatively considerable contribution to the region's exceedances of the CAAQS or NAAQS for ozone, and therefore would be expected to significant and unavoidable health effect on people located in the immediate vicinity of the Project site.

CONCLUSION

Criteria pollutant emissions generated by the proposed Project during construction and operation would not exceed applicable thresholds after compliance with all rules and regulations. Therefore, this impact would be ***less than significant***.

Impact 3.3-3: The proposed Project could expose sensitive receptors to substantial pollutant concentrations. (Significant and Unavoidable)

TOXIC AIR CONTAMINANTS

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. The SJVAPCD considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools. There are no traditional sensitive receptors such as residences, convalescent facilities, or schools that are proposed as part of the proposed Project. The closest residential receptors to the Project are located as follows:

- The residence located directly south of the Project site, at 11401 Manthey Road;
- Additional residences located south of the Project site, approximately 350 feet south of the southeast boundary of the Project site, also located along Manthey Road;
- Several residences located to the southwest of the Project site, along Manila Road;
- Residences located adjacent to the northern boundary of the Project site, along Manthey Road;
- An additional residence located 1,000 feet to the north of the Project site, along Manthey Road;
- An additional residence located approximately 1,150 feet to the northwest of the northwest boundary of the Project site, along Briggs Avenue;
- Several residences located along Harlan Road, east of I-5, to the east of the Project site.

Additionally, workplace receptors are considered to be located throughout the entirety of the Project site, as required to be analyzed by the SJVAPCD.

Heavy-duty trucks are a common source of Diesel Particulate Matter (DPM), in contrast to passenger vehicles (such as light-duty cars and trucks). The inhalation of DPM generates cancer and non-cancer health risks, especially where concentrations are elevated for long periods of time and for younger sensitive receptors. The SJVAPCD's GAMAQI (SJVAPCD, 2015) includes procedures for evaluating hazardous air pollutants. The Project would also generate truck trips that contain Truck Refrigeration Units (TRUs), which also generate DPM. Furthermore, gasoline refueling, storage, spillage and tank breathing would generate benzene emissions. Based on the guidance provided in the GAMAQI, an air toxics health impact analysis has been prepared for the proposed Project to analyze the Project's anticipated impacts from diesel exhaust emitted by heavy-duty trucks and truck TRUs, as well as benzene emissions from gasoline-related activities, during Project operation.

An air toxics health risk assessment was conducted utilizing Lakes Environmental Software AERMOD and the CARB's Hotspots Analysis Reporting Program Version 2 (HARP 2) Air Dispersion, Modelling, and Risk Tool (ADMRT) for the DPM associated with the heavy-duty trucks. Emissions associated with truck idling and truck on-site travel were calculated. The maximum residential (70-year exposure) cancer, workplace (40-year exposure) cancer, chronic (non-cancer), and acute (non-cancer) risks were assessed and compared to SVJAPCD thresholds. See Appendix A.3 of this Recirculated Draft EIR for full model inputs. Table 3.3-15 summarizes the results of the analysis.

Separately, Project construction would generate DPM emissions from the use of off-road diesel equipment required. The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards).

The use of diesel-powered construction equipment would be temporary and episodic. The duration of exposure would be short and exhaust from construction equipment would dissipate rapidly. Current models and methodologies for conducting health risk assessments are associated with longer-term exposure periods of 9, 30, and 70 years, which do not correlate well with the temporary and highly variable nature of construction activities. Given that construction is anticipated to occur over the course of approximately two years, construction health risks associated with construction of this timeframe were evaluated. See Appendix A.3 for further detail.

The California Office of Environmental Health Hazard Assessment has not identified short-term health effects from DPM. Construction activities would be subject to and would comply with California regulations limiting the idling of heavy-duty construction equipment to no more than five minutes to further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions.

The maximum residential cancer risk would occur at a residence located at 11401 Manthey Road, located directly adjacent to the Project site to the south, would have a residential cancer risk of approximately 28.6 per million. The maximum workplace cancer risk would occur within the central portion of the Project site, located around the gasoline pumps. The maximum workplace cancer risk would occur at the central portion of the Project site, around the gasoline fueling station, with a maximum risk of up approximately 5.9 per million (at the location of maximum workplace cancer risk). Although the workplace cancer risk would be below the applicable SJVAPCD threshold, the

residential cancer risk would be above this threshold. As shown in Table 3.3-15, the proposed Project, in and of itself, could not result in a significant increased exposure of receptors to localized concentrations of TACs for the residential located at 11401 Manthey Road. Further detail is provided in the Health Risk Assessment provided in Appendix A.3. Therefore, implementation of the proposed Project is considered to have the potential to cause a ***significant and unavoidable*** impact relative to this topic.

TABLE 3.3-13: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	*MAXIMUM RISK*	*SIGNIFICANCE THRESHOLD*	*IS THRESHOLD EXCEEDED?*
OPERATIONAL			
Residential Cancer Risk (70-year exposure)	28.6 per million	20 per million	No
Workplace Cancer Risk (40-year exposure)	5.9 per million	20 per million	No
Chronic (non-cancer)	0.12	Hazard Index ≥1	No
Acute (non-cancer) [1]	0.24	Hazard Index ≥1	No

SOURCES: AERMOD 12.0.0 (LAKES ENVIRONMENTAL SOFTWARE, 2023); AND HARP-2 AIR DISPERSION AND RISK TOOL (VERSION 22118).

It should be noted that the mobile vehicles generated by the Project during operation would also generate UFPs through vehicle emissions, braking, and tire wear. Similar to PM in general (though generating even higher risk per unit than larger particle sizes) UFPs are notable for their potential to generate chronic risks associated with cardiovascular disease, potential long-term loss of long-function, and cancer. According to a recent study prepared for the European Geosciences Union, UFPs vary widely as a proportion of PM overall, depending on location; specifically, the $PM_{0.1}$ to $PM_{2.5}$ ratio analyzed in approximately 39 cities in the United States varied from approximately 1% to 16%.[24] These factors vary so widely because the sources of $PM_{0.1}$ vary substantially from city to city. For example, cities that are located close to substantial sources of natural gas combustion have higher $PM_{0.1}$ to $PM_{2.5}$ ratios, since almost all the PM emitted by natural gas combustion is in the $PM_{0.1}$ size fraction, whereas this is only true for less than half of the PM emitted by gasoline and diesel fuel combustion. Taken together, these facts support the potential importance of natural gas combustion for ambient $PM_{0.1}$ concentrations. The city analyzed in the study with the greatest similarity to the City of Lathrop (i.e. where the Project is located) was the City of Bakersfield, given its similarity in location within the Central Valley region. The ratio of $PM_{0.1}$ to $PM_{2.5}$ for Bakersfield was found to be approximately 11%. Absent data specific to the City of Lathrop, this data is presumed to be the best available data and reasonable for use in estimating $PM_{0.1}$ levels in this case.

[24] Venecek, M. A., Yu, X., and Kleeman, M. J.: Predicted ultrafine particulate matter source contribution across the continental United States during summertime air pollution events, Atmos. Chem. Phys., 19, 9399–9412, https://doi.org/10.5194/acp-19-9399-2019, 2019.

Therefore, given the Project's estimated 0.74 tons per year of $PM_{2.5}$ (see Table 3.3-11), the total $PM_{0.1}$ generated by the Project is estimated to be approximately 0.08 tons per year (163 lbs/year). This is equivalent to 0.45 lbs/day of $PM_{0.1}$. While there is not specifically a quantitative threshold of significance established by the SJVAPCD for $PM_{0.1}$, the quantity estimated is considered small relative to thresholds established for other particulate matter. From an incremental health perspective, this level of UFPs generated by the Project would not be substantial. As such, the Project would not result in substantial UFP emissions that may affect nearby receptors.

VALLEY FEVER

Valley Fever, or coccidioidomycosis, is an infection caused by inhalation of the spores of the fungus, Coccidioides immitis (C. immitis). The spores live in soil and can live for an extended time in harsh environmental conditions. Activities or conditions that increase the amount of fugitive dust contribute to greater exposure, and they include dust storms, grading, and recreational off-road activities.

The San Joaquin Valley is considered an endemic area for Valley Fever. By geographic region, hospitalizations for Valley Fever in the San Joaquin Valley increased from 230 (6.9 per 100,000 population) in 2000 to 701 (17.7 per 100,000 population) in 2007. Within the region, Kern County reported the highest hospitalization rates, increasing from 121 (18.2 per 100,000 population) in 2000 to 285 (34.9 per 100,000 population) in 2007, and peaking in 2005 at 353 hospitalizations (45.8 per 100,000 population). The Centers for Disease Control and Prevention indicates that 752 of the 8,657 persons (8.7 percent) hospitalized in California between 2000 and 2007 for Valley Fever died.[25]

The distribution of C. immitis within endemic areas is not uniform and C. immitis growth sites are commonly small (a few tens of meters) and widely scattered. Known sites appear to have some ecological factors in common suggesting that certain physical, chemical, and biological conditions are more favorable for C. immitis growth. Avoidance, when feasible, of sites favorable for the occurrence of C. immitis is a prudent risk management strategy. Listed below are ecologic factors and sites favorable for the occurrence of C. immitis:[26]

1. Rodent burrows (often a favorable site for C. immitis, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
2. Prehistoric Indian campsites near fire pits.
3. Areas with sparse vegetation and alkaline soils.
4. Areas with high salinity soils.

[25] The Centers for Disease Control and Prevent (CDC). 2009. Increase in Coccidioidomycosis – California, 2000-2007. February 13. Website: https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5805a1.htm. Accessed June 8, 2022.

[26] United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever). Website: http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.486.1526&rep=rep1&type=pdf. Accessed June 8, 2022.

5. Areas adjacent to arroyos (where residual moisture may be available).
6. Packrat middens.
7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
8. Sandy well aerated soil with relatively high-water holding capacities.

Sites within endemic areas less favorable for the occurrence of C. immitis include:

1. Cultivated fields
2. Heavily vegetated areas (e.g., grassy lawns)
3. Higher elevations (above 7,000 feet)
4. Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied
5. Areas that are continually wet
6. Paved (asphalt or concrete) or oiled areas
7. Soils containing abundant microorganisms
8. Heavily urbanized areas where there is little undisturbed virgin soil

The Project site is relatively undeveloped and is surrounded by undeveloped, agricultural, industrial, and residential land uses that are semi-rural in character. Because the majority of the Project site and the immediately surrounding vicinity consists of urbanized development or cultivated fields, the Project site is an area that would lead to a low probability of having C. immitis growth sites and exposure from disturbed soil.

Construction activities would generate fugitive dust that could contain C. immitis spores. The proposed Project would be required to minimize the generation of fugitive dust during construction activities by complying with the SJVAPCD's District Rule 8021. District Rule 8021 requires limitation of fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities, by implementing control measures such as pre-watering the Project site, phasing construction work to reduce the amount of disturbed surface at any one time, and applying water or other suppressants to unpaved haul/access roads and unpaved vehicle/equipment traffic areas. Therefore, this regulation would ensure that Valley Fever impacts during construction are less than significant.

During operations, dust emissions are anticipated to be negligible, because the Project site would be occupied by buildings and pavement, after construction is complete. Therefore, Project operations would not occur on undeveloped sites and dust emissions typically associated with activity on unpaved surfaces would be negligible. This condition would preclude the possibility of the proposed Project from generating significant fugitive dust that may contribute to Valley Fever exposure. Impacts would be ***less than significant***.

ASBESTOS AND LEAD-BASED PAINT EXPOSURE

According to a map of areas where naturally occurring asbestos in California is likely to occur, there are no such areas in the vicinity of the Project site.[27] Therefore, development of the proposed Project is not anticipated to expose receptors to naturally occurring asbestos. This impact would be ***less than significant***.

CONCLUSION

TACs generated by the proposed Project would exceed the applicable residential cancer risk threshold, as shown in Table 3.3-13. Therefore, this impact would be ***significant and unavoidable***.

Impact 3.3-4: The proposed Project would not cause exposure to other emissions (such as those leading to odors) adversely affecting a substantial number of people. (Less than Significant)

The following text addresses odors. Other emissions (including criteria pollutants and TACs) are addressed in Impacts 3.3-1 through 3.3-4.

While offensive odors rarely cause any physical harm, they can be very unpleasant, leading to considerable distress among the public and often generating citizen complaints to local governments and the SJVAPCD. The general nuisance rule (Health and Safety Code §41700) is the basis for the threshold.

Examples of facilities that are known producers of odors include: Wastewater Treatment Facilities, Chemical Manufacturing, Sanitary Landfill, Fiberglass Manufacturing, Transfer Station, Painting/Coating Operations (e.g. auto body shops), Composting Facility, Food Processing Facility, Petroleum Refinery, Feed Lot/Dairy, Asphalt Batch Plant, and Rendering Plant.

If a project proposes to locate receptors and known odor sources in proximity to each other, further analysis may be warranted. However, if a project would not locate receptors and known odor sources in proximity to each other, then further analysis is not warranted. The proposed Project does not include new industrial uses that are not already present in the vicinity of the Project site. There is a residence located near to the Project site to the west; however, it is proposed to be removed. Moreover, since the proposed Project would not be a source of offensive odors, sensitive receptors located near the Project site would not be exposed by the Project to significant odors that would affect a substantial number of people. Air district Rule 402 prohibits any mobile or stationary source generating an objectionable odor, with the exception of odors emanating from certain agricultural operations. The California Health and Safety Code §41700 and Air District Rule 402 prohibit emissions of air contaminants from any source that cause nuisance or annoyance to a considerable number of people or that present a threat to public health or cause property damage.

[27] United States Geological Survey (USGS). 2011. Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. Website: https://pubs.usgs.gov/of/2011/1188/. Accessed June 8, 2022.

Compliance with these rules would preclude land uses proposed under the proposed Project from emitting objectionable odors.

CONCLUSION

The proposed Project does not propose uses that would create new odors that would adversely affect a substantial number of people. The proposed Project also does not introduce any new sensitive receptors. Therefore, operation of the proposed Project would not result in significant objectionable odors. Impacts associated with exposure to odors would be ***less than significant.***

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This section describes the geomorphic provinces/bioregions, vegetation, wildlife, soils, hydrogeomorphic features, wetlands, special status species, regulatory setting, and impacts that are expected on biological resources. This section is based in part on the following: *Draft Environmental Impact Report for the Lathrop General Plan Update* (City of Lathrop, 2022), the *City of Lathrop General Plan* (City of Lathrop, 2022), as well as site specific surveys and analysis for the Project site.

Comments were received from the following during the Notice of Preparation (NOP) scoping process related to this environmental topic: Central Valley Regional Water Quality Control Board (RWQCB) (January 20, 2023), and San Joaquin Council of Governments (SJCOG) (December 27, 2022). Full comments received are included in Appendix A.

Methods

PRE-FIELD INVESTIGATION

Prior to the field investigation, numerous maps, databases, and reports were reviewed including:

- U.S. Geological Survey (USGS) 7.5-minute Quadrangle
- USGS National Hydrography Data Set
- Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps
- National Resource Conservation Service (NRCS) Soil Survey
- California Wildlife Habitat Relationships (CWHR) maps
- California Natural Diversity Database (CNDDB)
- California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants
- U.S. Fish and Wildlife Service's (USFWS) IPac
- U.S. Fish and Wildlife Service's (USFWS) Official List

FIELD SURVEY

The Project site was subject to a field survey by Principal Biologist Steve McMurtry on April 21, and May 12, 2021. The parcels surveyed include Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06. The parcels are shown on Figure 2.0-3 in Chapter 2.0, Projection Description. The surveys served several purposes. First, they served as reconnaissance of the site to establish the existing conditions of the site and to verify information gathered in the pre-field investigation. This included identification of the habitat types, hydrologic features, topography, soil characteristics, vegetation. The field investigations followed the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2009). Field investigations were performed during the floristic period for species in the region. Field investigations were performed on foot using transects. Habitat was recorded, and the Project site was inspected for the presence, or potential for presence of wildlife. The area was inspected for its upland and aquatic habitat functions. The field investigations coincided with the optimal period for observing nesting birds, breeding amphibians, and active reptiles. The Project site was also examined for evidence of scat and tracks of mammals. The surveys spanned multiple growing seasons, so condition of the fields ranged from recently tilled agricultural fields, to early growth of crop. Orchards ranged from dormant to early growth. Visibility during each survey was excellent.

FIELD TOOLS/EQUIPMENT

Tools used during the field investigations included a Trimble GeoExplorer XH Handheld (sub-foot unit), 30-meter tape measure, diameter tape, spade, Munsell color chart, Vortex 20-60x80 spotting scope, and Swarovski 10x42 binoculars.

3.4.1 ENVIRONMENTAL SETTING

GEOMORPHIC PROVINCES/BIOREGION

The City of Lathrop is located in the southern portion of the Great Valley Geomorphic Province of California. The Great Valley Province is a broad structural trough bounded by the tilted block of the Sierra Nevada on the east and the complexly folded and faulted Coast Ranges on the west. The Stanislaus River is located just north of the City. This is a tributary of the San Joaquin River, which drains the Great Valley Province into the San Joaquin Delta to the north, ultimately discharging into the San Francisco Bay to the northwest.

The City of Lathrop is located within the San Joaquin Valley Bioregion, which is comprised of Kings County, most of Fresno, Kern, Merced, and Stanislaus counties, and portions of Madera, San Luis Obispo, and Tulare counties. The San Joaquin Valley Bioregion is the third most populous out of ten bioregions in the state, with an estimated 2 million people. The largest cities are Fresno, Bakersfield, Modesto, and Stockton. Interstate 5 and State Route 99 are the major north-south roads that run the entire length of the bioregion.

The bioregion is bordered on the west by the coastal mountain ranges. Its eastern boundary joins the southern two-thirds of the Sierra bioregion, which features Yosemite, Kings Canyon, and Sequoia National Parks. At its northern end, the San Joaquin Valley bioregion borders the southern end of the Sacramento Valley bioregion. To the west, south, and east, the bioregion extends to the edges of the valley floor.

Habitat in the bioregion includes vernal pools, valley sink scrub and saltbush, freshwater marsh, grasslands, arid plains, orchards, and oak savannah. Historically, millions of acres of wetlands flourished in the bioregion, but stream diversions for irrigation dried all but about five percent. Remnants of the wetland habitats are protected in this bioregion in publicly owned parks, reserves, and wildlife areas. The bioregion is considered the state's top agricultural producing region with the abundance of fertile soil.

LOCAL SETTING

Location

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.

- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 2.0-1 and 2.0-2 in Chapter 2.0 show the Project's regional location and vicinity. Figure 2.0-3 provides the APN map.

Topography

The Project Area topography ranges greatly in elevation from approximately 8 to 21 feet above sea level. The high area is located in the eastern portion of the site while the low area is located in the western portion of the site. The majority of the Project Area is generally characterized as flat.

Climate

The summer climate is hot and sub-humid with warm, dry summers, and cool, moist winters. In the entire San Joaquin Valley Air Basin (SJVAB), daily summer high temperatures average 95 degrees. Over the last 30 years, temperatures in the SJVAB averaged 90 degrees or higher for 106 days a year, and 100 degrees or higher for 40 days a year.

The daily summer temperature variation can be as high as 30 degrees. In winter, the Pacific high-pressure cell weakens and shifts southward, resulting in wind flow offshore, the absence of upwelling, and the occurrence of storms. Average high temperatures in the winter are in the 50s, but lows in the 30s and 40s can occur on days with persistent fog and low cloudiness. The average daily low winter temperature is 45 degrees. The average rainfall is approximately 12.1 inches and occurs during winter storms.

Existing Uses

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), a foundation from a previously demolished abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf..

Surrounding Uses

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 2.0-4.

Vegetation

The Project Area vegetation consists of highly disturbed areas (agricultural area), flat land with ruderal grasses, fallow ground, and several trees (located primarily along the northern and eastern boundary of the Project site). The majority of the Project Area is under active agricultural use, and overall, there is very limited natural vegetation in the Project Area. Trees are located along the perimeter of the agricultural fields (mainly along the northern and eastern Development Area boundaries).

Wildlife

Vegetation found in the Project site provides habitat for both common and a few special-status wildlife populations. For example, some commonly observed wildlife species in the region include: California ground squirrel (*Spermophilus beecheyi*), California vole (*Microtus californicus*), coyote (*Canis latrans*), raccoon (*Procyon lotor*), opossum (*Didelphis virginiana*), striped skunk (*Mephitis mephitis*), red-tailed hawk (*Buteo jamaicensis*), northern harrier (*Circus cyaneus),* American kestrel (*Falco sparverius*), white-tailed kite (*Elanus leucurus*), American killdeer (*Charadrius vociferus*), gopher snake (*Pituophis melanoleucus*), garter snake (*Thamnophis species*), and western fence lizard (*Sceloporus occidentalis*), as well as many native insect species. There are also several bat species in the region. Bats often feed on insects as they fly over agricultural and natural areas.

Locally common and abundant wildlife species are important components of the ecosystem. Due to habitat loss, many of these species must continually adapt to using agricultural, ruderal, and ornamental vegetation for cover, foraging, dispersal, and nesting.

Plant Communities

Agricultural and natural plant communities provide habitat for a variety of biological resources in the region. Sensitive habitats include those that are of special concern to resource agencies or those that are protected under a Habitat Conservation Plan, Natural Community Conservation Plan, the California Environmental Quality Act (CEQA), the Fish and Game Code, or the Clean Water Act (CWA). Additionally, sensitive habitats are sometimes protected under specific policies from local agencies. Figure 3.4-2 illustrates the plant communities (land cover types) in the vicinity of the Project Area[1]. Table 3.4-1 summarizes the plant communities (land cover types) by acreage.

[1] It is noted that the land cover types map is created from large scale GIS surveys put together by the State of California and does not represent a precise vegetative cover.

TABLE 3.4-1: LAND COVER TYPES

LAND COVER TYPE	*ACREAGE*		
	DEVELOPMENT AREA	*OTHER ANNEXATION AREA*	*GRAND TOTAL*
Annual Grassland	14.73	1.87	16.60
Cropland	2.63	0.00	2.63
Deciduous Orchard	0.22	0.00	0.22
Dryland Grain Crops	0.21	0.00	0.21
Evergreen Orchard	0.89	0.00	0.89
Urban	0.52	0.90	1.42
Vineyard	0.38	0.00	0.38
Totals	**19.57**	**2.77**	**22.34**

SOURCE: CALFIRE FRAP DATA, SAN JOAQUIN COUNTY, 2023.

Soils

Soil materials encountered in our site explorations are consistent with the above referenced published geologic mapping. Soil materials encountered on site generally consisted of medium dense silty sand (SM) from the surface to approximately 7.5 feet BGS. The sands were underlain by interbedded layers of very stiff to hard low plastic silts (ML) and clays (CL) to the maximum explored depth of 30.5 ft BGS.

Aquatic Resources

Agricultural ditches, which are ditches that drain runoff from the agricultural fields, are located on-site. The agricultural ditches have been created along some of the agricultural fields to collect agricultural runoff.

SPECIAL-STATUS SPECIES

The following discussion is based on a background search of special-status species that are documented in the California Natural Diversity Database (CNDDB), the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants, and the U.S. Fish and Wildlife Service's (USFWS) records of listed endangered and threatened species from the IPAC database. The background search was regional in scope and focused on the documented occurrences within the Project site's 9-quadrangle region (i.e., Lathrop, Holt, Stockton West, Stockton East, Union Island, Manteca, Tracy, Vernalis, and Ripon) U.S. Geological Survey quadrangles). Table 3.4-2 provides a list of special-status plants and Table 3.4-3 provides a list of special-status animals. Figure 3.4-4 presents the documented occurrences within the Project Area's nine-quadrangle region.

TABLE 3.4-2: SPECIAL-STATUS PLANT SPECIES WHICH MAY OCCUR IN PROJECT AREA

SPECIES	*STATUS (FED./CA/ CNPS/SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT AND BLOOMING PERIOD*	*PRESENCE DETERMINATION*
bristly sedge *Carex comosa*	--/--/2B.1/Yes	Occurrences exist in the following counties: Contra Costa, Modoc, San Joaquin, Yolo, Fresno, Sacramento, Santa Cruz, Lake, San Bernardino, Shasta, Mendocino, San Francisco, and Sonoma	Marshes and swamps, coastal prairie, valley and foothill grassland. Lake margins, wet places; site below sea level is on a Delta island. -5-1,010 m.	Not expected to occur; no suitable habitat.
Large-flowered fiddleneck *Amsinckia grandiflora*	E/E/1B.1/Yes	Native to California found in Contra Costa, Alameda, and San Joaquin Counties	Found in grasslands; it grows on sedimentary loam in mesic areas of its range. April - May	Not expected to occur; no CNDDB records within 15 miles of the site.
alkali-sink goldfields *Lasthenia chrysantha*	--/--/1B.1/No	Sacramento Valley, San Joaquin Valley	Vernal pools. Alkaline. 0-200 m. Feb-April.	Not expected to occur; no suitable habitat.
Alkali milk-vetch *Astragalus tener var. tener*	--/--/1B.2/Yes	Eastern San Francisco Bay region, the Delta, and western San Joaquin Valley south to the lower Salinas and San Benito valleys	Grassy alkaline flats and vernally moist meadows at elevations below 500 ft. March-June	Not expected to occur; no suitable habitat.
Heartscale *Atriplex cordulata var. cordulata*	--/--/1B.2/Yes	Central Valley and interior valleys of the Coast Range from Butte to Kern counties.	Saline or alkaline sandy soils in grassland or saltbush scrub. March-October	Not expected to occur; no suitable habitat and no CNDDB records within 6 miles of the site.
Lesser saltscale *Atriplex minuscula*	--/--/1B.1/No	Scattered locations in the Central Valley in Alameda, Butte, Fresno, Kings, Kern, Madera, Merced, Stanislaus, Tulare counties	Alkaline, sandy soils. Chenopod scrub, playas, valley and foothill grassland. May-October	Not expected to occur; no CNDDB occurrences within 15 miles.
Big tarplant *Blepharizonia plumosa*	--/--/1B.1/No	San Francisco Bay area with occurrences in Alameda, Contra Costa, San Joaquin, Stanislaus, and Solano Counties	Valley and foothill grassland; 30-505 m. July-Oct.	Not expected to occur; no suitable habitat and no CNDDB records within 6 miles of the site.
Palmate-bracted bird's-beak *Chloropyron palmatum*	E/E/1B.1/No	Scattered locations in Fresno and Madera counties in the San Joaquin Valley, San Joaquin, Yolo, and Colusa counties in the Sacramento Valley, and the Livermore Valley area of Alameda County	Saline-alkaline soils in seasonally-flooded lowland plains and basins at elevations of less than 500 feet. May-October	Not expected to occur; no CNDDB occurrences within 6 miles.
Recurved larkspur *Delphinium recurvatum*	--/--/1B.2/Yes	Central Valley from Colusa to Kern Counties	Alkaline soils in saltbush scrub, cismontane woodland, valley and foothill grassland; 3-750 m. Blooming Period March – May	Not expected to occur; no suitable habitat and no CNDDB records within 6 miles of the site.

SPECIES	*STATUS (FED./CA/ CNPS/SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT AND BLOOMING PERIOD*	*PRESENCE DETERMINATION*
diamond-petaled California poppy *Eschscholzia rhombipetala*	--/--/1B.1/Yes	Interior foothills of south Coast Ranges from Contra Costa to Stanislaus Counties, Carrizo Plain in San Luis Obispo County	Grassland, chenopod scrub, on clay soils where grass cover is sparse enough to allow growth of low annuals; below 975 m. March-April	Not expected to occur; no suitable habitat.
San Joaquin spearscale *Extriplex joaquinana*	--/--/1B.2/No	Delta region, central valley and central coast	Alkaline. Chenopod scrub, meadows and seeps, playas, valley and foothill grassland. April-October	Not expected to occur; CNDDB records within 6 miles of the site.
Sanford's arrowhead *Sagittaria sanfordii*	--/--/1B.2/Yes	Butte, Del Norte, El Dorado, Fresno, Merced, Mariposa, Marin, Napa, Orange, Placer, Sacramento, San Bernardino, Shasta, San Joaquin, Solano, Tehama, Tulare, Ventura, and Yuba Counties	Marshes and swamps. In standing or slow-moving freshwater ponds, marshes, and ditches. 0-605 m. May-October (November).	Not expected to occur; no suitable habitat.
Woolly rose-mallow *Hibiscus lasiocarpos var. occidentalis*	--/--/1B.2/Yes	Central Valley of California, as well as populations in eastern North America	All along the waterways of the Delta. June-September	Not expected to occur; no suitable habitat.
Wright's trichocoronis *Trichocoronis wrightii var. wrightii*	--/--/2B.1/Yes	Butte, Del Norte, El Dorado, Fresno, Merced, Mariposa, Marin, Napa, Orange, Placer, Sacramento, San Bernardino, Shasta, San Joaquin, Solano, Tehama, Tulare, Ventura, and Yuba Counties	Marshes and swamps. In standing or slow-moving freshwater ponds, marshes, and ditches. 0-605 m. May-October (November).	Not expected to occur; no suitable habitat.
Mason's lilaeopsis *Lilaeopsis masonii*	--/R/1B.1/Yes	Sacramento-San Joaquin River Delta and nearby shores of San Francisco Bay.	Marshes and swamps, riparian scrub. Tidal zones, in muddy or silty soil formed through river deposition or river bank erosion. In brackish or freshwater. 0-10 m. Apr-Nov.	Not expected to occur; no suitable habitat.
Delta mudwort *Limosella australis*	--/--/2B.1/Yes	Found in Contra Costa County, Sacramento County, San Joaquin County, and Solano County.	Riparian scrub, marshes and swamps. Usually on mud banks of the Delta in marshy or scrubby riparian associations; often with *Lilaeopsis masonii*. 0-5 m. May-Aug.	Not expected to occur; no suitable habitat.
Delta button-celery *Eryngium racemosum*	--/E/1B.1/Yes	San Joaquin River delta floodplains and adjacent Sierra Nevada foothills: Calaveras, Merced, San Joaquin, and Stanislaus Counties	Riparian scrub, seasonally inundated depressions along floodplains on clay soils; below 75 m. June-August.	Not expected to occur; no suitable habitat.
Delta tule pea *Lathyrus jepsonii var. jepsonii*	--/--/1B.2/Yes	Sacramento Valley, the San Joaquin Valley and SF Bay regions	Marshes and swamps. In freshwater and brackish marshes. Often found with Typha, Aster lentus, Rosa californica, Juncus spp., Scirpus, etc. Usually on marsh and slough edges. 0-5 m. May-July.	Not expected to occur; no suitable habitat.
slough thistle *Cirsium crassicaule*	--/--/1B.1/Yes	San Joaquin Valley: Kings, Kern, and San Joaquin Counties	Freshwater sloughs and marshes; 3-100 m. May-August.	Not expected to occur; no suitable habitat.

SPECIES	*STATUS (FED./CA/ CNPS/SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT AND BLOOMING PERIOD*	*PRESENCE DETERMINATION*
Suisun Marsh aster *Symphyotrichum lentum*	--/--/1B.2/Yes	Contra Costa, Napa, Sacramento, San Joaquin, Solano, and Yolo Counties	Marshes and swamps (brackish and freshwater). Most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. 0-15 m. (April) May-November.	Not expected to occur; no suitable habitat.
Showy golden madia *Madia radiata*	--/--/1B.1/Yes	It is endemic to California, where it is known mostly from the Central Coast Ranges and adjacent edges of the San Francisco Bay Area and Central Valley.	Valley and foothill grassland, cismontane woodland. Mostly on adobe clay in grassland or among shrubs. 75-1220 m. Mar-May.	Not expected to occur; outside elevation range.
California alkali grass *Puccinellia simplex*	--/--/1B.2/No	Located throughout California, Oregon, and Utah. Occurrences in Alameda, Butte, Contra Costa, Fresno, Glenn, Kings, Kern, Lake, Los Angeles, Madera, Merced, Napa, San Bernardino, Santa Clara, Santa Cruz, San Luis Obispo, Solano, Stanislaus, Tulare, and Yolo Counties.	Alkaline, vernally mesic; sinks, flats, and lake margins. Chenopod scrub, meadows and seeps, valley and foothill grassland, vernal pools. 2 – 930 m. March – May.	Not expected to occur; no suitable habitat and no CNDDB records within 14 miles of the site.
Saline clover *Trifolium hydrophilum*	--/--/1B.2/No	Eastern and Northern San Francisco Bay region, the Delta, western San Joaquin Valley, southern San Jose	Marshes and swamps, valley and foothill grassland (mesic, alkaline), and vernal pools. April-June	Not expected to occur; no suitable habitat.
Caper-fruited tropidocarpum *Tropidocarpum capparideum*	--/--/1B.1/Yes	Historically known from the northwest San Joaquin Valley and adjacent Coast Range foothills; currently known from Fresno, Monterey, and San Luis Obispo Counties	Alkaline hills in valley and foothill grassland; below 455 m. March-April.	Not expected to occur; one CNDDB record within 1.5 miles of the site.
watershield *Brasenia schreberi*	--/--/2B.3/No	Central Valley of California and western North America	Freshwater marshes and swamps. June-September.	Not expected to occur; no suitable habitat.

NOTES: THE PRESENCE DETERMINATIONS WERE MADE BY PRINCIPAL BIOLOGIST, STEVE MCMURTRY (DE NOVO PLANNING GROUP, 2023) AND ARE BASED ON THE SITE SURVEY, REVIEW OF ON-SITE HABITAT CONDITIONS, AND THE CNDDB RESULTS

CNPS = CALIFORNIA NATIVE PLANT SOCIETY
SJMSCP = SAN JOAQUIN MULTI-SPECIES HABITAT CONSERVATION AND OPEN SPACE PLAN
FEDERAL
E = ENDANGERED UNDER THE FEDERAL ENDANGERED SPECIES ACT.
T = THREATENED UNDER THE FEDERAL ENDANGERED SPECIES ACT.
STATE
E = ENDANGERED UNDER THE CALIFORNIA ENDANGERED SPECIES ACT.
CALIFORNIA NATIVE PLANT SOCIETY
1B = RARE, THREATENED, OR ENDANGERED IN CALIFORNIA AND ELSEWHERE.
2 = RARE, THREATENED, OR ENDANGERED IN CALIFORNIA, BUT MORE COMMON ELSEWHERE.
3 = A REVIEW LIST – PLANTS ABOUT WHICH MORE INFORMATION IS NEEDED.
4 = PLANTS OF LIMITED DISTRIBUTION – A WATCH LIST
.1 = SERIOUSLY ENDANGERED IN CALIFORNIA (OVER 80% OF OCCURRENCES THREATENED-HIGH DEGREE AND IMMEDIACY OF THREAT).
.2 = FAIRLY ENDANGERED IN CALIFORNIA (20-80% OCCURRENCES THREATENED).
.3 = NOT VERY ENDANGERED IN CALIFORNIA (<20% OF OCCURRENCES THREATENED).

TABLE 3.4-3: SPECIAL-STATUS WILDLIFE AND FISH SPECIES WHICH MAY OCCUR IN PROJECT AREA

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
INVERTEBRATES				
Vernal pool fairy shrimp *Branchinecta lynchi*	T/--/Yes	Central Valley, central and south Coast Ranges from Tehama County to Santa Barbara County. Isolated populations also in Riverside County	Common in vernal pools; they are also found in sandstone rock outcrop pools.	No potential to occur. Habitat not present.
vernal pool tadpole shrimp *Lepidurus packardi*	E/--/Yes	Shasta County south to Merced County.	Vernal pools and ephemeral stock ponds.	No potential to occur. Habitat not present.
western ridged mussel *Gonidea angulata*	--/--/No	Extirpated throughout their original range in California, particularly in southern California and the Central Valley. They have also been extirpated from many sites in the Snake and Columbia watersheds.	Primarily creeks and rivers and less often lakes. Originally in most of state, now extirpated from Central and Southern California.	No potential to occur. Habitat not present.
California linderiella *Linderiella occidentalis*	--/--/No	Ranges from near Redding in the north to as far south as Fresno County, mainly to the east of the Sacramento and San Joaquin Rivers	Natural, and artificial, seasonally ponded habitat types including: vernal pools, swales, ephemeral drainages, stock ponds, reservoirs, ditches, backhoe pits, and ruts caused by vehicular activities	No potential to occur. Habitat not present.
Conservancy fairy shrimp *Branchinecta conservatio*	E/--/Yes	Sacramento Valley and the northern San Joaquin Valley, and the eastern flank of the central coastal range	Large to very large vernal pools and vernal lakes although they also have been found in alkaline pools	No potential to occur. Habitat not present.
Crotch bumble bee *Bombus crotchii*	--/--/No	Central California south to Baja California del Norte, Mexico, and includes coastal areas east to the edges of the deserts and the Central Valley	Open grassland and scrub	Low potential; No known CNDDB occurrences within 10 miles of Project site. Potential habitat limited, to non-existent within Project area.
Sacramento anthicid beetle *Anthicus sacramento*	--/--/No	Found in several locations along the Sacramento and San Joaquin rivers, from Shasta to San Joaquin counties, and at one site along the Feather River.	Sand dune area, sand slipfaces among bamboo and willow, but may not depend on these plants.	No potential to occur. Habitat not present.
San Joaquin Valley giant flower-loving fly *Rhaphiomidas*	--/--/ No	Historically known from, and endemic to, sandy soils of the San Joaquin Valley from Antioch Dunes in Contra Costa Co south to Sand Ridge in Kern Co.	Associated with sandy soils such as riverine deposits and sand dunes with relatively sparse vegetation. Adult flight from Jul to Oct and life span is about 3 days and do not visit	No potential to occur. Habitat not present.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
trochilus			flowers/nectar. Females deposit eggs in and on the surface of sandy soil. Larvae burrow in fine sands up to 10 feet deep and are known to live for 3 years prior to pupation.	
molestan blister beetle *Lytta moesta*	--/--/Yes	Distribution of this species is poorly known.	Annual grasslands, foothill woodlands or saltbush scrub.	No potential to occur. Habitat not present. No known CNDDB occurrences within 20 miles of Project site.
Western bumble bee *Bombus occidentalis*	T/--/No	Western North America, ranging from the tundra region in Alaska and Yukon south along the west coast to southern British Columbia to central California, Arizona and New Mexico and east into southern Saskatchewan and northwestern Great Plains	Open coniferous, deciduous and mixed-wood forests, wet and dry meadows, montane meadows and prairie grasslands, meadows bordering riparian zones, and along roadsides in taiga adjacent to wooded areas, urban parks, gardens and agricultural areas, subalpine habitats and more isolated natural areas	No potential to occur. Habitat not present. No known CNDDB occurrences within 3 miles of Project site.
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	T/--/Yes	Stream side habitats below 3,000 feet throughout the Central Valley	Riparian and oak savanna habitats with elderberry shrubs; elderberries are the host plant.	No potential to occur. Habitat not present. No known CNDDB occurrences within 4 miles of Project site.
AMPHIBIANS				
California tiger salamander *Ambystoma californiense (A. tigrinum c.)*	T/SSC/Yes	Central Valley, including Sierra Nevada foothills, up to approximately 1,000 feet, and coastal region from Butte County south to northeastern San Luis Obispo County.	Small ponds, lakes, or vernal pools in grass-lands and oak woodlands for larvae; rodent burrows, rock crevices, or fallen logs for cover for adults and for summer dormancy.	No potential to occur. Habitat not present.
Foothill yellow-legged frog *Rana boylii*	--/C (SSC)/Yes	Occurs in the Klamath, Cascade, north Coast, south Coast, Transverse, and Sierra Nevada Ranges up to approximately 6,000 feet	Creeks or rivers in woodland, forest, mixed chaparral, and wet meadow habitats with rock and gravel substrate and low overhanging vegetation along the edge. Usually found near riffles with rocks and sunny banks nearby.	No potential to occur. Habitat not present.
California red-legged frog *Rana aurora draytoni*	T/SSC/Yes	Found along the coast and coastal mountain ranges of California from Marin County to San Diego County and in the Sierra Nevada from Tehama County to Fresno County	Permanent and semi-permanent aquatic habitats, such as creeks and cold-water ponds, with emergent and submergent vegetation. May estivate in rodent burrows or cracks during dry periods.	No potential to occur. Habitat not present.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
Western spadefoot *Spea hammondii*	T/SSC/Yes	Found along the coast and coastal mountain ranges of California from Marin County to San Diego County and in the Sierra Nevada from Tehama County to Fresno County	Permanent and semi-permanent aquatic habitats, such as creeks and cold-water ponds, with emergent and submergent vegetation. May estivate in rodent burrows or cracks during dry periods.	No potential to occur. Habitat not present.
BIRDS				
cackling (=Aleutian Canada) goose *Branta hutchinsii leucopareia*	--/WL/Yes	The entire population winters in Butte Sink, then moves to Los Banos, Modesto, the Delta, and East Bay reservoirs; stages near Crescent City during spring before migrating to breeding grounds.	Roosts in large marshes, flooded fields, stock ponds, and reservoirs; forages in pastures, meadows, and harvested grainfields; corn is especially preferred.	Habitat present (ditches and fields), none observed. Regionally common.
California black rail *Laterallus jamaicensis coturniculus*	--/T(WL)/Yes	Permanent resident in the San Francisco Bay and east-ward through the Delta into Sacramento and San Joaquin Counties; small populations in Marin, Santa Cruz, San Luis Obispo, Orange, Riverside, and Imperial Counties	Tidal salt marshes associated with heavy growth of pickleweed; also occurs in brackish marshes or freshwater marshes at low elevations	No potential to occur. Habitat not present. No known CNDDB occurrences within 11 miles of Project site.
Tricolored blackbird *Agelaius tricolor*	BCC/C (SSC)/Yes	Permanent resident in the Central Valley from Butte County to Kern County. Breeds at scattered coastal locations from Marin County south to San Diego County; and at scattered locations in Lake, Sonoma, and Solano Counties. Rare nester in Siskiyou, Modoc, and Lassen Counties	Nests in dense colonies in emergent marsh vegetation, such as tules and cattails, or upland sites with blackberries, nettles, thistles, and grainfields. Habitat must be large enough to support 50 pairs. Probably requires water at or near the nesting colony	Low potential to occur; potential nesting and foraging habitat present within region, but not within the Project site. CNDDB occurrences within 1.5 miles of the site. Nesting opportunities are absent. Highly mobile species could pass through.
Burrowing owl *Athene cunicularia*	BCC/SSC/ Yes	Lowlands throughout California, including the Central Valley, northeastern plateau, southeastern deserts, and coastal areas. Rare along south coast	Level, open, dry, heavily grazed or low stature grassland or desert vegetation with available burrows	Moderate to high potential to occur. Suitable nesting and foraging habitat present on-site. Nearest CNDDB record is approximately 0.54 miles east or further. No active nesting observed. Highly mobile species could pass through and could establish nests in future years.
Swainson's hawk *Buteo swainsoni*	BCC/T/Yes	Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley. Highest nesting densities occur near Davis and Woodland, Yolo County	Nests in oaks or cottonwoods in or near riparian habitats. Forages in grasslands, irrigated pastures, and grain fields	High potential to occur. Suitable foraging and nesting habitat present on-site. Nearest CNDDB record 0.8-miles south of site. Highly mobile species could pass through.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
White-tailed kite *Elanus leucurus*	--/--/Yes	Gulf Coast in Texas and Mexico and in the valley and coastal regions of central and southern California	Grasslands, marshes, row crops and alfalfa, where they hover while foraging for rodents and insects.	Moderate potential to occur. Suitable foraging habitat present on-site. There are no CNDDB record within 5 miles of the site. Nesting opportunities are absent. Highly mobile species could pass through.
California horned lark *Eremophila alpestris actia*	--/--/Yes	Central Valley and coastal valleys and foothills.	Forage in large groups in open grasslands, nesting in hollows on the ground, and are also regularly found breeding on the Valley floor in suitable habitat	Low potential to occur. Suitable habitat present on-site. There are no CNDDB record within 15 miles of the site. No active nesting observed. Highly mobile species could pass through and could establish nests in future years.
yellow-headed blackbird *Xanthocephalus xanthocephalus*	--/SSC/Yes	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds.	Nests only where large insects such as odonatan are abundant, nesting timed with maximum emergence of aquatic insects.	Low potential to occur. Marginal habitat present on-site. There is one CNDDB record 1.55 miles south of the site. Nesting opportunities are absent. Highly mobile species could pass through.
Loggerhead shrike *Lanius ludovicianus*	BCC/SSC/ Yes	Resident and winter visitor in lowlands and foothills throughout California. Rare on coastal slope north of Mendocino County, occurring only in winter	Prefers open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches	Low potential to occur. Marginal habitat present on-site. There is one CNDDB record 3.9 miles south of the site. Highly mobile species could pass through.
merlin *Falco columbarius*	--/WL/Yes	Does not nest in California. Rare but widespread winter visitor to the Central Valley and coastal areas	Forages along coastline in open grasslands, savannas, and woodlands. Often forages near lakes and other wetlands	No potential to occur. Habitat not present.
song sparrow ("Modesto" population) *Melospiza melodia*	BCC/SSC/ Yes	Restricted to California, where it is locally numerous in the Sacramento Valley, Sacramento–San Joaquin River Delta, and northern San Joaquin Valley. Exact boundaries of range uncertain.	Found in emergent freshwater marshes dominated by tules (*Scirpus* spp.) and cattails (*Typha* spp.) as well as riparian willow (*Salix* spp.) thickets. They also nest in riparian forests of Valley Oak (*Quercus lobata*) with a sufficient understory of blackberry (*Rubus* spp.), along vegetated irrigation canals and levees, and in recently planted Valley Oak restoration sites.	No potential to occur. Habitat not present.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
western yellow-billed cuckoo *Coccyzus americanus occidentalis*	T/E/Yes	Nests along the upper Sacramento, lower Feather, south fork of the Kern, Amargosa, Santa Ana, and Colorado Rivers	Wide, dense riparian forests with a thick understory of willows for nesting; sites with a dominant cottonwood overstory are preferred for foraging; may avoid valley oak riparian habitats where scrub jays are abundant	No potential to occur. Habitat not present.
least Bell's vireo *Vireo bellii pusillus*	E/E/No	Central Valley of California and other low-elevation river valleys.	Dense brush, mesquite, willow-cottonwood forest, streamside thickets, and scrub oak.	No potential to occur. Habitat not present. There is one CNDDB record 6 miles north of the site. Nesting opportunities are absent. Highly mobile species could pass through.
FISH				
Delta smelt *Hypomesus transpacificus*	T/T/Yes	Primarily in the Sacramento–San Joaquin Estuary but has been found as far upstream as the mouth of the American River on the Sacramento River and Mossdale on the San Joaquin River; range extends downstream to San Pablo Bay.	Occurs in estuary habitat in the Delta where fresh and brackish water mix in the salinity range of 2–7 parts per thousand.	No potential to occur. Habitat not present.
green sturgeon - southern DPS *Acipenser medirostris pop. 1*	T/--/Yes	Spawns in the Sacramento, Feather and Yuba Rivers. Presence in upper Stanislaus and San Joaquin Rivers may indicate spawning.	Spawning site fidelity. Non-spawning adults occupy marine/estuarine waters. Delta Estuary is important for rearing juveniles. Spawning occurs primarily in cool (11-15 C) sections of mainstem rivers in deep pools (8-9 meters) with substrate containing small to medium sized sand, gravel, cobble, or boulder.	No potential to occur. Habitat not present.
hardhead *Mylopharodon conocephalus*	--/SSC/No	Tributary streams in the San Joaquin drainage; large tributary streams in the Sacramento River and the main stem.	Resides in low to mid-elevation streams and prefer clear, deep pools and runs with slow velocities. They also occur in reservoirs.	No potential to occur. Habitat not present.
steelhead - Central Valley DPS *Oncorhynchus mykiss irideus pop. 11*	T/--/No	This distinct population segment, or DPS, includes all naturally spawned populations of steelhead (and their progeny) in the Sacramento and San Joaquin Rivers and their tributaries, excluding steelhead from San Francisco Bay and San Pablo Bays and their tributaries.	Free of heavy sedimentation with adequate flow and cool, clear water. Gravel that is between 0.5 to 6.0 inches in diameter, dominated by 2 to 3-inch gravel. Escape cover such as logs, undercut banks, and deep pools for spawning adults.	No potential to occur. Habitat not present.
Longfin smelt *Spirinchus thaleichthys*	--/SSC/Yes	Occurs in estuaries along the California coast. Adults concentrated in Suisun, San Pablo, and North San Francisco Bays.	Prior to spawning, these fish aggregate in deepwater habitats available in the northern Delta, including, primarily, the channel habitats of Suisun Bay and the Sacramento River.	No potential to occur. Habitat not present.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
			Spawning occurs in fresh water on the San Joaquin River below Medford Island and on the Sacramento River below Rio Vista.	
MAMMALS				
Pallid bat *Antrozous pallidus*	--/SSC/No	Occurs throughout California except the high Sierra from Shasta to Kern County and the northwest coast, primarily at lower and mid elevations	Occurs in a variety of habitats from desert to coniferous forest. Most closely associated with oak, yellow pine, redwood, and giant sequoia habitats in northern California and oak woodland, grassland, and desert scrub in southern California. Relies heavily on trees for roosts	Low potential to occur. No roosting habitat present on-site. There are no CNDDB record within approximately 15 miles of the site. Highly mobile species could pass through or forage if roosting nearby.
riparian (=San Joaquin Valley) woodrat *Neotoma fuscipes riparia*	E/SSC/Yes	Nests along the upper Sacramento, lower Feather, south fork of the Kern, Amargosa, Santa Ana, and Colorado Rivers	Wide, dense riparian forests with a thick understory of willows for nesting; sites with a dominant cottonwood overstory are preferred for foraging; may avoid valley oak riparian habitats where scrub jays are abundant	No potential to occur. Habitat not present.
Townsend's big-eared bat *Corynorhinus townsendii*	--/SSC/Yes	Coastal regions from Del Norte County south to Santa Barbara County.	Roosts in caves, tunnels, mines, and dark attics of abandoned buildings. Very sensitive to disturbances and may abandon a roost after one onsite visit.	Low potential to occur. No roosting habitat present on-site. Highly mobile species could pass through or forage if roosting nearby.
Western mastiff bat *Eumops perotis californicus*	--/SSC/Yes	Occurs along the western Sierra primarily at low to mid elevations and widely distributed throughout the southern coast ranges. Recent surveys have detected the species north to the Oregon border	Found in a wide variety of habitats from desert scrub to montane conifer. Roosts and breeds in deep, narrow rock crevices, but may also use crevices in trees, buildings, and tunnels	Low potential to occur. No roosting habitat present on-site. There are no CNDDB record within 22 miles of the site. Highly mobile species could pass through or forage if roosting nearby.
San Joaquin pocket mouse *Perognathus inornatus*	--/--/Yes	Occurs throughout the San Joaquin Valley and in the Salinas Valley	Favors grasslands and scrub habitats with fine textured soils	Low potential to occur. Agricultural land use likely precludes this species from maintaining long-term populations on the site. During fallow periods, the habitat improves for this species. One CNDDB record located approximately 10 miles west of the site.

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
Riparian brush rabbit *Sylvilagus bachmani riparius*	E/E/Yes	Limited to San Joaquin County at Caswell State Park near the confluence of the Stanislaus and San Joaquin Rivers and Paradise Cut area on Union Pacific right-of-way lands	Native valley riparian habitats with large clumps of dense shrubs, low-growing vines, and some tall shrubs and trees	No potential to occur. Habitat not present.
American badger *Taxidea taxus*	--/SSC/Yes	In California, badgers occur throughout the state except in humid coastal forests of northwestern California in Del Norte and Humboldt Counties	Badgers occur in a wide variety of open, arid habitats but are most commonly associated with grasslands, savannas, mountain meadows, and open areas of desert scrub; the principal habitat requirements for the species appear to be sufficient food (burrowing rodents), friable soils, and relatively open, uncultivated ground	Low potential to occur. Suitable foraging habitat on-site; and highly mobile species. Agricultural land use likely precludes this species from maintaining burrows on the site. There is one CNDDB record 10.3 miles southwest of the site.
San Joaquin kit fox *Vulpes macrotis mutica*	E/T/Yes	Principally occurs in the San Joaquin Valley and adjacent open foothills to the west; recent records from 17 counties extending from Kern County north to Contra Costa County	Saltbush scrub, grassland, oak, savanna, and freshwater scrub	Low potential to occur. No dens present, but highly mobile species that could forage on the site. Agricultural land use likely precludes this species from maintaining dens on the site. No CNDDB occurrences within 12-miles of the site.
REPTILES				
California glossy snake *Arizona elegans occidentalis*	--/SSC/No	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils	Low potential to occur. The Project site could provide some upland habitat, including nesting opportunities during fallow periods, however, active agricultural activities in the immediate vicinity, as well as regular disking for weed abatement on-site, largely inhibit upland nesting for this species.
Western pond turtle Emys marmorata	--/SSC/Yes	Occurs from the Oregon border of Del Norte and Siskiyou Counties south along the coast to San Francisco Bay, inland through the Sacramento Valley, and on the western slope of Sierra Nevada	Occupies ponds, marshes, rivers, streams, and irrigation canals with muddy or rocky bottoms and with watercress, cattails, water lilies, or other aquatic vegetation in woodlands, grasslands, and open forests	No potential to occur. Habitat not present.
San Joaquin coachwhip *Masticophis*	--/SSC/Yes	From Colusa County in the Sacramento Valley southward to the grapevine in the San Joaquin Valley and westward into the inner coast ranges.	Occurs in open, dry, vegetative associations with little or no tree cover. It occurs in valley grassland and saltbush scrub associations. Often	Low potential to occur. Marginal habitat present in the Project area. No CNDDB occurrences within 16-

SPECIES	*STATUS (FED/CA/ SJMSCP)*	*GEOGRAPHIC DISTRIBUTION*	*HABITAT REQUIREMENTS*	*PRESENCE DETERMINATION*
flagellum ruddocki		An isolated population occurs at Sutter Buttes. Known elevational range from 20 to 900 meters	occurs in association with mammal burrows.	miles of the site.
giant gartersnake *Thamnophis gigas*	T/T/Yes	Rivers, canals, irrigation ditches, rice fields, and other aquatic habitats with slow moving water and heavy emergent vegetation.	Endemic to the Central Valley. In the Sacramento Valley, suitable habitats occur primarily in the central portion of the valley floor.	No potential to occur. Habitat not present.
Coast horned lizard *Phrynosoma blainvillii*	--/SSC/No	Sacramento Valley, including foothills, south to southern California; Coast Ranges south of Sonoma County; below 4,000 feet in northern California	Grasslands, brushlands, woodlands, and open coniferous forest with sandy or loose soil; requires abundant ant colonies for foraging.	No potential to occur. Habitat not present.

NOTES: THE PRESENCE DETERMINATIONS WERE MADE BY PRINCIPAL BIOLOGIST, STEVE MCMURTRY (DE NOVO PLANNING GROUP, 2023) AND ARE BASED ON THE SITE SURVEY, REVIEW OF ON-SITE HABITAT CONDITIONS, AND THE CNDDB RESULTS.

STATUS EXPLANATIONS:

FEDERAL

E = ENDANGERED UNDER THE FEDERAL ENDANGERED SPECIES ACT.
T = THREATENED UNDER THE FEDERAL ENDANGERED SPECIES ACT.
C = CANDIDATE SPECIES FOR LISTING UNDER THE FEDERAL ENDANGERED SPECIES ACT.
D = DELISTED FROM FEDERAL LISTING STATUS.
BCC = BIRD OF CONSERVATION CONCERN

STATE

E = ENDANGERED UNDER THE CALIFORNIA ENDANGERED SPECIES ACT.
T = THREATENED UNDER THE CALIFORNIA ENDANGERED SPECIES ACT.
C = CANDIDATE SPECIES FOR LISTING UNDER THE STATE ENDANGERED SPECIES ACT.
FP = FULLY PROTECTED UNDER THE CALIFORNIA FISH AND GAME CODE.
SSC = SPECIES OF SPECIAL CONCERN IN CALIFORNIA.

3.4.2 REGULATORY SETTING

There are a number of regulatory agencies whose responsibility includes the oversight of the natural resources of the state and nation including the California Department of Fish and Wildlife (CDFW), USFWS, U.S. Army Corps of Engineers (USACE), and the Central Valley Regional Water Quality Control Board (CVRWQCB). These agencies often respond to declines in the quantity of a particular habitat or plant or animal species by developing protective measures for those species or habitat type. The following is an overview of the federal, state and local regulations that are applicable to the proposed Project.

FEDERAL

Federal Endangered Species Act

The Federal Endangered Species Act (FESA), administered by the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS), provides protection to plant and wildlife species listed as endangered or threatened. In general, USFWS has jurisdiction over terrestrial and fresh-water species, while NMFS has jurisdiction over ocean-going species.

Section 9 of FESA generally prohibits all persons from causing the "take" of any member of a listed species. (16 U.S.C. § 1538.) This prohibition applies mainly to animals; it only extends to plants in areas “under federal jurisdiction” and plants already protected under state law. (Id., subd. (a)(2)(B); see also Northern Cal. River Watch v. Wilcox (9th Cir. 2010) 620 F.3d 1075.)

“Take” is defined in statute as, "... to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." (16 U.S.C. § 1532(19).) Harass is defined in regulation as "...an intentional or negligent act or omission that creates the likelihood of injury to a listed species by annoying it to such an extent as to significantly disrupt normal behavior patterns that include, but are not limited to, breeding, feeding, or sheltering." (See 50 CFR § 17.3.) Harm is defined in regulation as "...significant habitat modification or degradation that results in death or injury to listed species by significantly impairing behavioral patterns such as breeding, feeding, or sheltering.” (Id.) Despite the general prohibition against take, FESA in some circumstances permits “incidental take,” which means take that is incidental to, but not the purpose of, the carrying out of an otherwise lawful activity. (16 U.S.C. § 1539(a).) Under section 10 of FESA, persons seeking permission to engage in actions that could result in such incidental take can obtain such permission through the approval of a habitat conservation plan (HCP) by either USFWS or NMFS. (16 U.S.C., § 1539(a).)

Proposed federal actions that would result in take of a federal-listed or proposed species require consultation with USFWS or NMFS under section 7 of FESA. (Id., § 1536.) The objective of consultation is to determine whether the proposed federal action would jeopardize the continued existence of a listed species or destroy or adversely modify critical habitat. Where such an outcome would not occur, USFWS or NMFS must still impose reasonable and prudent measures to minimize the effects of the incidental taking. Where such an outcome could occur, USFWS or

NMFS must propose reasonable and prudent alternatives that, if implemented, would avoid such an outcome. (Id.)

Compliance with ESA can be achieved under Section 7 or 10 of FESA depending on the involvement of the federal government. Section 7 requires federal agencies to make a finding on all federal actions, including the approval by an agency of a public or private action, such as the issuance of a "404 permit" for filling wetlands by the U.S. Army Corps of Engineers (USACE), on the potential of the action to jeopardize the continued existence of any listed species impacted by the action or to result in the destruction or adverse modification of such species' critical habitat. Provisions of Section 10 are implemented when there is no federal involvement in a project except compliance with FESA. A take not specifically allowed by federal permit under Section 7 or Section 10(a)(1)(B) of the FESA is subject to enforcement through civil or criminal proceedings under Section II of the FESA.

Migratory Bird Treaty Act

To kill, possess, or trade a migratory bird, bird part, nest, or egg is a violation of the Federal Migratory Bird Treaty Act (FMBTA: 16 U.S.C., §703, Supp. I, 1989), unless it is in accordance with the regulations that have been set forth by the Secretary of the Interior.

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (16 USC Section 668) protects these birds from direct take and prohibits the take or commerce of any part of these species. The USFWS administers the act, and reviews Federal agency actions that may affect these species.

Clean Water Act – Section 404

Section 404 of the CWA regulates all discharges of dredged or fill material into waters of the U.S. Discharges of fill material includes the placement of fill that is necessary for the construction of any structure, or impoundment requiring rock, sand, dirt, or other material for its construction; site-development fills for recreational, industrial, commercial, residential, and other uses; causeways or road fills; and fill for intake and outfall pipes and subaqueous utility lines [33 C.F.R. §328.2(f)]. Waters of the U.S. include lakes, rivers, streams, intermittent drainages, mudflats, sandflats, wetlands, sloughs, and wet meadows. Wetlands are defined as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" [33 C.F.R. §328.3(b)]. Waters of the U.S. exhibit a defined bed and bank and ordinary high-water mark (OHWM). The OHWM is defined by the USACE as "that line on shore established by the fluctuations of water and indicated by physical character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" [33 C.F.R. §328.3(e)].

In general, Section 404 of the Clean Water Act requires permits for the discharge of dredged or fill material into waters of the United States, including wetlands. However, certain activities are exempt from permit requirements under Section 404(f)(1). Activities that are exempt under the Clean Water Act, Section 404(f)(1), include:

- Established (ongoing) farming, ranching, and silviculture activities such as plowing, seeding, cultivating, minor drainage, harvesting for the production of food, fiber, and forest products, or upland soil and water conservation practices
- Maintenance (but not construction) of drainage ditches
- Construction and maintenance of irrigation ditches
- Construction and maintenance of farm or stock ponds
- Construction and maintenance of farm and forest roads, in accordance with best management practices
- Maintenance of structures such as dams, dikes, and levees

Clean Water Act – Section 401

Section 401 of the CWA (33 U.S.C. 1341) requires an applicant who is seeking a 404 permit to first obtain a water quality certification from the RWQCB. To obtain the water quality certification, the CVRWQCB must indicate that the proposed fill would be consistent with the standards set forth by the state.

Department of Transportation Act - Section 4(f)

Section 4(f) has been part of Federal law since 1966. It was enacted as Section 4(f) of the Department of Transportation (DOT) Act of 1966 and set forth in Title 49 United States Code (U.S.C.), Section 1653(f). In January 1983, as part of an overall recodification of the DOT Act, Section 4(f) was amended and codified in 49 U.S.C. Section 303. This law established policy on Lands, Wildlife and Waterfowl Refuges, and Historic Sites as follows:

> *It is the policy of the United States Government that special effort should be made to preserve the natural beauty of the countryside and public park and recreation lands, wildlife and waterfowl refuges, and historic sites. The Secretary of Transportation shall cooperate and consult with the Secretaries of the Interior, Housing and Urban Development, and Agriculture, and with the States, in developing transportation plans and programs that include measures to maintain or enhance the natural beauty of lands crossed by transportation activities or facilities. The Secretary of Transportation may approve a transportation program or project (other than any project for a park road or parkway under section 204 of title 23) requiring the use of publicly owned land of a public park, recreation area, or wildlife and waterfowl refuge of national, State, or local significance, or land of a historic site of national, State, or local significance (as determined by the Federal, State, or local officials having jurisdiction over the park, area, refuge, or site) only if: a) There is no prudent and feasible alternative to using that land; and b) The program or project includes all possible planning to minimize harm to the park, recreation area, wildlife and waterfowl refuge, or historic site resulting from the use.*

Rivers and Harbors Act of 1899

The Rivers and Harbors Act prohibits the obstruction or alteration of any navigable water of the United States. The Act requires authorization from the USACE for any excavation or deposition of

materials into these waters or for any work that could affect the course, location, condition, or capacity of rivers or harbors.

STATE

Fish and Game Code §2050-2097 - California Endangered Species Act

The California Department of Fish and Wildlife (CDFW) administers a number of laws and programs designed to protect fish and wildlife resources. Principal of these is the California Endangered Species Act of 1984 (CESA Fish and Game Code Section 2050 et seq.), which regulates the listing and take of state endangered and threatened species, as well as candidate species. Under Section 2081 of CESA, CDFW may authorize take of an endangered and/or threatened species, or candidate species, by an incidental take permit or Memorandum of Understanding (MOU) for scientific, educational, or management purposes. In approving an incidental take permit, CDFW must ensure, among other things, that "[t]he impacts of the authorized take shall be minimized and fully mitigated." Further, "[t]he measures required to meet this obligation shall be roughly proportional in extent to the impact of the authorized taking on the species. Where various measures are available to meet this obligation, the measures required shall maintain the applicant's objectives to the greatest extent possible. All required measures shall be capable of successful implementation." To be consistent with Federal regulations, CESA created the categories of "threatened" and "endangered" species. It converted all "rare" animals into the Act as threatened species, but did not do so for rare plants, as previously designated under the California Native Plant Protection Act (discussed below). Thus, there are three listing categories for plants in California: rare, threatened, and endangered. Under State law, plant and animal species may be formally designated by official listing by the California Fish and Game Commission.

Fish and Game Code §2800-2835 – Natural Communities Conservation Planning Act

The Natural Communities Conservation Planning Act is set forth in Fish and Game Code Sections 2800–2835. The intent of the legislation is to provide for conservation planning as an officially recognized policy that can be used as a tool to eliminate conflicts between the protection of natural resources and the need for growth and development. In addition, the legislation promotes conservation planning as a means of coordination and cooperation among private interests, agencies, and landowners, and as a mechanism for multispecies and multi-habitat management and conservation. The development of Natural Community Conservation Plans (NCCPs) is an alternative to obtaining take authorization under Section 2081 of the Fish and Game Code.

Fish and Game Code §1900-1913 – California Native Plant Protection Act

In 1977 the State Legislature passed the Native Plant Protection Act (NPPA) in recognition of rare and endangered plants of the state. The intent of the law was to preserve, protect, and enhance endangered plants. The NPPA gave the California Fish and Game Commission the power to designate native plants as endangered or rare, and to require permits for collecting, transporting, or selling such plants. The NPPA includes provisions that prohibit the taking of plants designated as

"rare" from the wild, and a salvage mandate for landowners, which requires notification of the CDFW 10 days in advance of approving a building site.

Fish and Game Code §3503, 3503.5, 3800 – Predatory Birds

Under California Fish and Game Code section 3503, "[i]t is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto." Under section 3503.5, "[i]t is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird, except as otherwise provided by this code or any regulation adopted pursuant thereto." Section 3503 allows some destruction of nests or eggs (it cannot be done "needlessly"), while section 3503.5 prohibits such destruction outright. Under section 3800, it is generally unlawful to take "any nongame bird," with some exceptions. Any activity that would cause a nest to be abandoned or cause a reduction or loss in a reproductive effort is commonly understood to constitute a take. This generally includes construction activities.

Fish and Game Code §1601-1603 – Streambed Alteration

Under the California Fish and Game Code, CDFW has jurisdiction over any proposed activities that would divert or obstruct the natural flow or change the bed, channel, or bank of any lake or stream. Private landowners or project proponents must obtain a "Streambed Alteration Agreement" from CDFW prior to any alteration of a lake bed, stream channel, or their banks. Through this agreement, the CDFW may impose reasonable measures necessary to protect fish and wildlife resources. These agreements are usually initiated through the local CDFW warden and will specify timing and construction conditions, including any mitigation necessary to protect fish and wildlife from impacts of the work.

Fish and Game Code §3511, 3513, 4700, and 5050 – Fully Protected Species

Fish and Game Code Sections 3511, 3513, 4700, and 5050 pertain to fully protected wildlife species (birds in Sections 3511 and 3513, mammals in Section 4700, and reptiles and amphibians in Section 5050) and strictly prohibit the take of these species. CDFW cannot issue a take permit for fully protected species, except under narrow conditions for scientific research or the protection of livestock, or if an NCCP has been adopted.

California Environmental Quality Act Guidelines § 15380 – Unlisted Species Worth of Protection

The CEQA Guidelines provide that a species that is not listed on the federal or state endangered species list may nevertheless be considered rare or endangered if the species meets certain criteria. (CEQA Guidelines § 15380) Species that are not listed under FESA or CESA, but are otherwise eligible for listing (i.e. candidate, or proposed) may be protected by the local government until the opportunity to list the species arises for the responsible agency.

Species that may be considered for review are included on a list of "Species of Special Concern," developed by the CDFW. Additionally, the California Native Plant Society (CNPS), a nongovernmental organization, maintains a list of plant species native to California that have low populations, limited distribution, or are otherwise threatened with extinction. This information is published in the Inventory of Rare and Endangered Vascular Plants of California. List 1A contains plants that are believed to be extinct. List 1B contains plants that are rare, threatened, or endangered in California and elsewhere. List 2 contains plants that are rare, threatened, or endangered in California, but more numerous elsewhere.

Public Resources Code § 21083.4 - Oak Woodlands Conservation

In 2004, the California legislature enacted SB 1334, which added oak woodland conservation regulations to the Public Resources Code. This new law requires a county to determine whether a project, within its jurisdiction, may result in a conversion of oak woodlands that will have a significant effect on the environment. If a county determines that there may be a significant effect to oak woodlands, the county must require oak woodland mitigation alternatives to mitigate the significant effect of the conversion of oak woodlands. Such mitigation alternatives include: conservation through the use of conservation easements; planting and maintaining an appropriate number of replacement trees; contribution of funds to the Oak Woodlands Conservation Fund for the purpose of purchasing oak woodlands conservation easements; and/or other mitigation measures developed by the county.

California Wetlands Conservation Policy

In August 1993, the Governor announced the "California Wetlands Conservation Policy." The goals of the policy are to establish a framework and strategy that will:

- Ensure no overall net loss and to achieve a long-term net gain in the quantity, quality, and permanence of wetland acreage and values in California in a manner that fosters creativity, stewardship, and respect for private property.
- Reduce procedural complexity in the administration of State and federal wetland conservation programs.
- Encourage partnerships to make landowner incentive programs and cooperative planning efforts the primary focus of wetland conservation and restoration.

The Governor also signed Executive Order W-59-93, which incorporates the goals and objectives contained in the new policy and directs the Resources Agency to establish an Interagency Task Force to direct and coordinate administration and implementation of the policy.

Natural Community Conservation Planning Act

The Natural Community Conservation Planning Act provides long-term protection of species and habitats through regional, multi-species planning before the special measures of the CESA become necessary.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.) is California's primary water quality control statute. But its protections extend to wetlands, and in some instances wetlands that are not subject to federal jurisdiction under the Clean Water Act. Under the Porter-Cologne Act definition, waters of the state are "any surface water or groundwater, including saline waters, within the boundaries of the state." (Wat. Code, § 13050[e].) Although all waters of the United States that are within the borders of California are also waters of the state, the reverse is not necessarily true. Therefore, California retains authority to regulate discharges of waste into any waters of the state, discharges to receiving waters more broadly than the CWA does.

Waters of the state fall under the jurisdiction of the nine Regional Water Quality Control Boards (RWQCBs). Under Porter-Cologne, each RWQCB must prepare and periodically update water quality control basin plans. Each basin plan sets forth water quality standards for surface water and groundwater, as well as actions to control nonpoint and point sources of pollution. California Water Code Section 13260 requires any person discharging waste, or proposing to discharge waste, in any region that could affect the waters of the state to file a report of discharge (an application for waste discharge requirements [WDRs]) with the applicable RWQCB. Construction activities that may discharge wastes into the waters of the state must meet the discharge control requirements of the Porter-Cologne Act.

On April 2, 2019, the State Water Resources Control Board (State Water Board) adopted Resolution 2019-0015, thereby adopting a document entitled, "State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State" ("Procedures") for inclusion in the Water Quality Control Plans for Inland Surface Waters, Enclosed Bays, and Estuaries of California.[2]

In taking this action, the State Water Board noted that under the Porter-Cologne Water Quality Control Act (Porter-Cologne Act) (Wat. Code, Div. 7, § 13000 et seq.), discharges of dredged or fill material to waters of the state are subject to waste discharge requirements or waivers thereof. The State Water Board further explained that "although the state has historically relied primarily on requirements in the Clean Water Act to protect wetlands, U.S. Supreme Court rulings reducing the jurisdiction of the Clean Water Act over wetland areas by limiting the definition of 'waters of the United States' have necessitated the use of California's independent authorities under the Porter-Cologne Act to protect these vital resources."

The Office of Administrative Law (OAL) approved the Procedures on August 28, 2019. Pursuant to the Procedures, the effective date is nine months upon OAL approval. Accordingly, the Procedures were effective May 28, 2020.

[2] See: https://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/procedures_conformed.pdf

By adopting the Procedures, the State Water Board mandated and standardized the evaluation of impacts and protection of waters of the state from impacts due to dredge and fill activities. The Procedures include: 1) a wetland definition; 2) a jurisdictional framework for determining if a feature that meets the wetland definition is a water of the state; 3) wetland delineation procedures; and 4) procedures for application submittal, and the review and approval of dredge or fill activities.

The Procedures define an area as a wetland if it meets three criteria: wetland hydrology, wetland soils, and (if vegetated) wetland plants. An area is a wetland if: (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

Waters of the State, by definition, includes more aquatic features than Waters of the U.S., which defines the jurisdiction of the federal government. Waters of the State are not so limited. In addition, the federal definition of a wetland requires a prevalence of wetland vegetation under normal circumstances. To account for wetlands in arid portions of the state, the State Water Board's definition differs from the federal definition in that an area may be a wetland even if it does not support vegetation. If vegetation is present, however, the State Water Board's definition requires that the vegetation be wetland vegetation. The State Water Board's definition clarifies that vegetated and unvegetated wetlands will be regulated in the same manner.

The Procedures also include a jurisdictional framework that applies to aquatic features that meet the wetland definition. The jurisdictional framework will guide applicants and staff in determining whether an aquatic feature that meets the wetland definition will be regulated as a water of the state. The jurisdictional framework is intended to exclude from regulation any artificially-created, temporary features, such as tire ruts or other transient depressions caused by human activity, while still capturing small, naturally-occurring features, such as seasonal wetlands and small vernal pools that may be outside of federal jurisdiction. The Procedures do not expand the State Water Board's jurisdiction beyond areas already under State Water Board's jurisdiction.

The Procedures exclude the following agricultural features from the protections accorded to wetlands: (1) ditches with ephemeral flow that are not a relocated water of the state or excavated in a water of the state; (2) ditches with intermittent flow that are not a relocated water of the state or excavated in a water of the state, or that do not drain wetlands other than any wetlands described in (4) or (5) below; (3) ditches that do not flow, either directly or through another water, into another water of the state; (4) artificially irrigated areas that would revert to dry land should application of waters to that area cease; or (5) artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, and settling basins.

The Procedures clarify what information and analysis the applicant needs to submit to have a complete application. The Procedures standardize when an alternative analysis needs to be conducted and set a minimum mitigation ratio for any permanent impacts to waters of the state resulting from dredge and fill activities.

When an alternatives analysis is required, the applicant must demonstrate that the proposed alternative is the Least Environmentally Damaging Practicable Alternative (LEDPA). The term practicable means available and capable of being done after taking into consideration cost, existing technology, and other logistics in light of the overall project purpose.

Water Quality Control Plan for the Sacramento-San Joaquin River Basins

The Water Quality Control Plan for the Sacramento-San Joaquin River Basins (Basin Plan), most recently revised in May 2018 by the CVRWQCB in 1998, identifies the beneficial uses of water bodies and provides water quality objectives and standards for waters of the Sacramento River and San Joaquin River Basins, including the Delta.

State and federal laws mandate the protection of designated "beneficial uses" of water bodies. State law defines beneficial uses as "domestic; municipal; agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves" (Water Code Section 13050[f]). Additional protected beneficial uses of the San Joaquin River include groundwater recharge and fresh water replenishment.

CDFW Staff Report on Burrowing Owl Mitigation

The CDFW has designated certain species as "species of special concern" when their population viability and survival is adversely affected by risk factors such as precipitous declines or other vulnerability factors (Shuford and Gardali 2008). Preliminary analyses of regional patterns for breeding populations of burrowing owls (*Athene cunicularia*) have detected declines both locally in their central and southern coastal breeding areas, and statewide where the species has experienced modest breeding range retraction (Gervais et al. 2008). In California, threat factors affecting burrowing owl populations include habitat loss, degradation and modification, and eradication of ground squirrels resulting in a loss of suitable burrows required by burrowing owls for nesting, protection from predators, and shelter.

The CDFW recognized the need for a comprehensive conservation and mitigation strategy for burrowing owls, and in 1995 directed staff to prepare a report describing mitigation and survey recommendations. This report, "1995 Staff Report on Burrowing Owl Mitigation" (Staff Report) (CDFG 1995), contained CDFW-recommended burrowing owl and burrow survey techniques and mitigation measures intended to offset the loss of habitat and slow or reverse further decline of this species. Notwithstanding these measures, over the subsequent 15+ years, burrowing owls continued to decline in portions of their range (DeSante et al. 2007, Wilkerson and Siegel, 2010). The CDFW therefore determined that reversing declining population and range trends for burrowing owls required implementation of more effective conservation actions, and evaluate the efficacy of the CDFW's pre-existing recommended avoidance, minimization and mitigation approaches for burrowing owls. As such, the CDFW updated the 1995 Staff Report in 2012.

The CDFW has identified three main actions that together will facilitate a more viable, coordinated, and concerted approach to conservation and mitigation for burrowing owls in California. These include:

1. Incorporating burrowing owl comprehensive conservation strategies into landscape-based planning efforts such as Natural Community Conservation Plans (NCCPs) and multi-species Habitat Conservation Plans (HCPs) that specifically address burrowing owls.
2. Developing and implementing a statewide conservation strategy (Burkett and Johnson, 2007) and local or regional conservation strategies for burrowing owls, including the development and implementation of a statewide burrowing owl survey and monitoring plan.
3. Developing more rigorous burrowing owl survey methods; working to improve the adequacy of impacts assessments; developing clear and effective avoidance and minimization measures; and developing mitigation measures to ensure impacts to the species are effectively addressed at the project, local, and/or regional level (the focus of this document).

The Staff Report on Burrowing Owl Mitigation (2012) sets forth the CDFW's recommendations for implementing the third approach identified above by revising the 1995 Staff Report, drawing from the most relevant and current knowledge and expertise, and incorporating the best scientific information. General strategies for mitigation include the following: designing projects to avoid negative impacts and disturbances that could result in take of burrowing owls, nests, or eggs; conducting take avoidance (pre-construction) surveys to detect the presence of burrowing owls on a project site at a fixed period in time in order to inform necessary take avoidance actions; engaging in site surveillance to ascertain whether burrowing owls may be attempting to colonize or re-colonize an area that will be impacted; minimizing impacts through the use of buffer zones, visual screens, or other measures while project activities are occurring; undertaking minimization measures such as eliminating actions that reduce burrowing owl forage and burrowing surrogates (e.g. ground squirrels); using burrow exclusion measures such as installing one-way doors in burrow openings during the non-breeding season to temporarily exclude burrowing owls, or permanently excluding burrowing owls and closing burrows after verifying the burrows are empty; restoration of temporarily disturbed habitat to pre-project conditions; replacing or otherwise compensating for permanently impacted habitat; and creating artificial burrows to replace natural burrows.

LOCAL

City of Lathrop General Plan

POLICIES: RECREATION AND RESOURCES ELEMENT

- RR-4.1: Sensitive Communities. Protect, conserve, and enhance Lathrop's biological resources, with a special focus on sensitive, rare, or endangered plant and wildlife species in accordance with state and federal resource agency requirements.
- RR-4.2: Habitat Conservation. Support habitat conservation efforts to set aside and preserve suitable habitats, with priority given to habitats for rare and endangered species in accordance with state and federal resource agency requirements.
- RR-4.3: Native Species. Conserve existing native trees and vegetation where possible and encourage the use of native species in development and infrastructure projects.

- RR-4.4: Natural Water Bodies and Drainage Systems. Limit the disturbance of natural water bodies and drainage systems in Lathrop by conserving natural open space areas, protecting channels, and minimizing the impacts from stormwater and urban runoff.
- RR-4.6: Urban Forest. To the extent feasible, build upon existing streetscapes and develop an urban forest along the City's major corridors and in residential neighborhoods to provide avian habitat, sequester carbon emissions, foster pedestrian activity, and provide shade.
- RR-4.11: Development. Require that all new development identify potential impacts to existing biological resources and provide mitigation measures as necessary pursuant to CEQA in order to protect these resources from negative externalities.

ACTIONS: RECREATION AND RESOURCES ELEMENT

- RR-4a: Cooperate with state, federal, and local agencies to ensure that development does not cause significant adverse impacts to existing riparian corridors.
- RR-4b: Require new development, infrastructure, long-range planning, and similar projects, to comply with the requirements of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan to ensure that potentially significant impacts to special-status species and sensitive resources are adequately addressed.
- RR-4c: Require new development which has the potential to result in water quality impacts to the City's waterways and the local groundwater basin to implement all feasible mitigation measures to reduce impacts.
- RR-4e: Where sensitive biological habitats have been identified on or immediately adjacent to a project site, the project shall include appropriate mitigation measures identified by SJMSCP, which may include, but are not limited to the following:
    A. Pre-construction surveys for species listed under the State or Federal Endangered Species Acts, or species identified as special-status by the resource agencies, shall be conducted by a qualified biologist;
    B. Construction barrier fencing shall be installed around sensitive resources and areas identified for avoidance or protection, and to reduce potential soil compaction in sensitive areas; and
    C. Pre-Construction training of contractors and sub-contractors shall be conducted by a qualified biologist to identify and avoid protected species and habitat.
- RR-7d: Review and regulate new development, infrastructure, and levee improvement projects to ensure consistency with Federal and State flood and floodway requirements, including BDCP and Delta Plan policies as applicable.

San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

A Habitat Conservation Plan (HCP) is a federal planning document that is prepared pursuant to Section 10 of the FESA. An approved HCP within a defined plan area allows for the incidental take of species and habitat that are otherwise protected under FESA during development activities.

A Natural Community Conservation Plan (NCCP) is a state planning document administered by CDFW. An approved NCCP within a defined plan area allows for the incidental take of species and habitat that are otherwise protected under CESA during growth and development activities.

BACKGROUND

The key purpose of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP), is to provide a strategy for balancing the need to conserve Open Space and the need to Convert Open Space to non-Open Space uses while protecting the region's agricultural economy; preserving landowner property rights; providing for the long-term management of plant, fish and wildlife species, especially those that are currently listed, or may be listed in the future, under the Federal Endangered Species Act (ESA) or the CESA; providing and maintaining multiple-use Open Spaces which contribute to the quality of life of the residents of San Joaquin County; and accommodating a growing population while minimizing costs to Project Proponents and society at large.

San Joaquin County's past and future (2001-2051) growth has affected and will continue to affect 97 special status plant, fish and wildlife species in 52 vegetative communities scattered throughout San Joaquin County's 1,400+ square miles and 900,000+ acres, which include 43 percent of the Sacramento-San Joaquin Delta's Primary Zone. The SJMSCP, in accordance with ESA Section 10(a)(1)(B) and CESA Section 2081(b) Incidental Take Permits, 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, hereinafter referred to as "SJMSCP Covered Species". In addition, the SJMSCP provides some compensation to offset the impacts of open space land conversions on non-wildlife related resources such as recreation, agriculture, scenic values and other beneficial Open Space uses.

The SJMSCP compensates for Conversions of Open Space for the following activities: urban development, mining, expansion of existing urban boundaries, non-agricultural activities occurring outside of urban boundaries, levee maintenance undertaken by the San Joaquin Area Flood Control Agency, transportation projects, school expansions, non-federal flood control projects, new parks and trails, maintenance of existing facilities for non-federal irrigation district projects, utility installation, maintenance activities, managing Preserves, and similar public agency projects. These activities will be undertaken by both public and private individuals and agencies throughout San Joaquin County and within the County's incorporated cities of Escalon, Manteca, Lathrop, Lodi, Manteca, Ripon, Stockton and Tracy. Public agencies including Caltrans (for transportation projects), and the San Joaquin Council of Governments (for transportation projects) also will undertake activities which will be covered by the SJMSCP. In addition, 5,340 acres is allocated for anticipated projects (e.g., annexations, general plan amendments)

The 97 SJMSCP Covered Species include 25 state and/or federally listed species. The SJMSCP Covered Species include 27 plants (6 listed), 4 fish (2 listed), 4 amphibians (1 listed), 4 reptiles (1 listed), 33 birds (7 listed), 15 mammals (3 listed) and 10 invertebrates (5 listed).

IMPLEMENTATION

The SJMSCP is administered by a Joint Powers Authority consisting of members of the San Joaquin County Council of Governments (SJCOG), the CDFW, and the USFWS. Development project applicants are given the option of participating in the SJMSCP as a way to streamline compliance with required local, State and federal laws regarding biological resources, and typically avoid having to approach each agency independently. According to the SJMSCP, adoption and implementation by local planning jurisdictions provides full compensation and mitigation for impacts to plants, fish and wildlife. Adoption and implementation of the SJMSCP also secures compliance pursuant to the state and federal laws such as CEQA, the National Environmental Policy Act (NEPA), the Planning and Zoning Law, the State Subdivision Map Act, the Porter-Cologne Act and the Cortese-Knox Act in regard to species covered under the SJMSCP.

Applicants pay mitigation fees on a per-acre basis, as established by the Joint Powers Authority according to the measures needed to mitigate impacts to the various habitat and biological resources. Different types of land require different levels of mitigation; i.e., one category requires that one acre of a similar land type be preserved for each acre developed, while another type requires that two acres be preserved for each acre developed. The entire County is mapped according to these categories so that landowners, project proponents and project reviewers are easily aware of the applicable SJMSCP fees for the proposed development.

The appropriate fees are collected by the City and remitted to SJCOG for administration. SJCOG uses the funds to preserve open space land of comparable types throughout the County, often coordinating with other private or public land trusts to purchase conservation easements or buy land outright for preservation. Development occurring on land that has been classified under the SJMSCP as “no-pay” would not be required to pay a fee. This category usually refers to already urbanized land and infill development areas. Although the fees are automatically adjusted on an annual basis, based on the construction cost index, they often cannot keep pace with the rapidly rising land prices in the Central Valley.

City of Lathrop Municipal Code

The Lathrop Municipal Code provides rules and regulations to protect water courses (Chapter 12.28) and to manage and control stormwater and discharge (Chapter 13.28). Section 13.28.130 specifically provides requirement to prevent, control and reduce stormwater pollutants. This includes requirements to implement best management practices to the extent they are technologically achievable to prevent and reduce pollutants.

Additionally, Chapter 12.16 outlines requirements related to trees, including planting and removing trees. The Chapter is adopted to preserve, protect and promote the public health, safety, peace, comfort, convenience, prosperity and general welfare. More specifically, the Chapter is intended to achieve the following:

A. To provide a comprehensive plan for the planting, replanting, removal and maintenance of trees within designated public streets, including arterial and collector streets and streets providing access to public facilities;

B. To establish and maintain a pattern of street trees within all public streets which will enhance the living and working area of the city, enhance real property values, conserve energy, reduce glare, diminish the effects of vehicular noise, and avoid hazards to street improvements and to public safety occasioned by trees which are of such physical location or condition as to constitute a public nuisance. (Ord. 92-89)

3.4.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

CEQA Guidelines Appendix G is a sample Initial Study checklist that includes number of factual inquiries related to the subject of biological resources, as it does on a whole series of additional environmental topics. Notably, lead agencies are under no obligation to use these inquiries in fashioning thresholds of significance on the subject of air quality impacts, or indeed on any subject addressed in the checklist. (*Save Cuyama Valley v. County of Santa Barbara* (2013) 213 Cal.App.4th 1059, 1068.) Rather, with few exceptions, "CEQA grants agencies discretion to develop their own thresholds of significance." (*Ibid*.) Even so, it is a common practice for lead agencies to take the language from the inquiries set forth in Appendix G and to use that language in fashioning thresholds. The City has done so here, though it has exercised its discretion to modify the language of the Appendix G threshold addressing impacts to wetlands so that it applies not only to federally-protected wetlands, but also to wetlands that are protected under State law (the reach of which is sometimes broader than federal law).

Although CEQA generally gives agencies considerable discretion in fashioning significance thresholds, there are some thresholds that must, as a matter of law, be used by public agencies. Many of these relate to biological resources, and are found in CEQA Guidelines section 15065 ("Mandatory Findings of Significance").

Finally, the City is aware that neither Appendix G nor section 15065 sets forth language directly addressing potential effects on birds of prey or nesting birds due to violation of laws (described earlier) intended to protect them. The City has therefore exercised its discretion to formulate a threshold to address this particular category of impact.

In light of the foregoing, for purposes of this EIR, a significant impact would occur if implementation of the Project would:

- 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 an endangered, rare or threatened species;
- 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 Wildlife or U.S. Fish and Wildlife Service;

- 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 Wildlife or U.S. Fish and Wildlife Service;
- Have a substantial adverse effect on federally - or state- protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
- 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;
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance;
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan;
- Result in the take or destruction of any nesting birds or birds of prey or the nest or eggs of such birds.

IMPACTS AND MITIGATION

Impact 3.4-1: The proposed Project would not have a substantial direct or indirect effect on special-status invertebrate species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of an animal community, or a drop in population levels below self-sustaining levels. (Less than Significant with Mitigation)

According to the CNDDB, there are 11 special-status invertebrates that are documented within the nine-quadrangle Project region, including: California linderiella (*Linderiella occidentalis*), crotch bumble bee (*Bombus crotchii*), conservancy fairy shrimp (*Branchinecta conservation*), molestan blister beetle (*Lytta molesta*), Sacramento anthicid beetle (*Anthicus sacramento*), San Joaquin Valley giant flower-loving fly (*Rhaphiomidas trochilus*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western ridged mussel (Gonidea angulate), and western bumble bee (*Bombus occidentalis*). As noted in Table 3.4-2, five of these are covered species under the SJMSCP.

The potential to have a substantial direct or indirect effect on special-status invertebrate species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of an invertebrate community, or a drop in population levels below self-sustaining levels, is discussed below.

VERNAL POOL INVERTEBRATES

California linderiella (*Linderiella occidentalis*) exclusively inhabit vernal pools or other seasonally ponded wetlands that sustain inundation during the winter before drying in the late spring.

Western ridged mussel (*Gonidea angulate*) occurs primarily in creeks and rivers and less often lakes and was originally in most of state but is now extirpated from Central and Southern California. The Project site does not provide suitable habitat for these species.

Vernal pool fairy shrimp (VPFS) is a federal threatened invertebrate found in the Central Valley, central and south Coast Ranges from Tehama County to Santa Barbara County. They are commonly found in vernal pools and in sandstone rock outcrop pools. VPFS is not anticipated to be directly affected by any individual phase or component of the proposed Project because there is not appropriate vernal pool habitat in the Project site.

Vernal pool tadpole shrimp (VPTS) is a federal endangered invertebrate found in vernal pools and stock ponds from Shasta County south to Merced County. VPTS is not anticipated to be directly affected by any individual phase or component of the proposed Project because there is not appropriate vernal pool habitat in the Project site.

BEES AND FLIES

Crotch bumble bee (*Bombus crotchii*), western bumble bee (*Bombus occidentalis*), and San Joaquin Valley giant flower-loving fly (*Rhaphiomidas trochilus*) may occur in the region, and in the Project area at times. Crotch bumble bee and San Joaquin Valley giant flower-loving fly are tracked by CDFW, but are not specifically protected under state or federal law. Western bumble bee is a federally threatened species.

The crotch bumble bee occurs primarily in California, including the Mediterranean region, Pacific Coast, Western Desert, Great Valley, and adjacent foothills through most of southwestern California. It also occurs in Mexico (Baja California and Baja California Sur) and has been documented in southwest Nevada, near the California border. Their natural habitat is grassland and scrub areas, requiring a hotter and drier environment than other bumblebee species. This species can only tolerate a very narrow range of climatic conditions. This is a non-migratory species of bumble bee that nests underground, often in abandoned rodent dens.

The western bumble bee was once one of the most common bee species in the North West America. They have been found from the Mediterranean California all the way up to the Tundra regions of Alaska, making them one of the bees with the widest range geographic range. In the past decade, the population of has dropped over 40% and has been especially significant in the Pacific states from California to Washington. Declines have been attributed to a parasite, as well as an increase in the honeybees. Their natural habitat is shrubland, grassland, and artificial/terrestrial areas. They have been observed on a wide variety of plans in open grassy areas, urban parks and gardens, chaparral and shrub areas, and mountain meadows. This species is considered to be a more effective pollinator than honeybees and they have been commercially reared to pollinate crops such as alfalfa, avocados, apples, cherries, blackberries, cranberries, and blueberries.

Although not “natural habitat”, the existing agricultural fields and orchards provide habitat for these bumble bee species. It is noted, however, that habitat for bumble bee species would be provided after development on-site within landscaped areas, with the western bumble bee most likely to utilize these areas.

The San Joaquin Valley giant flower-loving fly are historically known from, and endemic to, sandy soils of the San Joaquin Valley from Antioch Dunes in Contra Costa County south to Sand Ridge in Kern County. This species is associated with sandy soils such as riverine deposits and sand dunes with relatively sparse vegetation. Adults do not visit flowers/nectar. Females deposit eggs in and on the surface of sandy soil. Larvae burrow in fine sands up to 10 feet deep and are known to live for three years prior to pupation. The Project site does not provide appropriate habitat for this species.

BEETLES

Essential habitat for Molestan blister beetle and Sacramento anthicid beetle is not present in the Project area. The proposed Project is not expected to have a significant impact on these species.

Valley elderberry longhorn beetle (VELB) is a federal threatened insect, proposed for delisting. Elderberry (*Sambucus* sp.), which is a primary host species for valley elderberry longhorn beetle (VELB) is a common plant found throughout the region, but especially in riparian zones. One occurrence of this species exists over four miles from the site. There are no elderberry plants located within the agricultural fields, or otherwise in areas that would be developed. VELB is not anticipated to be directly affected by any individual phase or component of the proposed Project because there is not appropriate habitat in the Project site.

CONCLUSION

Habitat for California California linderiella (*Linderiella occidentalis*), conservancy fairy shrimp (*Branchinecta conservation*), molestan blister beetle (*Lytta molesta*), Sacramento anthicid beetle (*Anthicus sacramento*), San Joaquin Valley giant flower-loving fly (*Rhaphiomidas trochilus*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardi*), western ridged mussel (Gonidea angulate), and western bumble bee (*Bombus occidentalis*) is not found on-site.

Potential habitat for crotch bumble bee (*Bombus crotchii*) is found on-site. This species is not covered under the SJMSCP. Mitigation Measure 3.4-1 requires preconstruction survey for special-status bumble bees and avoidance and mitigation measures should bumble bees be found. With implementation of this mitigation measure, the proposed Project would have a ***less than significant*** impact on special-status invertebrate species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of an invertebrate community, or a drop in population levels below self-sustaining levels.

MITIGATION MEASURE(S)

Mitigation Measure 3.4-1: *The Project applicant shall implement the following measure to avoid or minimize impacts on special-status bumble bees:*

- *A qualified biologist(s) shall conduct a preconstruction survey with 7 days of the commencement of work. If special-status bees of any species are observed, they shall be*

photographed for identification. If construction begins between March 1 and November 1, the ground shall also be searched during the survey for active bumble bee colonies. If bee colonies are identified, these colonies shall be demarcated with a flagged avoidance buffer, as determined by a qualified biologist and shall be avoided during the active season from March 1 through November 1, or until the qualified biologist has determined that the colony is no longer active or until the colony is relocated.

Impact 3.4-2: The proposed Project has the potential to have substantial direct or indirect effects on special-status reptile and amphibian species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a reptile or amphibian community, or a drop in population levels below self-sustaining levels. (Less than Significant with Mitigation)

According to the CNDDB, there are nine special-status amphibian and reptile species that are documented within the nine-quadrangle Project region, the: California glossy snake (*Arizona* elegans occidentalis), western pond turtle (*Emys marmorata*), San Joaquin coachwhip (*Masticophis flagellum ruddocki*), giant gartersnake (*Thamnophis gigas*), coast horned lizard (*Phrynosoma blainvillii*), California tiger salamander (*Ambystoma californiense* [*A. tigrinum c.*]), foothill yellow-legged frog (*Rana boylii*), California red-legged frog (*Rana aurora draytoni*), and western spadefoot (*Spea hammondii*). As noted in Table 3.4-3, all of the amphibians are covered species under the SJMSCP. Three of the five reptiles are covered species under the SJMSCP.

The potential to have a direct or indirect substantial effect on special-status reptile and amphibian species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a reptile or amphibian community, or a drop in population levels below self-sustaining levels, is discussed below.

California Glossy Snake: The California glossy snake is a California Species of Special Concern and is most common in desert habitats but also occur in chaparral, sagebrush, valley-foothill hardwood, pine-juniper, and annual grass at elevations from below sea level to 1830 m. This species prefers open sandy areas with scattered brush, as well as rocky areas. Primarily nocturnal, glossy snakes spend periods of inactivity during the day and during winter in mammal burrows and rock outcrops, and to a lesser extent under surface objects such as flat rocks and vegetation residue.

According to the CNDDB, there are no documented occurrences within 15 miles of the site. The Project site does not contain open sandy areas with scattered brush or rocky areas. Regular disking and mowing on-site for agriculture and weed/vegetation abatement is a regular disturbance to refuge and foraging habitat. There is no potential for this species to occur on-site and the California glossy snake is presumed absent from the site. Therefore, the proposed Project would have a ***less than significant*** impact on the California glossy snake species.

California Tiger Salamander: The federally and State-listed Threatened California tiger salamander (CTS) is a large terrestrial salamander. It occurs in central California from the Sacramento Valley to

the south-central San Joaquin Valley, and in the surrounding foothills of both the Coast Ranges and the Sierra Nevada Mountains. CTS are also recorded from the San Francisco Bay region, Sonoma County, the Monterey Bay region, and the valleys and foothills of San Luis Obispo and Santa Barbara counties.

CTS breed in temporary wetland pools, such as vernal pools, and other seasonal wetland bodies where ponded water is present for a minimum of three to four months, extending into the early spring. Such ponds and temporary wetlands provide necessary breeding and larval-stage habitat for the species. Adults spend most of the year in aestivation, underground in the burrows of small mammals, such as the California ground squirrel and/or Botta's pocket gopher, or within other suitable subterranean retreats. They emerge at night during winter rain events for brief periods to breed (Trenham et al. 2001). Aquatic juveniles (larvae) are mostly herbivorous (Stebbins 1985). CTS normally begin to reproduce after three to five years.

There are no CNDDB records or mapped occurrences of CTS within four miles of the Project site. According to the CNDDB, the nearest occurrence of CTS is approximately 4.7 miles south of the Project site south of SR 120. In 1996, about 50 larvae were observed in a seasonal pond that was created by the berm of SR 120. It is anticipated that CTS adults will disperse at night up to 1.3 miles to refuge sites. Because the Project site is over four miles away, and because the occurrences were documented 27 years ago, it is highly unlikely that the CTS observed in this area would travel to the Project site. There are no other known CTS breeding sites in the vicinity.

While there is no potential for CTS to occur within the Project site, the Project applicant will be required to obtain coverage under the SJMSCP. The CTS is a covered species under the SJMCP. The Project site does not provide suitable habitat for this species.

The CTS is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to CTS would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Foothill Yellow Legged Frog: The Foothill yellow-legged frog (FYLF) is a State candidate for listing as Threatened. They occur in partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. They need at least some cobble-sized substrate for egg-laying and at least 15 weeks to attain metamorphosis. Adults often bask on exposed rock surfaces near streams. When disturbed, they dive into the water and take refuge under submerged rocks or sediments. During periods of inactivity, especially during cold weather, individuals seek cover under rocks in the streams or on shore within a few meters of water. Egg clusters are attached to gravel or rocks in moving water near stream margins. Unlike most other ranid frogs in California, this species is rarely encountered (even on rainy nights) far from permanent water. Tadpoles require water for at least three or four months while completing their aquatic development. Significant seasonal movements or migrations from breeding areas have not been reported. Normal home ranges are probably less than 10 m (33 ft) in the longest dimension. Occasional long-distance movements (up to 50 m) (165 ft) may occur during periods with high water conditions. Breeding and egg laying usually await the end of spring flooding and may commence any time from mid-March to May,

depending on local water conditions. The breeding season at any locality is usually about two weeks for most populations. Females deposit eggs in clusters of 200 to 300 (range 100 to 1000). They hatch in about five days. Tadpoles reach maximum sizes of 50 to 55 mm (2.2 in) and transform in three to four months.

FYLF is known to occur in aquatic habitats, such as creeks or rivers in woodland, forest, mixed chaparral, and wet meadow habitats with rock and gravel substrate and low overhanging vegetation along the edge. They are usually found near riffles with rocks and sunny banks nearby. The FYLF is not documented in the immediate vicinity of the Project site. Additionally, the Project site does not provide the necessary habitat for FYLF.

The FYLF is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to FYLF would be ***less than significant*** through compliance with Mitigation Measure 3.4-1, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

California Red-Legged Frog: The federally-listed Threatened and California Species of Special Concern California red-legged frog (CRLF) occurs in lowlands and foothills primarily in perennial or ephemeral ponds, pools, and streams where water remains long enough (14 to 28 weeks) for breeding and metamorphosis of tadpoles. Specific breeding sites include streams, creeks, ponds, marshes, sag ponds, deep pools, backwater areas, dune ponds, lagoons, and estuaries. Habitats with the highest densities of CRLF often contain dense emergent or shoreline riparian vegetation closely associated with fairly shallow (< 0.5 meter) to deep (> 0.5 meter), still or slow-moving water (USFWS 2002). CRLF may disperse from their aquatic breeding habitats to upland habitats during the dry season. They prefer upland habitats that provide moisture to prevent desiccation and protection from predators including downed logs, woody vegetation, boulders, moist leaf litter, or other refugia during the dry season. When there is sufficient water at their breeding location, they may remain in aquatic habitats year-round instead of moving to adjacent uplands. During wet seasons, frogs can move long distances between habitats, traversing upland areas or ephemeral drainages. Dispersal distances are typically less than 0.5 km (0.3 mile), with a few individuals moving 2.0 to 3.6 kilometers (1.2 to 2.2 miles). Seeps and springs in open grasslands can function as foraging habitat or refugia for wandering frogs (Jennings and Hayes 1994).

There are no CNDDB occurrences within 15 miles of the Project site. The Project site does not provide suitable habitat. Because the closest documented occurrences within the Project vicinity are outside of the dispersal range of CRLF and the Project site has no suitable habitat, there is a low potential for CRLF to occur on-site. This species is not documented on and has not been observed on the Project site.

The CRLF is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to CRLF would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Giant Garter Snake: The giant garter snake (*Thamnophis gigas*) is a federal and state listed threatened species. Essential giant garter snake habitat components consist of 1) adequate water during early spring through mid-fall to provide prey base and cover, 2) emergent wetland vegetation for escape cover and foraging habitat, 3) uplands for basking and retreat sites, and 4) higher elevation upland for cover and flood refugia. The USFWS considers areas within 200 feet of aquatic habitat to represent potential upland habitat. Additionally, the USFWS identifies various levels of impact to giant garter snake habitat, from temporary to permanent, and applies mitigation requirements accordingly.

The closest occurrence of this species is approximately 6.0 miles northwest of the Project area or further, near the Port of Stockton. There are no CNDDB records of this species in Lathrop, Manteca, or Tracy. There is no habitat for this species on site and they are presumed absent from the site.

The giant garter snake is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to giant garter snake would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Western Spadefoot: The California Species of Special Concern western spadefoot occurs primarily in grassland habitats, but can also be found in valley-foothill hardwood woodlands. The western spadefoot requires shallow, temporary pools or streams during breeding season and egg-laying. Where natural vernal pools are absent, western spadefoots may make use of artificial ponds and stock tanks. Most of the year, western spade foots reside in burrows at depths of up to 3 feet. Adult western spadefoot movement is limited to rainy or humid nights during the breeding season; adults are rarely found on the surface at other times of the year. This species feeds mainly on invertebrates such as insects and worms.

There are no CNDDB records of this species within four miles of the Project site. Additionally, appropriate habitat for this species is not found in the Project site, and this species has no potential to occur on-site. There is no potential for this species to occur on-site and the western spadefoot is presumed absent from the site. Therefore, the proposed Project would have a ***less than significant*** impact on the western spadefoot species.

Western Pond Turtle: The western pond turtle (*Emys marmorata*) is a California Species of Special Concern. Its favored habitats include streams, large rivers and canals with slow-moving water, aquatic vegetation, and open basking sites. Although the turtles must live near water, they can tolerate drought by burrowing into the muddy beds of dried drainages. This species feeds mainly on invertebrates such as insects and worms, but will also consume small fish, frogs, mammals and some plants. Western pond turtle predators include raccoons, coyotes, raptors, weasels, large fish, and bullfrogs. This species breeds from mid to late spring in adjacent open grasslands or sandy banks.

The necessary habitat for this species is not present within the Project site, and this species has no potential to occur on-site. The Project site could provide some upland habitat, including nesting

opportunities during fallow periods, however, active agricultural activities in the immediate vicinity, as well as regular disking for weed abatement on-site, largely inhibit upland nesting for this species. The western pond turtle is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to western pond turtle would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

San Joaquin Coachwhip: The San Joaquin coachwhip is a California Species of Special Concern due to extensive habitat loss and fragmentation in its restricted range, including conversion of large areas of suitable habitat to agricultural use in the San Joaquin Valley and urban development in areas of the inner Coast Ranges. The San Joaquin coachwhip occurs generally in dry, desert-like habitats as well as grasslands, chaparral and pastures with little or no cover, and avoids dense vegetation where it cannot move quickly, including mixed oak chaparral woodland.

According to the CNDDB records search, there are no documented occurrences within 16-miles of the Project site. The Project site is currently undeveloped with some previous disturbance associated with the former buildings. The site has been previously used for agricultural uses. Previous disking on-site for agriculture likely eliminated the snake's food base and the mammal burrows it uses for refuge; therefore, this species has a low potential to occur. The San Joaquin coachwhip is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to the San Joaquin coachwhip would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Coast Horned Lizard: The coast horned lizard is a California Species of Special Concern that is not an uncommon species in the region even in the absence of records. This species requires loose sandy soil in which it can rapidly dig in order to avoid predators. The soils of the Project site are generally too heavy in clays for this type of digging by horned lizards. In addition, farming practices have disturbed the majority of the topsoil. Therefore, this species is presumed absent from the Project site, even though they are fairly common in the region. There are no CNDDB records within 15 miles of the site. Therefore, the proposed Project would have a ***less than significant*** impact on the coast horned lizard species.

MITIGATION MEASURE(S)

Mitigation Measure 3.4-2*: Prior to commencement of any grading activities, the Project proponent shall obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species. Coverage involves compensation for habitat impacts on covered species through implementation of incidental take and minimization Measures (ITMMs) and payment of fees for conversion of lands that may provide habitat for covered special status species. These fees are used to preserve and/or create habitat in preserves to be managed in perpetuity. Obtaining coverage for a Project includes incidental take authorization (permits) under the Endangered Species Act Section 10(a), California Fish and Game Code Section 2081, and the MBTA. Coverage under the SJMSCP would fully mitigate all habitat impacts on covered special-status species.*

Impact 3.4-3: The proposed Project has the potential to have substantial direct or indirect effects on special-status bird species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a bird community, or a drop in population levels below self-sustaining levels. (Less than Significant with Mitigation)

According to the CNDDB, there are 13 special-status birds that are documented within the nine-quadrangle Project region, including: cackling (=Aleutian Canada) goose (*Branta hutchinsii leucopareia*), California black rail (*Laterallus jamaicensis coturniculus*), tricolored blackbird (Agelaius tricolor), burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), white-tailed kite (*Elanus leucurus*), California horned lark (*Eremophila alpestris actia*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), loggerhead shrike (*Lanius ludovicianus*), merlin (Falco columbarius), song sparrow ("Modesto" population) (*Melospiza melodia*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), and least Bell's vireo (*Vireo bellii pusillus*). As noted in Table 3.4-2, all but one of these bird species (least Bell's vireo) are covered species under the SJMSCP.

The Project area may provide suitable foraging habitat for a variety of potentially occurring special-status birds, including those listed above. Potential nesting habitat is present in a variety of trees located within the Project site and in the vicinity. There is also the potential for other special-status birds that do not nest in this region and represent migrants or winter visitants to forage in the Project site.

The potential to have substantial direct or indirect effects on special-status bird species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a bird community, or a drop in population levels below self-sustaining levels, is discussed below.

Year-Round Birds: Special-status birds that can be present in the region throughout the year include: burrowing owl (*Athene cunicularia*), loggerhead shrike *(Lanius ludovicianus*), song sparrow (Modesto population) (*Melospiza melodia*), tricolored blackbird *(Agelaius tricolor*), among others. Some of these species are migratory, but also reside year-round in California.

Summering Birds: Special-status birds that are only present in the region in the spring and summer months include: Aleutian goose (*Branta canadensis leucopareia*), Swainson's hawk (*Buteo swainsoni*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), least Bell's vireo (*Vireo bellii pusillus*), California horned lark (*Eremophila alpestris actia*), and yellow-headed blackbird (*Xanthocephalus xanthocephalus*).

Overwintering Birds: Special-status birds that are only present in the region in the fall and winter months include: merlin *(Falco columbarius*).

Nesting Raptors (Birds of Prey): All raptors (owls, hawks, eagles, falcons), including species and their nests, are protected from take pursuant to the Fish and Game Code of California Section

3503.5, and the federal Migratory Bird Treaty Act, among other federal and State regulations. Special-status raptors that are known to occur in the region include: burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and white-tailed kite *(Elanus leucurus*), among others.

Analysis: Powerlines and trees located in the region represent potentially suitable nesting habitat for a variety of special-status birds. Powerlines exist throughout the region; however, mature trees are fairly limited in the region, and are absent from the Project site. The agricultural land represents potentially suitable nesting habitat for the ground-nesting birds. In general, most nesting occurs from late February and early March through late July and early August, depending on various environmental conditions. Additionally, highly mobile species could pass through the site.

Swainson's hawk: The CNDDB currently contains records for Swainson's hawk and burrowing owl in the vicinity of the Project site. Swainson's hawk is state threatened and is a migrant species that spends much of the spring, summer, and early fall in California's Central Valley. Their preferred nesting habitat consists of valley oaks, cottonwoods, and other tall trees adjacent to both agricultural fields and grasslands. They have been observed more frequently in recent years within the Central Valley. Due to the recent expansion of their population, it is possible that agricultural, grassland, and rural residential areas may support foraging and possibly nesting hawks. However, the ruderal grasses, fallow ground, and trees in the northern and eastern portion of the Project site are not considered quality habitat for foraging or nesting. This species generally prefers open fields for foraging, and tall trees for nesting. The nearest CNDDB occurrence of this species is 0.8 miles south of the Project site. The Project site is within the range of documented Swainson's hawk, and given the high mobility of the species, it is possible that an individual could be present on the site at some future time even though none have been observed or recorded in the past.

Burrowing owl: Burrowing owl is a species of concern in California. It is a small owl that typically lives in grassland habitats of the Central Valley region that also support California ground squirrels. The species will also sometimes overwinter or even nest within agricultural areas, using whatever is available (pipes, ground holes/burrows). The owl seeks shelter and breeds from February to July. Although the numbers of owls have declined in some parts of California over the past 20 years, their numbers have increased greatly in some agricultural areas. The ruderal grasses and fallow ground on the Project site are not considered quality habitat for foraging or nesting for this species. The nearest CNDDB record is approximately 0.54 miles east or further from the Project site. The Project site is within the range of this species and given the high mobility of the species, it is possible that an individual could be present on the site at some future time even though none have been observed or recorded in the past.

White-tailed kite: White-tailed kite is a CDFW Fully Protected species. This non-migrating bird typically attains a wingspan of approximately 40 inches and feeds primarily on insects, small mammals, reptiles, and amphibians, which it forages from open grasslands. It builds a platform-like nest of sticks in trees or shrubs and lays 3 to 5 eggs, but may brood a second clutch if prey is abundant. The kite's distinct style of hunting includes hovering before diving onto its target. There

are no CNDDB occurrences within 5 miles of the Project site. The Project site does not contain suitable nesting habitat for this species.

Cackling (=Aleutian Canada) goose: Cackling (=Aleutian Canada) goose is listed by CDFW as a Watch List species. They roost in large marshes, flooded fields, stock ponds, and reservoirs and forage in pastures, meadows, and harvested grainfields. No known CNDDB occurrences exist within 13 miles of the Project site. The Project site does not provide the appropriate habitat for this species; however, this highly mobile species could pass through and could establish nests in future years.

California black rail: California black rail is listed by CDFW as a Threatened species. They inhabit freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. This species requires water depths of about one inch that do not fluctuate during the year and dense vegetation for nesting habitat. No known CNDDB occurrences exist within 11 miles of the Project site. The Project site does not provide the appropriate aquatic habitat for this species.

Tricolored blackbird: Tricolored blackbirds are listed by CDFW as a Threatened species. During the breeding season, tricolored blackbirds typically nest in dense colonies (some estimated as having 200,000+ nests), with males defending small territories and mating with one to four females. Studies have shown that nesting colonies are often located in seasonal wetlands with tules and cattails present. More recent studies indicate that nesting colonies are also regularly found in Himalayan blackberries (*Rubus discolor*) and grain fields. Other substrates where they have been observed nesting include giant European reed (*Arundo donax*), safflower (*Carthamus tinctorius*), tamarisk (*Tamarix* spp.), elderberry (*Sambucus* spp.), poison-oak (*Toxicodendron diversilobum*), and riparian scrublands and forests (e.g., *Salix*, *Populus*, and *Fraxinus* spp.).

Tricolored blackbird foraging habitats in all seasons include annual grasslands, wet and dry vernal pools and other seasonal wetlands, agricultural fields (such as large tracts of alfalfa and pastures with continuous haying schedules, and recently tilled fields), cattle feedlots, and dairies. They also forage occasionally in Mixed Riparian Scrub habitats along marsh borders. Weed-free row crops, intensively managed vineyards, and orchards do not serve as regular foraging sites (Beedy and Hamilton 1997, 1999; DeHaven 2000). CNDDB occurrences for this species exist within 1.5 miles of the Project site. The Project site does not contain suitable nesting habitat for this species. The potential for this species to occur on-site is low; however, this highly mobile species could pass through and could establish nests in future years.

California horned lark: This species is listed by CDFW as a Watch List species. They prefer to forage in large groups in open grasslands, nesting in hollows on the ground, and are also regularly found breeding on the Valley floor in suitable habitat. The Project site does not contain suitable nesting habitat for this species. The potential for this species to occur on-site is low; however, this highly mobile species could pass through and could establish nests in future years.

Yellow-headed blackbird: Yellow-headed blackbird are CDFW listed as a species of special concern. They nest in freshwater emergent wetlands with dense vegetation and deep water. They are often found along borders of lakes or ponds and only nest where large insects, such as *Odonata* are

abundant. Nesting is timed with maximum emergence of aquatic insects. The Project site does not contain suitable habitat for this species. The potential for this species to occur on-site is low; however, this highly mobile species could pass through and could establish nests in future years.

Loggerhead shrike: Loggerhead shrike is listed by CDFW as a species of special concern. Loggerhead shrikes occur in dry, open habitats including grasslands, pastures with fence rows, agricultural fields, open woodlands (savannas), scrub, and riparian areas. They inhabit open areas with clear visibility for hunting, perches for scanning, and scattered small trees and large shrubs for nesting. Loggerhead shrikes typically avoid completely treeless and shrubless areas (Cade and Woods 1997), as well as urbanized and densely wooded areas (Grinnell and Miller 1944). Winter foraging habitat is similar to summer breeding and foraging habitat; however, shrikes also use idle pastures and hayfields during the winter (Bartgis 1992). The Project site does not contain suitable nesting habitat for this species. The potential for this species to occur on-site is low; however, this highly mobile species could pass through and could establish nests in future years.

Merlin: The Merlin is a CDFW species of special concern that has never been observed nesting in California. Though it is a transient throughout most of the state, wintering populations are known to occur in the Central Valley and along the coast. The Project site does not contain suitable nesting habitat for this species.

Song sparrow: Song sparrows are listed by CDFW as a species of special concern due to declining populations in the Great Central Valley of California. They prefer open grasslands with barren ground for foraging and tend to be found in areas with vegetation and scrub cover especially in grasslands and prairies. The Project site does not contain suitable habitat for this species.

Western yellow-billed cuckoo: Western yellow-billed cuckoo are CDFW listed as Endangered. They are found in riparian forest nester, along the broad, lower flood-bottoms of larger river systems. They nest in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape. The Project site does not contain suitable habitat for this species.

Least Bell's vireo: This species is listed by CDFW as a federal and CDFW Endangered species. They are found in the Central Valley of California and other low-elevation river valleys. They prefer dense brush, mesquite, willow-cottonwood forest, streamside thickets, and scrub oak. The Project site does not contain suitable nesting habitat for this species. Nesting opportunities are absent from the site, but this highly mobile species could pass through.

In addition to the species described above, common raptors and migratory birds may nest in or adjacent to the Project site.

Conclusion: New sources of noise and light during the construction and operational phases of the Project could adversely affect nesters if they are located adjacent to the Project site in any given year. Additionally, the proposed Project would eliminate the agricultural areas on the Project site, which serve as potential foraging habitat for birds throughout the year. Mitigation Measure 3.4-2 requires participation in the SJMSCP. As part of the SJMSCP, SJCOG requires preconstruction surveys for projects that occur during the avian breeding season (March 1 – August 31). When

active nests are identified, the biologists develop buffer zones around the active nests as deemed appropriate until the young have fledged. SJCOG also uses the fees to purchase habitat as compensation for the loss of foraging habitat. Implementation of the proposed Project, with the Mitigation Measure 3.4-2, would ensure that potential impacts to special status birds are reduced to a ***less than significant*** level.

MITIGATION MEASURE(S)

*Implement **Mitigation Measure 3.4-2**.*

Impact 3.4-4: The proposed Project has the potential for substantial direct or indirect effects on special-status mammal species, including through substantial reduction of habitat, substantial reduction of the number or restriction of the range of a listed species, elimination of a mammal community, or a drop in population levels below self-sustaining levels. (Less than Significant with Mitigation)

According to the CNDDB, there are eight special-status mammals that are documented within the nine-quadrangle Project region, including: pallid bat (*Antrozous pallidus*), riparian (=San Joaquin Valley) woodrat (*Neotoma fuscipes riparia*), Townsend's big-eared bat (*Corynorhinus townsendii*), western mastiff bat (*Eumops perotis californicus*), San Joaquin pocket mouse (*Perognathus inornatus*), riparian brush rabbit (*Sylvilagus bachmani riparius*), American badger (*Taxidea taxus*), and San Joaquin kit fox (*Vulpes macrotis mutica*). As noted in Table 3.4-2, all but one of these mammal species (pallid bat) are covered species under the SJMSCP.

The potential to have substantial direct or indirect effects on special-status mammals species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a mammal community, or a drop in population levels below self-sustaining levels, is discussed below.

Riparian Woodrat: This species requires wide, dense riparian forests with a thick understory of willows for nesting, while sites with a dominant cottonwood overstory are preferred for foraging. There are no CNDDB records of this species within 11 miles of the Project site. Additionally, appropriate habitat for this species is not found in the Project site. There is no potential for this species to occur on-site and the riparian woodrat is presumed absent from the site. Therefore, the proposed Project would have a ***less than significant*** impact on the riparian woodrat species.

Riparian Brush Rabbit: Similar to the riparian woodrat species, the riparian brush rabbit requires native valley riparian habitats with large clumps of dense shrubs, low-growing vines, and some tall shrubs and trees. There are CNDDB records of this species within five miles of the Project site. However,, appropriate habitat for this species is not found in the Project site. There is no potential for this species to occur on-site and the riparian brush rabbit is presumed absent from the site. Therefore, the proposed Project would have a ***less than significant*** impact on the riparian brush rabbit species.

San Joaquin Pocket Mouse: The Project site is currently undeveloped with some previous disturbance associated with the former buildings. The site has been previously used for agricultural uses. Previous disking on-site for agriculture likely eliminated high quality habitat for the San Joaquin pocket mouse, which is primarily found in grassland, oak savanna and arid scrubland in areas with fine-textured, sandy, and friable soils. The closest documented occurrence of San Joaquin pocket mouse is approximately 10.0 miles west of the Project site. Additionally, the majority of San Joaquin pocket mouse occurrences are recorded along or west of Interstate 580; therefore, it is unlikely that the Project site is used by San Joaquin pocket mouse. It is noted that during fallow periods, the site improves for this species, until it is disked for weed abatement on-site.

While there is low potential for this species to occur on-site, the San Joaquin pocket mouse is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to this species would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

American Badger: The Project site is currently undeveloped with some previous disturbance associated with the former buildings. The site has been previously used for agricultural uses. Previous disking on-site for agriculture likely eliminated high quality habitat for the American badger, which is primarily found in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. The closest documented occurrence of American badger is approximately 10.3 miles southwest of the Project site. Additionally, the majority of American badger occurrences are recorded southwest/west of Interstate 580. This species is highly mobile and will forage where opportunities exist. During fallow periods, the site improves for this species.

While there is low potential for t species to occur on-site, the American badger is a covered species under the SJMSCP; therefore, it is anticipated that any impacts to this species would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

San Joaquin Kit Fox: San Joaquin kit fox is known to occur in western San Joaquin County within annual grasslands and alkali scrub communities with suitable prey base and loose-textured sandy soils where dens can be enlarged from California ground squirrel burrows. According to the CNDDB, the nearest occurrence of the San Joaquin Kit Fox is approximately 12 miles southwest of the Project site. Low quality grassland foraging habitat occurs in the vicinity of the Project site where ground squirrels are abundant. This is a highly mobile species. Overall, there is a low potential for the San Joaquin Kit Fox to forage on the Project site at times, especially during fallow periods. There were no dens present on-site during the reconnaissance level site survey, and the active agricultural operations adjacent to the site, as well as the regular disking of the site for weed abatement, inhibit any establishment of dens. The San Joaquin kit fox is covered species under the SJMSCP; therefore, it is anticipated that any impacts to this species would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to

obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Special-Status Bats: The CNDDB also identifies several special-status bats that occur within the 9-quad region of the Project site, including: Pallid bat (*Antrozous pallidus*), Townsend's big-eared bat (*Eumops perotis californicus*), and Western mastiff bat (*Eumops perotis californicus*). These species are not federally state listed; however, they are considered a California Species of Special Concern and are tracked by the CNDDB. Development of the Project site would eliminate foraging habitat for special status bats by removing the agricultural areas. These special status bat species are covered by the SJMSCP, with the exception of the pallid bat.

Pallid bats occur in a variety of habitats from desert to coniferous forest, but are most closely associated with oak, yellow pine, redwood, and giant sequoia habitats in northern California and oak woodland, grassland, and desert scrub in southern California. This species relies heavily on trees for roosts. The Project site does not have appropriate roosting habitat to support the pallid bat. Additionally, there are no CNDDB records within approximately 15 miles of the site. While bats are highly mobile, pallid bats are not anticipated to occur within the Project site and the proposed Project would have a ***less than significant*** impact on this species.

The remaining special status bat species (i.e., Townsend's big-eared bat and Western mastiff bat) have not been documented on the Project site. These special-status bat species, or evidence of bat presence (i.e. guano), were not observed during the field surveys; therefore, they are not expected to be directly affected. The Project site does not have appropriate roosting habitat to support the bats, and while they are highly mobile and may be present on adjacent properties, they are not expected to be directly affected by the proposed Project. However, development of the Project site would eliminate foraging habitat for special-status bats by removing the agricultural areas. These special status bat species are all covered species under the SJMSCP; therefore, it is anticipated that any impacts to the Townsend's big-eared bat and Western mastiff bat would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to provide compensation for the loss of the potential foraging habitat.

MITIGATION MEASURE(S)

*Implement **Mitigation Measure 3.4-2**.*

Impact 3.4-5: The potential for substantial direct or indirect effects on candidate, sensitive, or special-status plant species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a plant community, or a drop in population levels below self-sustaining levels. (Less than Significant)

The records search identified 25 documented special-status plant species within the nine-quadrangle Project region. These 25 special-status plants include: bristly sedge (*Carex comosa*),

Large-flowered fiddleneck (*Amsinckia grandiflora*), alkali-sink goldfields (*Lasthenia chrysantha*), Alkali milk-vetch (*Astragalus tener var. tener*), Heartscale (*Atriplex cordulata var. cordulata*), Lesser saltscale (Atriplex minuscula), Big tarplant (*Blepharizonia plumosa*), Palmate-bracted bird's-beak (*Chloropyron palmatum*), Recurved larkspur (*Delphinium recurvatum*), diamond-petaled California poppy (*Eschscholzia rhombipetala*), San Joaquin spearscale (*Extriplex joaquinana*), Sanford's arrowhead (*Sagittaria sanfordii*), Woolly rose-mallow (*Hibiscus lasiocarpos var. occidentalis*), Wright's trichocoronis (*Trichocoronis wrightii var. wrightii*), Mason's lilaeopsis (*Lilaeopsis masonii*), Delta mudwort (*Limosella australis*), Delta button-celery (*Eryngium racemosum*), Delta tule pea (*Lathyrus jepsonii var. jepsonii*), slough thistle (*Cirsium crassicaule*), Suisun Marsh aster (*Symphyotrichum lentum*), Showy golden madia (*Madia radiata*), California alkali grass (*Puccinellia simplex*), Saline clover (*Trifolium hydrophilum*), Caper-fruited tropidocarpum (*Tropidocarpum capparideum*), and watershield (*Brasenia schreberi*).

Of the 25 documented species, two are federally listed (two endangered), four are state listed (three endangered and one rare), 21 are CNPS 1B listed species (including the federal and state listed species), and four are CNPS 2 listed species. As noted in Table 3.4-2, 17 of the 25 are covered species under the SJMSCP.

The Project site was subject to a field survey by Principal Biologist Steve McMurtry on April 21, and May 12, 2021. The collection of field surveys included surveys that coincided with the blooming period for most special status plants known to occur within the region.

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The Project site consists of highly disturbed areas (agricultural area).

SJMCP Covered Special-Status Plant Species: Of the 25 special status species which may occur in the Project area, 17 are covered under the SJMSCP. Therefore, any impacts to these species would be ***less than significant*** through compliance with Mitigation Measure 3.4-2, which requires the Project proponent to obtain coverage under the SJMSCP to mitigate for habitat impacts to covered special status species.

Remaining Special-Status Plant Species: The remaining eight plant species are not covered by the SJMSCP include: alkali-sink goldfields, lesser saltscale, big tarplant, palmate-bracted bird's-beak, San Joaquin spearscale, California alkali grass, saline clover, and watershield. No special-status plant species were observed within the Project site during the field survey and none are expected to be affected by the proposed Project. Due to the extent of past disturbance from agricultural production and other development activities in the area, the potential for these species-status plant species to occur on the Project site is generally considered to be low. It is noted that if given time without disturbance it is possible for the plant composition to shift away from it's current ruderal grass composition. However, for the reasons presented above, the proposed Project would have a ***less than significant*** impact on special status plants.

Impact 3.4-6: The potential for substantial direct or indirect effects on candidate, sensitive, or special-status fish species, including through substantial reduction of habitat, substantial reduction of the number or restriction in the range of a listed species, elimination of a fish community, or a drop in population levels below self-sustaining levels. (Less than Significant)

The records search identified five documented special-status fish species within the nine-quadrangle Project region. These five special-status fish include: Delta smelt (*Hypomesus transpacificus*), green sturgeon - southern DPS (*Acipenser medirostris pop. 1*), hardhead (*Mylopharodon conocephalus*), steelhead - Central Valley DPS (*Oncorhynchus mykiss irideus pop. 11*), and Longfin smelt (*Spirinchus thaleichthys*). Of the five documented species, three are federally threatened. As noted in Table 3.4-2, three of the five special-status fish species are covered species under the SJMSCP.

The proposed Project site does not contain any aquatic habitats, including but not limited to streams, rivers, wetlands, estuaries, or pools. Aquatic habitats in some form are required for all the aforementioned special-status fish species. Therefore, the site does not contain habitat for these species. For these reasons, the proposed Project would have a ***less than significant*** impact on special status plants.

Impact 3.4-7: The potential to cause a substantial adverse effect on protected wetlands and jurisdictional waters. (No Impact)

The Project site does not contain protected wetlands or other jurisdictional areas and there is no need for permitting associated with the federal or state Clean Water Acts. The Project site is site previously used for agricultural uses. At times the Project site is fallow, and forms an annual grassland composed of non-native annuals, before it is disked for weed abatement on-site. Absent any wetlands or jurisdictional waters, implementation of the proposed Project would have ***no impact*** relative to this topic.

Impact 3.4-8: The potential to result in adverse effects on riparian habitat or other sensitive natural community. (No Impact)

The CNDDB record search revealed documented occurrences of four sensitive habitats within the 9-quad region for the Project site including: Coastal and Valley Freshwater Marsh, Great Valley Cottonwood Riparian Forest, Great Valley Mixed Riparian Forest, and Elderberry Savanna. None of these sensitive natural communities occur within the Project site. Implementation of the proposed Project would have ***no impact*** on riparian habitats or natural communities.

Impact 3.4-9: The potential to result in interference 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)

The CNDDB record search did not reveal any documented wildlife corridors or wildlife nursery sites on or adjacent to the Project site. As noted above, five special status fish species are documented within the region, including: species within the nine-quadrangle Project region. These five special-status fish include: Delta smelt (*Hypomesus transpacificus*), green sturgeon - southern DPS (*Acipenser medirostris pop. 1*), hardhead (*Mylopharodon conocephalus*), steelhead - Central Valley DPS (*Oncorhynchus mykiss irideus pop. 11*), and Longfin smelt (*Spirinchus thaleichthys*). The closest major natural movement corridor for native fish that is documented in the region is the San Joaquin River, located approximately 1.75 miles west of the Project site, and its tributaries. The proposed land use within the Project site would not have any direct disturbance to the San Joaquin River and its tributaries, and therefore, would not have any direct disturbance to the movement corridor or habitat. Implementation of the Project would result in a ***less than significant*** impact related to this topic.

Impact 3.4-10: The proposed Project has the potential to conflict with an adopted Habitat Conservation Plan. (Less than Significant with Mitigation)

The proposed Project is subject to the SJMSCP. The proposed Project does not conflict with the SJMSCP. Mitigation Measure 3.4-2 requires participation in the SJMSCP. Therefore, with this mitigation, the proposed Project would have a ***less than significant*** impact relative to this topic.

MITIGATION MEASURE(S)

*Implement **Mitigation Measure 3.4-2**.*

Impact 3.4-11: The potential to conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. (Less than Significant with Mitigation)

The General Plan establishes numerous policies and actions related to biological resources and development review. These policies and actions are listed below. Additionally, the City's Municipal Code outlines regulations intended to protect biological resources and water quality. The Project's consistency with these General Plan policies and actions and the Municipal Code requirements are also described.

RECREATION AND RESOURCES ELEMENT POLICIES AND ACTIONS

RR-4.1: Sensitive Communities. Protect, conserve, and enhance Lathrop's biological resources, with a special focus on sensitive, rare, or endangered plant and wildlife species in accordance with state and federal resource agency requirements.

- ***Consistent**: This EIR includes an in-depth analysis of impacts related to biological resources, including the potential for impacts to sensitive, rare or endangered plants and wildlife, as well*

as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable.

RR-4.2: Habitat Conservation. Support habitat conservation efforts to set aside and preserve suitable habitats, with priority given to habitats for rare and endangered species in accordance with state and federal resource agency requirements.

- ***Consistent**: This EIR provides a detailed overview of the applicable regulatory requirements to ensure the Project complies with all federal, State, and regional regulations for habitat and species protections. Additionally, this EIR includes an in-depth analysis of impacts for sensitive plants and wildlife, as well as habitat. Limited habitat exists on-site. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable.*

RR-4.3: Native Species. Conserve existing native trees and vegetation where possible and encourage the use of native species in development and infrastructure projects.

- ***Consistent**: The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter.*

RR-4.4: Natural Water Bodies and Drainage Systems. Limit the disturbance of natural water bodies and drainage systems in Lathrop by conserving natural open space areas, protecting channels, and minimizing the impacts from stormwater and urban runoff.

- ***Consistent**: There are no natural water bodies onsite. The Project site is designated for freeway commercial uses in the City's General Plan. As discussed in Chapter 2.0, Project Description, development of the proposed Project would include construction of a new storm drainage system.*

RR-4.6: Urban Forest. To the extent feasible, build upon existing streetscapes and develop an urban forest along the City's major corridors and in residential neighborhoods to provide avian habitat, sequester carbon emissions, foster pedestrian activity, and provide shade.

- ***Consistent**: The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter.*

RR-4.11: Development. Require that all new development identify potential impacts to existing biological resources and provide mitigation measures as necessary pursuant to CEQA in order to protect these resources from negative externalities.

- ***Consistent**: This EIR provides a detailed overview of the applicable regulatory requirements to ensure the Project complies with all federal, State, and regional regulations for habitat and species protections. Additionally, this EIR includes an in-depth analysis of impacts for sensitive plants and wildlife, as well as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable.*

RR-4a: Cooperate with state, federal, and local agencies to ensure that development does not cause significant adverse impacts to existing riparian corridors.

- ***Does Not Conflict****: There are no riparian corridors located onsite.*

RR-4b: Require new development, infrastructure, long-range planning, and similar projects, to comply with the requirements of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan to ensure that potentially significant impacts to special-status species and sensitive resources are adequately addressed.

- ***Consistent****: The proposed Project is subject to the SJMSCP. The proposed Project does not conflict with the SJMSCP. Mitigation Measure 3.4-2 requires participation in the SJMSCP.*

RR-4c: Require new development which has the potential to result in water quality impacts to the City's waterways and the local groundwater basin to implement all feasible mitigation measures to reduce impacts.

- ***Consistent****: As discussed in Impact 3.9-2 in Section 3.9, Hydrology and Water Quality, the Project would not decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin. As also discussed in Section 3.9, the Project would not violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.*

RR-4e: Where sensitive biological habitats have been identified on or immediately adjacent to a project site, the project shall include appropriate mitigation measures identified by SJMSCP, which may include, but are not limited to the following:

A. Pre-construction surveys for species listed under the State or Federal Endangered Species Acts, or species identified as special-status by the resource agencies, shall be conducted by a qualified biologist;

B. Construction barrier fencing shall be installed around sensitive resources and areas identified for avoidance or protection, and to reduce potential soil compaction in sensitive areas; and

C. Pre-Construction training of contractors and sub-contractors shall be conducted by a qualified biologist to identify and avoid protected species and habitat.

- ***Consistent****: As noted previously, the proposed Project is subject to the SJMSCP. Mitigation Measure 3.4-2 requires participation in the SJMSCP.*

RR-7d: Review and regulate new development, infrastructure, and levee improvement projects to ensure consistency with Federal and State flood and floodway requirements, including BDCP and Delta Plan policies as applicable.

- ***Consistent**: Impacts associated with potential flood events are discussed in Section 3.9, Hydrology and Water Quality, of this EIR. As discussed, the Project site is currently located in Zone X, protected by levee, which by definition indicates an area protected by levees from the 1% annual chance flood. Furthermore, the entire Project site is located in the 200-year floodplain. However, pursuant to the City Municipal Code, the proposed Project would be required to comply with regulations contained in Chapter 17.17 (200-Year Flood Protection) of the City Municipal Code.*

LATHROP MUNICIPAL CODE

The Lathrop Municipal Code provides rules and regulations to protect water courses (Chapter 12.28) and to manage and control stormwater and discharge (Chapter 13.28). Section 13.28.130 specifically provides requirement to prevent, control and reduce stormwater pollutants. This includes requirements to implement best management practices to the extent they are technologically achievable to prevent and reduce pollutants.

Additionally, Chapter 12.16 outlines requirements related to trees, including planting and removing trees. The Chapter is adopted to preserve, protect and promote the public health, safety, peace, comfort, convenience, prosperity and general welfare. More specifically, the Chapter is intended to achieve the following:

A. To provide a comprehensive plan for the planting, replanting, removal and maintenance of trees within designated public streets, including arterial and collector streets and streets providing access to public facilities;
B. To establish and maintain a pattern of street trees within all public streets which will enhance the living and working area of the city, enhance real property values, conserve energy, reduce glare, diminish the effects of vehicular noise, and avoid hazards to street improvements and to public safety occasioned by trees which are of such physical location or condition as to constitute a public nuisance. (Ord. 92-89)

The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter. The planting and removing of trees would be subject to the requirements of Chapter 12.16; therefore, the proposed Project is consistent with Chapter 12.16.

CONCLUSION

In summary, the proposed Project is substantially consistent with the local policies and ordinances protecting biological resources, such as a tree preservation policy or ordinance. The Project has been designed with ample open space, park, and trail areas in order to maintain open space linkages to the extent feasible. The Project would be required to comply with applicable policies to minimize impacts to special-status species and their associated habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable. Therefore, this impact would be considered ***less than significant***.

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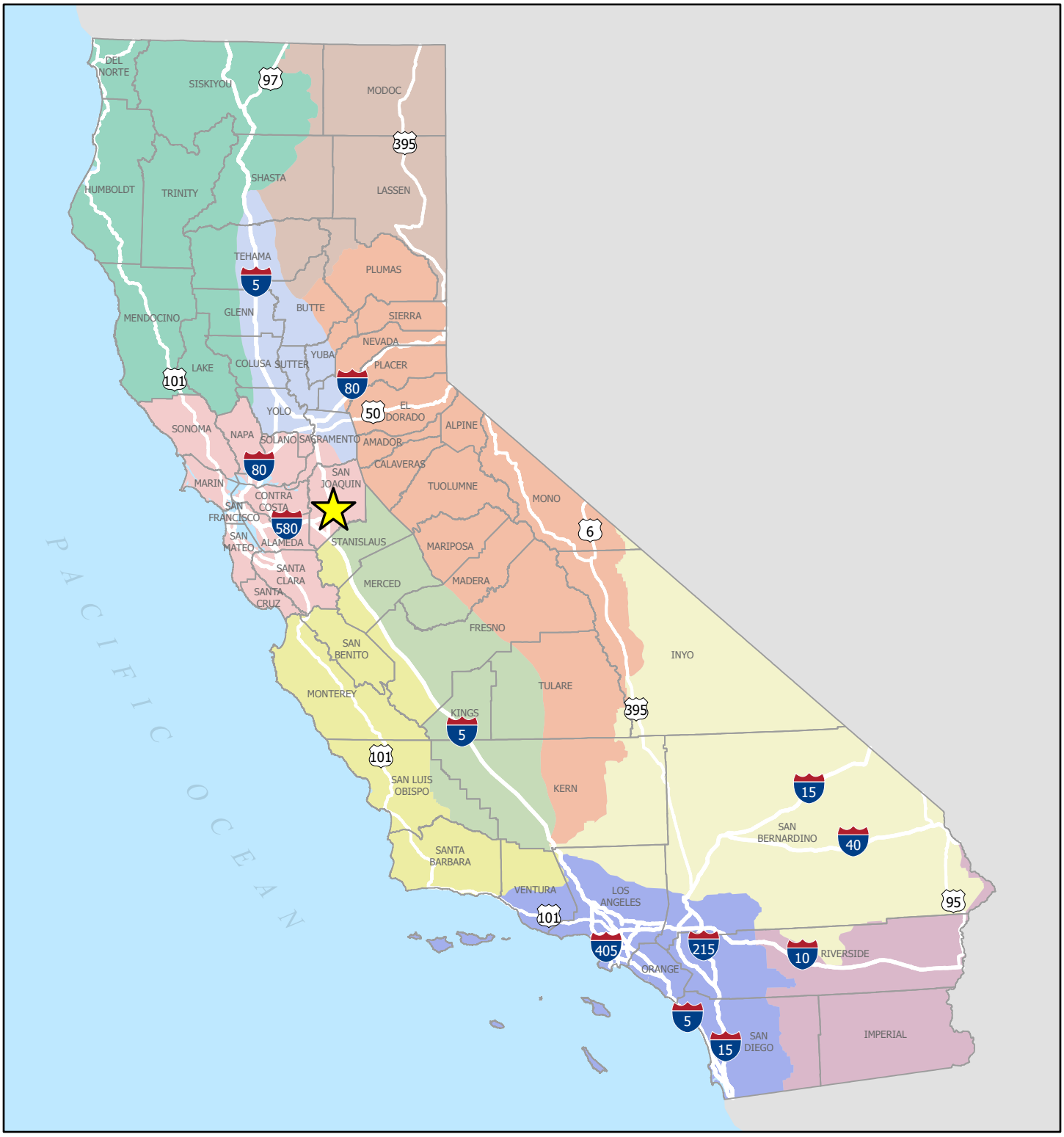

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.4-1. Bioregions

Legend

- Project Location
- County Boundary
- Bay Area / Delta
- Central Coast
- Colorado Desert
- Klamath / North Coast
- Modoc
- Mojave
- Sacramento Valley
- San Joaquin Valley
- Sierra
- South Coast

0 25 50 100
Miles

Sources: San Joaquin County GIS; California State Geoportal; California Air Resources Board. Map date: November 8, 2022.

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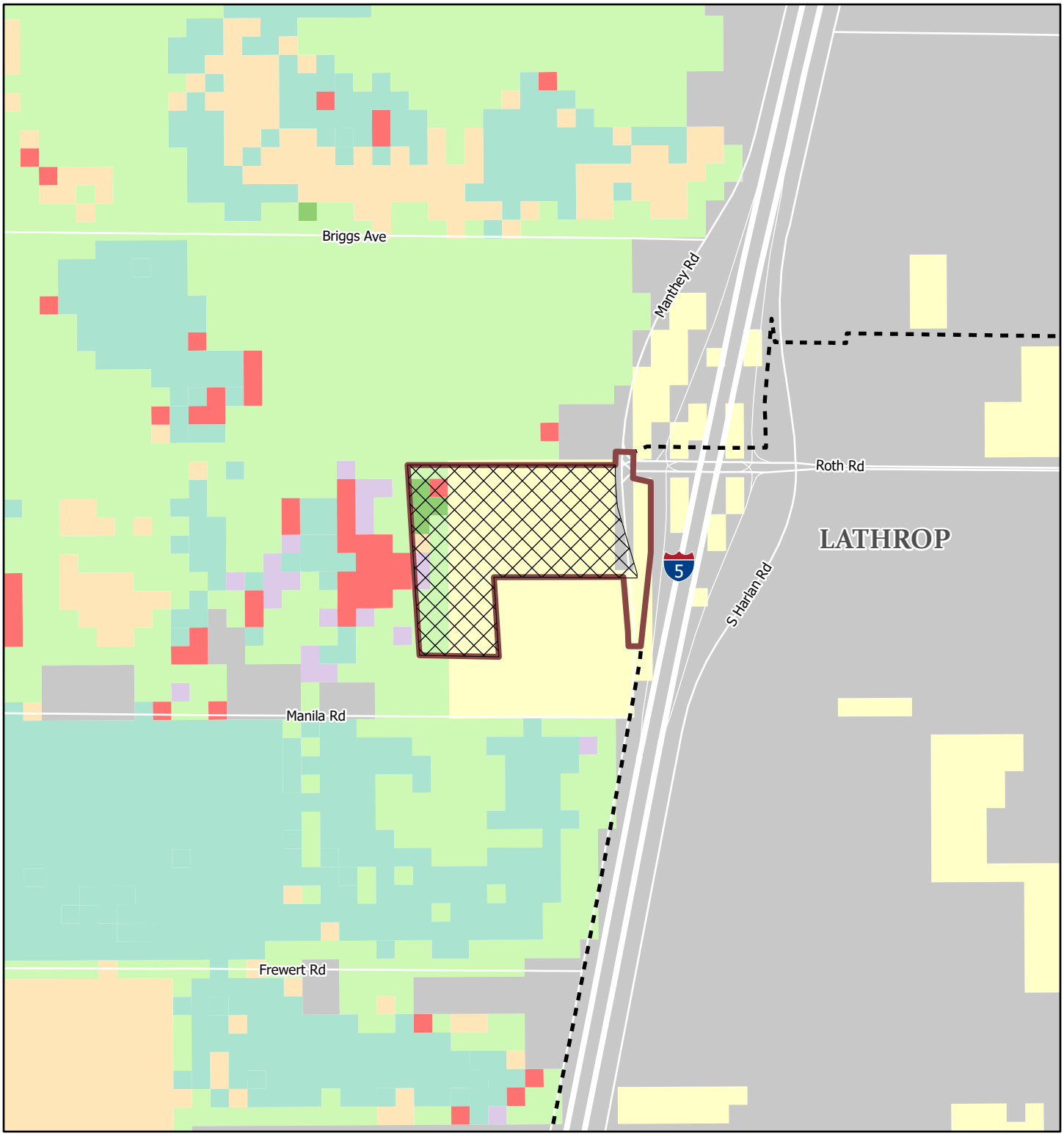

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits

Land Cover Types

- Annual Grassland
- Cropland
- Deciduous Orchard
- Dryland Grain Crops
- Evergreen Orchard
- Irrigated Hayfield, Grain, and Field Crops
- Urban
- Vineyard

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.4-2. Land Cover Types

0 200 400 800
Feet

Sources: San Joaquin County GIS; USGS Roads Database; FVEG_2015. Map date: December 13, 2022.

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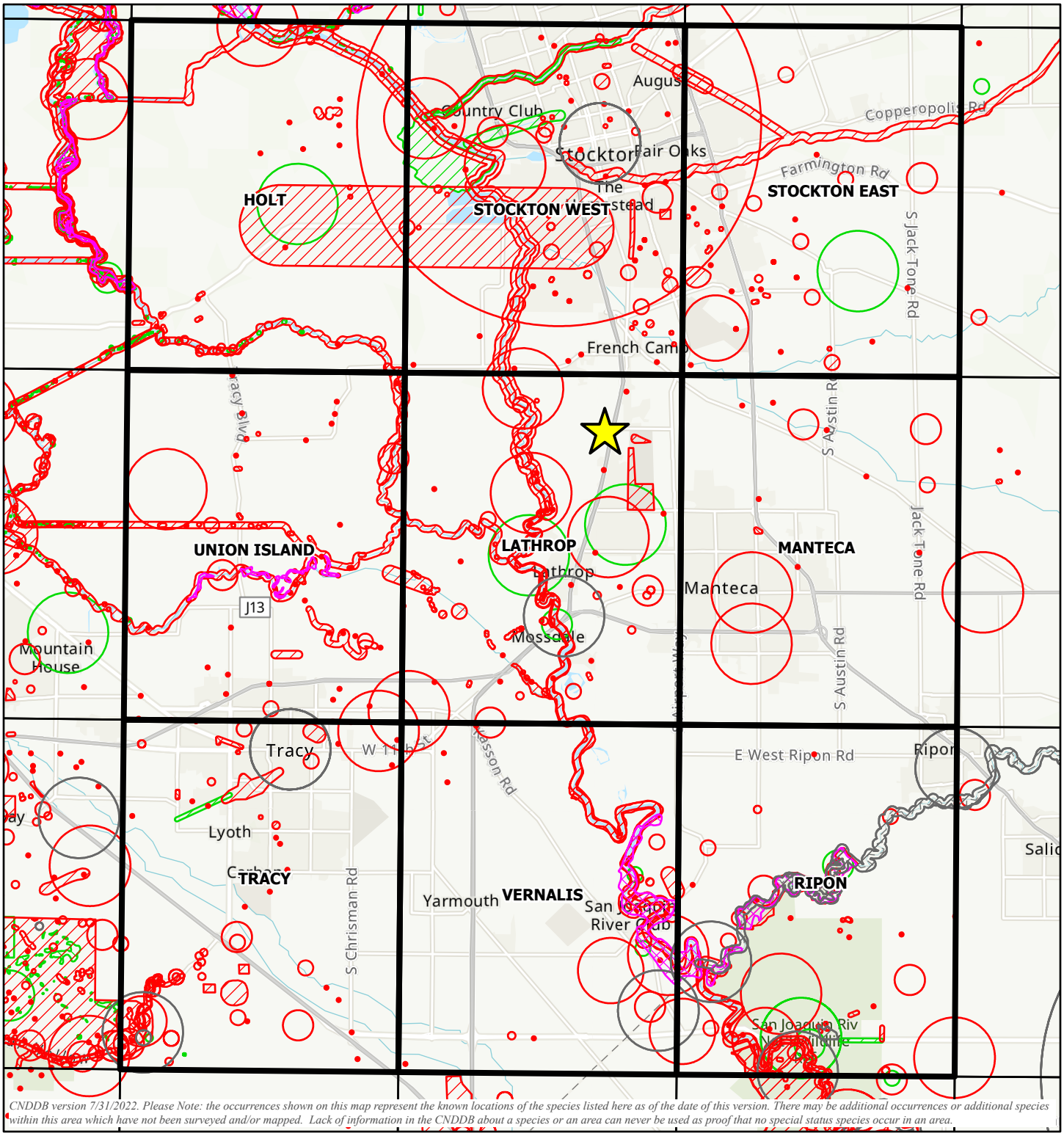

CNDDB version 7/31/2022. Please Note: the occurrences shown on this map represent the known locations of the species listed here as of the date of this version. There may be additional occurrences or additional species within this area which have not been surveyed and/or mapped. Lack of information in the CNDDB about a species or an area can never be used as proof that no special status species occur in an area.

Legend

- Project Location
- Plant (80m)
- Plant (specific)
- Plant (non-specific)
- Plant (circular)
- Animal (80m)
- Animal (specific)
- Animal (non-specific)
- Animal (circular)
- Terrestrial Comm. (specific)
- Terrestrial Comm. (circular)
- Multiple (non-specific)
- Multiple (circular)

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.4-3.
Special Status Species 9-quad Search

0 1 2 4
Miles

Sources: CDFW's California Natural Diversity Database; ArcGIS Online World Topographic Map Service. Map date: September 1, 2022.

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This section provides a discussion of the prehistoric period background, ethnographic background, historic period background, known cultural resources in the region, the regulatory setting, an impact analysis, and mitigation measures. Information in this section is derived primarily from the *Cultural Resource Assessment for the Singh Petroleum Project, City of Lathrop, California* (Peak & Associates, Inc., January 2023).

The Notice of Preparation (NOP) for the proposed Project was sent to the Native American Heritage Commission (NAHC) via the State Clearinghouse. There NAHC provided comments during the public review period for the NOP related to cultural resources. Full comments received are included in Appendix A.

3.5.1 ENVIRONMENTAL SETTING

PROJECT SETTING

The Project site is located in section 14 of Township 1 South, Range 6 East. The overall Project site includes two distinct planning boundaries defined below.

- Project Site (or Annexation Area) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- Development Area – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

The Project site is comprised of flat land with ruderal grasses, fallow ground, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 2.5 miles to the northeast of the Project. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. The Project site is currently located within San Joaquin County. The Project site is outside the Lathrop city limits, but within the City's Primary Sphere of Influence (SOI).

CULTURAL AND HISTORICAL SETTING

Prehistory

The Central Valley region was among the first in the state to attract intensive fieldwork, and research has continued to the present day. This has resulted in a substantial accumulation of data. In the early decades of the 1900s, E.J. Dawson explored numerous sites near Stockton and Lodi, later collaborating with W.E. Schenck (Schenck and Dawson 1929). By 1933, the focus of work was directed to the Cosumnes locality, where survey and excavation studies were conducted by the Sacramento Junior College (Lillard and Purves 1936). Excavation data, in particular from the stratified Windmiller site (CA-Sac-107), suggested two temporally distinct cultural traditions. Later work at other mounds by Sacramento Junior College and the University of California, Berkeley, enabled the investigators to identify a third cultural tradition, intermediate between the previously postulated Early and Late Horizons.

The three-horizon sequence, based on discrete changes in ornamental artifacts and mortuary practices, as well as on observed differences in soils within sites (Lillard, Heizer and Fenenga 1939), was later refined by Beardsley (1954). An expanded definition of artifacts diagnostic of each time period was developed, and its application extended to parts of the central California coast. Traits held in common allow the application of this system within certain limits of time and space to other areas of prehistoric central California.

The Windmiller Culture (Early Horizon) is characterized by ventrally-extended burials (some dorsal extensions are known), with westerly orientation of heads; a high percentage of burials with grave goods; frequent presence of red ocher in graves; large projectile points, of which 60 percent are of materials other than obsidian; rectangular Haliotis beads; Olivella shell beads (types A1a and L); rare use of bone; some use of baked clay objects; and well-fashioned charmstones, usually perforated.

The Cosumnes Culture (Middle Horizon) displays considerable changes from the preceding cultural expression. The burial mode is predominately flexed, with variable cardinal orientation and some cremations present. There are a lower percentage of burials with grave goods, and ocher staining is common in graves. Olivella beads of types C1, F and G predominate, and there is abundant use of green Haliotis sp. rather than red Haliotis sp. Other characteristic artifacts include perforated and canid teeth; asymmetrical and “fishtail” charmstones, usually unperforated; cobble mortars and evidence of wooden mortars; extensive use of bone for tools and ornaments; large projectile points, with considerable use of rock other than obsidian; and use of baked clay.

Hotchkiss Culture (Late Horizon) -- The burial pattern retains the use of the flexed mode, and there is wide spread evidence of cremation, lesser use of red ocher, heavy use of baked clay, Olivella beads of Types E and M, extensive use of Haliotis ornaments of many elaborate shapes and forms, shaped mortars and cylindrical pestles, bird-bone tubes with elaborate geometric designs, clam shell disc beads, small projectile points indicative of the introduction of the bow and arrow, flanged tubular pipes of steatite and schist, and use of magnesite (Moratto 1984:181-183). The characteristics noted are not all-inclusive, but cover the more important traits.

Schulz (1981), in an extensive examination of the central California evidence for the use of acorns, used the terms Early, Middle and Late Complexes, but the traits attributed to them remain generally the same. While it is not altogether clear, Schulz seemingly uses the term "Complex" to refer to the particular archeological entities (above called "Horizons") as defined in this region. Ragir's (1972) cultures are the same as Schulz's complexes.

Bennyhoff and Hughes (1984) have presented alternative dating schemes for the Central California Archeological Sequence. The primary emphasis is a more elaborate division of the horizons to reflect what is seen as cultural/temporal changes within the three horizons and a compression of the temporal span.

There have been other chronologies proposed, including Fredrickson (1973), and since it is correlated with Bennyhoff's (1977) work, it does merit discussion. The particular archeological cultural entities Fredrickson has defined, based upon the work of Bennyhoff, are patterns, phases and aspects. Bennyhoff's (1977) work in the Plains Miwok area is the best definition of the Cosumnes District, which likely conforms to Fredrickson's pattern. Fredrickson also proposed periods of time associated heavily with economic modes, which provides a temporal term for comparing contemporary cultural entities. It corresponds with Willey and Phillips' (1958) earlier "tradition", although it is tied more specifically to the archeological record in California.

Ethnography

The Project site lies within the northern portion of the ethnographic territory of the Yokuts people. The Yokuts were members of the Penutian language family which held all of the Central Valley, San Francisco Bay Area, and the Pacific Coast from Marin County to near Point Sur. The Yokuts differed from other ethnographic groups in California as they had true tribal divisions with group names (Kroeber 1925; Latta 1949). Each tribe spoke a particular dialect, common to its members, but similar enough to other Yokuts that they were mutually intelligible (Kroeber 1925).

The Yokuts held portions of the San Joaquin Valley from the Tehachapi mountains in the south to Stockton in the north. On the north they were bordered by the Plains Miwok, and on the west by the Saclan or Bay Miwok and Ohlone peoples. Although neighbors were often from distinct language families, differences between the people appear to have been more influenced by environmental factors as opposed to linguistic affinities. Thus, the Plains Miwok were more similar to the nearby Yokuts than to foothill members of their own language group. Similarities in cultural inventory co-varied with distance from other groups and proximity to culturally diverse people. The material culture of the southern San Joaquin Yokuts was therefore more closely related to that of their non-Yokuts neighbors than to that of Delta members of their own language group.

Trade was well developed, with mutually beneficial interchange of needed or desired goods. Obsidian, rare in the San Joaquin Valley, was obtained by trade with Paiute and Shoshoni groups on the eastern side of the Sierra Nevada, where numerous sources of this material are located, and to some extent from the Napa Valley to the north. Shell beads, obtained by the Yokuts from coastal people, and acorns, rare in the Great Basin, were among many items exported to the east by Yokuts traders (Davis 1961).

Economic subsistence was based on the acorn, with substantial dependency on gathering and processing of wild seeds and other vegetable foods. The rivers, streams, and sloughs that formed a maze within the valley provided abundant food resources such as fish, shellfish, and turtles. Game, wild fowl, and small mammals were trapped and hunted to provide protein augmentation of the diet. In general, the eastern portion of the San Joaquin Valley provided a lush environment of varied food resources, with the estimated large population centers reflecting this abundance (Cook 1955; Baumhoff 1963).

Settlements were oriented along the water ways, with their village sites normally placed adjacent to these features for their nearby water and food resources. House structures varied in size and shape (Latta 1949; Kroeber 1925), with most constructed from the readily available tules found in the extensive marshes of the low-lying valley areas. The housepit depressions for the structures ranged in diameter from 3 meters to 18 meters (Wallace 1978:470).

Historical Background

The northern section of the City of Lathrop lies on a portion of the Rancho Campo de los Franceses, the ranch named for the early camp first occupied by French-Canadian trappers employed by the Hudson's Bay Company in 1832. The site of the present-day location of French Camp was the terminus of the Oregon Trail used by the trappers between 1832 and 1845. In 1843, William Gulnac, likely one of the trappers who had become a Mexican citizen, with Charles Weber, later founder of Stockton, organized a company of 12 men for the purpose of forming a colony at French Camp. Gulnac filed for a land grant, and was awarded a large tract of land including French Camp and the later site of Stockton by the Mexican government.

Much of the remainder of the land is a portion of the El Pescadero land grant. The Mexican land grant of 35,546 acres, lying in portions of what is now San Joaquin and Alameda counties, was awarded in 1843 to Antonio Maria Pico. Pico sold one half of the property to Henry Morris Naglee in 1849. Pico sold one half of the remainder of the property in 1852 to John C. Frémont. After California became a state, a claim was filed for the grant in 1852 and rejected in 1854, but ultimately the land grant was patented to Pico and Naglee in 1865. The land grant was settled by numerous squatters, and Fremont sold his land to Charles McLaughlin in 1867.

Lathrop first was a station on the Central Pacific, established in 1869 when the last stretch of the transcontinental railroad was built from Sacramento through this region, crossing the San Joaquin River at Mossdale to reach the Bay Area.

The site of Lathrop was first known as Wilson's Station, and included a store and a schoolhouse on land belonging to Thomas A. Wilson. Due to conflicts in the City of Stockton that infuriated Leland Stanford, the Central Pacific Railroad switched many operations to Wilson's Station, later re-named for Charles Lathrop, brother-in-law of Leland Stanford. The town drew significant commerce away from the City of Stockton. The railroad's machine shops and roundhouse were built here, and the town became an important division point and major stop on the railroad line beginning in 1871. The Visalia Division of the Stockton Branch of the Southern Pacific Railroad was completed at that

time, serving the San Joaquin Valley. Lathrop became an important shipping point for agricultural products.

The early major building in Lathrop was the 1871 Central Pacific Railroad restaurant, serving passengers from trains from the Bay Area to Sacramento, and passengers travelling to the San Joaquin Valley. After he physically struck United States Supreme Court Justice Stephen Field in 1889 in the Central Pacific restaurant, attorney David S. Terry was shot and killed by Field's bodyguard.

Lathrop remained important for the railroads, and in 1890, had about 500 residents. Daily, there were twelve passenger and 44 freight trains passing through. But that changed in the early 1890s with the growth of Tracy, and the transfer of the machine shop and roundhouse to that community. The completion of the Western Pacific railroad in 1909 did not affect the town, with the local station located about ¾ miles from the town.

In 1942, the Lathrop Holding and Reconsignment Point was established in the Lathrop vicinity on what had been a sheep ranch, holding supplies for shipment through Bay Area ports. As many as 450 railroad cars would be loaded and unloaded each day.

The facility has gone through many changes with the changing needs of the military during times of conflict. After the end of World War II, the depot went through administrative and supply mission changes, the government applied a new name in 1948: Sharpe General Depot. The conflict in Korea brought a demand for increased services as the staffing, shipments and missions doubled during the three years of the war. The Army curtailed supply operations, and the Sharpe site began providing medical supplies and subsistence items on a larger scale. In 1962, the facility became the Sharpe Army Depot.

In 1965, with the escalation of the war in Vietnam, Sharpe became the major conduit for supplies moving to Southeast Asia. The Sharpe facility has continued to operate with a large part of the staffing switched to the Tracy facility beginning in 1999.

In the 1950s, several industrial plants were built in the Lathrop area, providing additional employment in the region. Beginning in the 1980s, improvements to community infrastructure and the attractive pricing of homes brought even more growth. The pattern of rapid growth continues to this day, with industrial and commercial development in the area, as well as many residents commuting daily to the Bay Area. The City of Lathrop incorporated in 1989.

SITE SPECIFIC HISTORY

As part of the *Cultural Resource Assessment for the Singh Petroleum Project, City of Lathrop, California* (Peak & Associates, Inc., January 2023), site specific conditions were evaluated using the historical U.S. Geological Survey (USGS) topographic maps for Lathrop. According to the Assessment, the Project site was open land in 1915 with no buildings present, and located west of a major roadway (Lathrop USGS topographic map 1915). In 1952, the Project site was still vacant, and the major roadway has been identified as Highway 99 (Lathrop USGS topographic map 1952). The 1952 topographic map was revised in 1968, and the single-family house that currently exists

had been added to the Project site by that date, and with the roadway was then identified as Highway 50. By 1976, the roadway was officially Interstate 5.

Google Earth aerial imagery of the Project site indicates that the site has remained relatively vacant for the majority of the recent history (1985-present day). Aerial imagery of the Project site suggest that the Project site and vicinity have been historically used for agricultural operations of irrigated crop and orchards (adjacent to the Project site).

METHODOLOGY

Records Search

A record search was conducted for the current area of potential effects (APE) and a 0.25-mile radius at the Central California Information Center (CCIC) of the California Historical Resources Information System (CHRIS) on September 9, 2020 (Record Search File No.: 11495L).

According to the CCIC CHRIS results, the Project site has never been surveyed. There are no cultural resources recorded in or near the Project site or search radius. One survey has been completed within the 0.25-mile survey area radius. The survey was completed in 2002 for the Lathrop Storm Drainage System (# SJ-4824).

Field Assessment

Peak & Associates, Inc. completed a field survey of a portion of the Project site on September 14, 2020. Survey strategy included parallel transects no greater than ten meters apart, with closer spacing in areas of exceptional ground visibility, such as animal trails or rodent excavations. Ground visibility was good to fair due to heavy dried grasses that are disintegrating and thinning in the late summer. Some scraping with a hoe was required to achieve acceptable soil observation. The Project site appears naturally flat, but possibly leveled for farming. Although no farming features were observed on-site, adjacent parcels show evidence of agricultural use in the form of tractors and implements, as well as crops. No observable natural water drainages, ditches or canals were present. The vegetation included native and introduced grasses and brush, a mature mulberry tree, and several unidentified introduced species. Soil throughout the parcel was consistent in type and coloration, composed of sandy loam with some silt, light tan in color with very few pebbles. Peak & Associates, Inc. completed a second survey covering the remainder of the Project site on January 22, 2023, again using full coverage. No prehistoric or historic resources were found in the Project site.

One historic site remnant was found and recorded as ML-20-06 (described below) in a 2021 field survey effort.

ML-20-06: The ML-20-06 site is the site of a former farm headquarters venture. The former headquarters was located adjacent west of Manthey Road, west of Interstate 5, and south of Roth Road. All that remains of the former farm headquarters is a small area of concrete, timber foundations and pavements covering an area of about 72 feet north-south by 70 feet east -west. According to Google Earth aerial imagery, as recently as 2017, there was a standing structure at

this location. In addition to the foundations, construction rubble is present which consists of bricks (including a section of fallen brick wall), planks of various sizes, and various pieces of hardware consistent with a date in the 1950s or 1960s. The foundation consists of poured concrete around the perimeter with pier blocks in the center. An uncompleted room on the west side has wooden forms with rebar, as well as pier-pits ready for concrete.

The former building was constructed after 1952 but before 1968, per publication date of the Lathrop 7.5' USGS maps. The house appears on the revision but not the original map. The building may have burned down as there is evidence of fire near an incomplete room on the west side. However, this could be the result of a fire after the house was abandoned.

Native American Consultation

Peak & Associates contacted the NAHC for a check of the Sacred Lands files. On October 19, 2020, the NAHC provided a reply with positive results from the Sacred Lands files search. All correspondence related to the consultation effort are presented in Appendix 3 of Appendix C.

Pursuant to both Assembly Bill (AB) 52 and Senate Bill (SB) 18, the City of Lathrop sent a letter to the Northern Valley Yokuts tribe, Buena Vista Rancheria, California Valley Miwok tribe, and the Confederated Villages of Lisjan on January 22, 2021 including questions about the identified Sacred site and requesting information and evidence to support the presence of a Sacred site. On February 5, 2021, the City received letter from the Northern Valley Yokuts Tribe requesting consultation per Public Resources Code (PRC) Section 21080.3.2(a). The City confirmed the receipt of the consultation request on February 19, 2021, and set a meeting with Ms. Perez for February 26, 2021. Ms. Perez did not attend the meeting.

Further follow-up contacts with Ms. Perez resulted in a meeting scheduled for April 9, 2021. This meeting with Mark Meissner (Community Development Director, City of Lathrop) Steve McMurtry, De Novo Planning Group) David Niskanen (J.B. Anderson Land Use Planning), and Katherine Perez (Northern Valley Yokuts) was held on April 9, 2021. Ms. Perez was informed that a survey had been conducted and nothing related to the prehistoric people was found at the site. Ms. Perez stated that there was a nearby site considered to be a Sacred Land, but that the tribe had no information on the site in the Project site. She recommended the archeologist contact the NAHC for further information. If the NAHC would not provide specifics regarding Sacred Lands, then the archeologists could do an excavation with their group acting as monitors for the test effort.

On April 9, 2021, the NAHC was contacted by Peak & Associates, and they responded they would not provide any further information on a Sacred Land except to the tribe that registers the site. No further information was forthcoming from with the NAHC or the North Valley Yokuts tribe. Since archeological testing is not a normal action with no indication of a site or with the Project site containing the appropriate setting for a site, the City of Lathrop decided to close out the consultation effort on October 28, 2021.

The NAHC sent their standard letter on December 29, 2022 after their receipt of the NOP for the Project.

3.5.2 REGULATORY SETTING

FEDERAL

National Historic Preservation Act

The National Historic Preservation Act was enacted in 1966 as a means to protect cultural resources that are eligible to be listed on the National Register of Historic Places (NRHP). The law sets forth criterion that is used to evaluate the eligibility of cultural resources. The NRHP is composed of districts, sites, buildings, structures, objects, architecture, archaeology, engineering, and culture that are significant to American History.

Virtually any physical evidence of past human activity can be considered a cultural resource. Although not all such resources are considered to be significant and eligible for listing, they often provide the only means of reconstructing the human history of a given site or region, particularly where there is no written history of that area or that period. Consequently, their significance is judged largely in terms of their historical or archaeological interpretive values. Along with research values, cultural resources can be significant, in part, for their aesthetic, educational, cultural and religious values. Neither the City of Lathrop nor agency regional or state agencies are required to comply with the National Historic Preservation Act, which governs the actions of federal agencies such as the United States Army Corps of Engineers when it engages in wetland permitting.

National Register of Historic Places

The eligibility criteria for the NRHP are as follows (36 CFR 60.4):

> *The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of state and local importance that possess aspects of integrity of location, design, setting, materials, workmanship, feeling, association, and*
>
> *(A) that are associated with events that have made a significant contribution to the broad patterns of our history and cultural heritage; or*
> *(B) that are associated with the lives of persons significant in our past; or*
> *(C) that embody the distinctive characteristics of a type, period, region, or method of construction, 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; or*
> *(D) that have yielded, or may be likely to yield, information important in prehistory or history.*

STATE

California Register of Historic Resources

The California Register of Historical Resources (CRHR) was established in 1992 and codified in the Public Resource Code Sections 5020, 5024 and 21085. The law creates several categories of

properties that may be eligible for the CRHR. Certain properties are included in the program automatically, including: properties listed in the NRHP; properties eligible for listing in the NRHP; and certain classes of State Historical Landmarks. Determining the CRHR eligibility of historic and prehistoric properties is guided by Section 15064.5(b) of the California Environmental Quality Act (CEQA) Guidelines and PRC Sections 21083.2 and 21084.1.

Historical resources, under CRHR guidelines, are defined as buildings, sites, structures, or objects that may have historical, architectural, archaeological, cultural, or scientific importance. A cultural resource may be eligible for listing on the CRHR if it:

a) is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
b) is associated with the lives of persons important in our past;
c) 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; or
d) has yielded, or may be likely to yield, information important in prehistory or history.

California Environmental Quality Act

CEQA requires that lead agencies determine whether projects may have a significant effect on three categories of distinct but sometimes overlapping cultural resources: "unique archaeological resources," "historical resources," and "tribal cultural resources." The determination as to whether a particular cultural resource falls under one of these three categories requires the application of statutory criteria set forth in PRC Sections 21083.2[g] (unique archaeological resources), 21084.1 (historical resources), and 21074 (tribal cultural resources), Further guidance regarding the first categories is also found in CEQA Guidelines Section 15064.5.

If the agency determines that a project may cause a substantial adverse change in the significance of either an historical resource or a tribal cultural resource, then the project may have a significant environmental effect and an EIR is required for the project. (Pub. Resource Code, Section 21084.1, 210842.) If a cultural resource is found not to be significant under the qualifying criteria for these three statutory categories of cultural resources, then then the cultural resource need not be considered further in the planning process. Notably, the Legislature has directed that "[a]n [EIR], if otherwise necessary, shall not address the issue of nonunique archaeological resources. A negative declaration shall be issued with respect to a project if, but for the issue of nonunique archaeological resources, the negative declaration would be otherwise issued." (PRC, Section 21083.2, subd. (a).)

CEQA emphasizes avoidance of unique archaeological resources and historical resources as the preferred means of reducing potential significant environmental effects resulting from projects. If avoidance is not feasible, an excavation program or some other form of mitigation must be developed to mitigate the impacts. In order to adequately address the level of potential impacts, and thereby design appropriate mitigation measures, the significance and nature of the cultural resources must be determined. The following are steps typically taken to assess and mitigate

potential impacts to unique archaeological resources and historical resources for the purposes of CEQA:

- Identify cultural resources,
- Evaluate the significance of the cultural resources found,
- Evaluate the effects of the project on cultural resources, and
- Develop and implement measures to mitigate the effects of the project on cultural resources that would be significantly affected.

HISTORICAL RESOURCES

"Historical resource" is a term with a defined statutory meaning (PRC, Section 21084.1; State CEQA Guidelines, Sections 15064.5[a] and [b]). Under State CEQA Guidelines Section 15064.5(a), historical resources include the following (with qualifications explained below):

1) A resource listed in, or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources (PRC, Section 5024.1).
2) A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significant in a historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, will be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
3) Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource will be considered by the lead agency to be historically significant if the resource meets the criteria for listing in the California Register of Historical Resources (PRC, Section 5024.1), including the following:
    a) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
    b) Is associated with the lives of persons important in our past;
    c) 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; or
    d) Has yielded, or may be likely to yield, information important in prehistory or history.
4) The fact that a resource is not listed in or determined to be eligible for listing in the California Register of Historical Resources, not included in a local register of historical resources (pursuant to Section 5020.1(k) of the PRC), or identified in a historical resources survey (meeting the criteria in Section 5024.1(g) of the PRC) does not preclude a lead

agency from determining that the resource may be an historical resource as defined in PRC Section 5020.1(j) or 5024.1.

UNIQUE ARCHAEOLOGICAL RESOURCES

CEQA also requires lead agencies to consider whether projects will impact unique archaeological resources. PRC Section 21083.2, subdivision (g), states that unique archaeological resource means an archaeological 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. 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.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

TRIBAL CULTURAL RESOURCES (AB 52)

CEQA also requires lead agencies to consider whether projects will impact tribal cultural resources. AB 52, approved in September 2014, creates a formal role for California Native American tribes by creating a formal consultation process and establishing that a substantial adverse change to a tribal cultural resource has a significant effect on the environment. PRC Section 21074 states the following:

a) "Tribal cultural resources" are either of the following:
   1) Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
      A) Included or determined to be eligible for inclusion in the California Register of Historical Resources.
      B) Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.
   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 Section 5024.1. In applying the criteria set forth in subdivision (c) of Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe.

b) A cultural landscape that meets the criteria of subdivision (a) is a tribal cultural resource to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.

c) A historical resource described in Section 21084.1, a unique archaeological resource as defined in subdivision (g) of Section 21083.2, or a "nonunique archaeological resource" as defined in subdivision (h) of Section 21083.2 may also be a tribal cultural resource if it conforms with the criteria of subdivision (a).

AB 52 requires a lead agency, prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report for a project, to begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project if: (1) the California Native American tribe requested to the lead agency, in writing, to be informed by the lead agency through formal notification of proposed projects in the geographic area that is traditionally and culturally affiliated with the tribe, and (2) the California Native American tribe responds, in writing, within 30 days of receipt of the formal notification, and requests the consultation. Pursuant to both Assembly Bill (AB) 52 and Senate Bill (SB) 18, the City of Lathrop sent a letter to the Northern Valley Yokuts tribe on January 22, 2021 including questions about the identified Sacred site and requesting information and evidence to support the presence of a Sacred site. On February 5, 2021, the City received letter from the Northern Valley Yokuts Tribe requesting consultation per Public Resources Code (PRC) Section 21080.3.2(a). The City confirmed the receipt of the consultation request on February 19, 2021, and set a meeting with Ms. Perez for February 26, 2021. Ms. Perez did not attend the meeting.

NATIVE AMERICAN REMAINS

CEQA also provides for the protection of Native American human remains (CCR Section 15064.5[d]). Native American human remains are also protected under the Native American Graves Protection and Repatriation Act of 1990 (25 USC 3001 et seq.), which requires federal agencies and certain recipients of federal funds to document Native American human remains and cultural items within their collections, notify Native American groups of their holdings, and provide an opportunity for repatriation of these materials. This act also requires plans for dealing with potential future collections of Native American human remains and associated funerary objects, sacred objects, and objects of cultural patrimony that might be uncovered as a result of development projects overseen or funded by the federal government.

Assembly Bill 978

In 2001, AB 978 expanded the reach of Native American Graves Protection and Repatriation Act of 1990 and established a state commission with statutory powers to assure that federal and state laws regarding the repatriation of Native American human remains and items of patrimony are fully complied with. In addition, AB 978 also included non-federally recognized tribes for repatriation.

LOCAL

City of Lathrop General Plan

GOAL: RECREATION AND RESOURCES ELEMENT

- RR-3: Preserve and protect prehistoric, historic, archaeological, and paleontological resources, to bolster community identity and protect sensitive resources.

POLICIES: RECREATION AND RESOURCES ELEMENT

- RR-3.1: Preservation. Protect areas containing significant historic, archaeological, and paleontological resources, as defined by the California Public Resources Code.
- RR-3.2: San Joaquin County Coordination. Coordinate with San Joaquin County to preserve local historic resources, conserve historical assets within the City, and allow for local community events to occur at these special locations.
- RR-3.3: Human Remains. Ensure that human remains are treated with sensitivity and dignity, and ensure compliance with the provisions of California Health and Safety Code Section 7050.5 and California Public Resources Code Section 5097.98.
- RR-3.4: Tribal Consultation. Consult with Native American tribes that may be impacted by proposed development, as necessary, and in accordance with state, local, and tribal intergovernmental consultation requirements.

3.5.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with PRC sections 21084.1, 21084.2, CEQA Guidelines section 15064.5[b], and Appendix G of the CEQA Guidelines, the proposed Project is considered to have a significant impact on cultural resources if it will:

- Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5;
- Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to CEQA Guidelines Section 15064.5;
- Disturb any human remains, including those interred outside of formal cemeteries; or
- Cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC 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:
    - Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k); or
    - 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 the criteria set forth in subdivision (c) of PRC Section 5024.1, the lead agency shall consider the significance of the resources to a California Native American tribe.

The CEQA guidelines use the following definitions to analyze impacts on historical or archaeological resources:

- Substantial adverse change in the significance of a historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate

surroundings such that the significance of a historical resource would be materially impaired (§ 15064.5(b)(1)).

- The significance of a historical resource would be materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics that convey its historic significance or justify its inclusion in, or eligibility for, the NRHP, CRHR, or local registers (§ 15064.5(b)(2)(A–C)).

IMPACTS AND MITIGATION MEASURES

Impact 3.5-1: Project implementation has the potential to cause a substantial adverse change to a significant historical or archaeological resource, as defined in CEQA Guidelines §15064.5. (Less than Significant with Mitigation)

The Project site encompasses approximately 22.42 acres, encompassing the approximate 19.63 acre Development Area. The Development Area is intended for the development of a travel center and associated circulation and parking improvements over two phases. The Project site is comprised of flat land with ruderal grasses, fallow ground, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

As noted earlier, Peak & Associates, Inc. completed a survey of the Project site on January 22, 2023. No prehistoric or historic resources were found in the Project site. A record search was conducted for the current APE and a 0.25-mile radius at the CCIC of the CHRIS on September 9, 2020 (Record Search File No.: 11495L). According to the CCIC CHRIS results, the Project site has never been surveyed. There are no cultural or archaeological resources recorded in or near the Project site or search radius. However, one historic site remnant was found and recorded as ML-20-06 (described below) in a 2021 field survey effort.

EVALUATION OF RESOURCE ML-20-06

Although it appears to be relatively evident for a remnant of a residence built sometime between 1952 and 1968, there are no known significant events in the Lathrop area in the 1950s-1980s related to this residence. Similarly, no association with important individuals can be found. The building was removed in 2017; the remnant that still exists does not embody a particular style, type, or method of construction. No specific important architect can be identified for the property. There are no particular archeological values for a property that undoubtedly participated in normal waste disposal practices, and there would be no value to any items remaining at the site. Therefore, the building remnant has been recorded, and is not eligible for the CRHR, and there are no significant cultural resources with the Project site.

CONCLUSION

While the CCIC records search found nothing documented on-site that could be considered a "historical resource" under Section 15064.5 in the CEQA Guidelines, as with most projects in the region, there is also the potential for discovery of previously unknown historical resources or archaeological resources during ground disturbing activities. Implementation of the following mitigation measure would ensure that this potential impact is ***less than significant***.

MITIGATION MEASURE(S)

Mitigation Measure 3.5-1: *If subsurface deposits believed to be cultural, historical, archaeological, tribal, and/or human in origin are discovered during construction and/or ground disturbance, all work must halt within a 100-foot radius of the discovery. A Native American Representative from traditionally and culturally affiliated Native American Tribes that requested consultation shall be immediately contacted and invited to assess the significance of the find and make recommendations for further evaluation and treatment, as necessary. If deemed necessary by the City, a qualified cultural resources specialist meeting the Secretary of Interior's Professional Qualifications Standards for Archaeology, may also assess the significance of the find in joint consultation with Native American Representatives to ensure that Tribal values are considered. Work at the discovery location cannot resume until it is determined by the City, in consultation with culturally affiliated tribes, that the find is not a tribal cultural resource, or that the find is a tribal cultural resource and all necessary investigation and evaluation of the discovery under the requirements of the CEQA, including AB 52, has been satisfied. The qualified cultural resources specialist shall have the authority to modify the no-work radius as appropriate, using professional judgement.*

The following notifications and measures shall apply to potential unique archaeological resources and potential historical resources of an archaeological nature (as opposed to tribal cultural resources), depending on the nature of the find:

- *If the professional archaeologist determines that the find does not represent a cultural resource that might qualify as a unique archaeological resource or historical resource of an archaeological nature, work may resume immediately and no agency notifications are required.*

- *If the professional archaeologist determines that the find does represent a cultural resource that might qualify as a unique archaeological resource or historical resource of an archaeological nature from any time period or cultural affiliation, he or she shall immediately notify the City and applicable landowner. The professional archaeologist and a representative from the City shall consult to determine whether any unique archaeological resources or historical resources of an archaeological nature are present, in part based on a finding of eligibility for inclusion in the NRHP or CRHR. If it is determined that unique archaeological resources or historical resources of an archaeological nature are present, the qualified archaeologist shall develop mitigation or treatment measures for consideration and approval by the City. Mitigation shall be developed and implemented in accordance with Public Resources Code Section 21083.2 and Section 15126.4 of the CEQA Guidelines, with a preference for preservation in place. Consistent with Section*

15126.4(b)(3), preservation in place may be accomplished through planning construction to avoid the resource; incorporating the resource within open space; capping and covering the resource; or deeding the site into a permanent conservation easement. If approved by the City, such measures shall be implemented and completed prior to commencing further work for which grading or building permits were issued, unless otherwise directed by the City. Avoidance or preservation of unique archaeological resources or historical resources of an archaeological nature shall not be required where such avoidance or preservation in place would preclude the construction of important structures or infrastructure or require exorbitant expenditures, as determined by the City. Where avoidance or preservation are not appropriate for these reasons, the professional archaeologist, in consultation with the City, shall prepare a detailed recommended a treatment plan for consideration and approval by the City, which may include data recovery. If employed, data recovery strategies for unique archaeological resources that do not also qualify as historical resources of an archaeological nature shall follow the applicable requirements and limitations set forth in Public Resources Code Section 21083.2. Data recovery will normally consist of (but would not be limited to) sample excavation, artifact collection, site documentation, and historical research, with the aim of recovering important scientific data contained within the unique archaeological resource or historical resource of an archaeological nature. The data recovery plan shall include provisions for analysis of data in a regional context, reporting of results within a timely manner, curation of artifacts and data at an approved facility, and dissemination of reports to local and State repositories, libraries, and interested professionals. If data recovery is determined by the City to not be appropriate, then an equally effective treatment shall be proposed and implemented. Work may not resume within the no-work radius until the City, in consultation with the professional archaeologist, determines that the site either: 1) does not contain unique archaeological resources or historical resources of an archaeological nature; or 2) that the preservation and/or treatment measures have been completed to the satisfaction of the City.

- *If the find includes human remains, or remains that are potentially human, the contractor shall ensure reasonable protection measures are taken to protect the discovery from disturbance (AB 2641). The archaeologist shall notify the County Coroner (per Section 7050.5 of the Health and Safety Code). The provisions of Section 7050.5 of the California Health and Safety Code, Section 5097.98 of the California Public Resources Code, and Assembly Bill 2641 will be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, then the Coroner will notify the Native American Heritage Commission, which then will designate a Native American Most Likely Descendant (MLD) for the project (§5097.98 of the Public Resources Code). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. If the landowner does not agree with the recommendations of the MLD, then the NAHC can mediate (Section 5097.94 of the Public Resources Code). If no agreement is reached, the landowner must rebury the remains where they will not be further disturbed (Section 5097.98 of the Public Resources Code). This will also include either recording the site with the NAHC or the appropriate Information*

Center; using an open space or conservation zoning designation or easement; or recording a reinternment document with the county in which the property is located (AB 2641). Work may not resume within the no-work radius until the lead agency, through consultation as appropriate, determines that the treatment measures have been completed to their satisfaction.

Impact 3.5-2: Project implementation has the potential to disturb human remains, including those interred outside of formal cemeteries. (Less than Significant with Mitigation)

Indications suggest that humans have occupied San Joaquin County for over 10,000 years and it is not always possible to predict where human remains may occur outside of formal burials. Therefore, excavation and construction activities, regardless of depth, may yield human remains that may not be interred in marked, formal burials.

Under CEQA, human remains are protected under the definition of archaeological materials as being "any evidence of human activity." Additionally, PRC Section 5097 has specific stop-work and notification procedures to follow in the event that human remains are inadvertently discovered during Project implementation.

While no human remains were found during field surveys of the Project site, implementation of the Mitigation Measure 3.5-1 would ensure that all construction activities which inadvertently discover human remains implement state-required consultation methods to determine the disposition and historical significance of any discovered human remains. The following mitigation measure would reduce this impact to a ***less-than-significant*** level.

MITIGATION MEASURE(S)

*Implement **Mitigation Measure 3.5-1***

Impact 3.5-3: Project implementation has the potential to cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 (Less than Significant with Mitigation)

The Project site is located in an area known to have historical, archaeological, and tribal cultural resources. As described under the *Native American Consultation* heading in the Existing Setting, the City of Lathrop sent outreach letters including questions about the identified Sacred site and for information and evidence to support the presence of a Sacred site. On February 5, 2021, the City received letter from the Northern Valley Yokuts Tribe requesting Consultation per PRC Section 21080.3.2(a). All consultation correspondence and a contact log are provided in Appendix C.

While no specific resources have been identified through consultation with affiliated tribes, it is possible that unknown tribal cultural resources may be present within the Project site. The proposed Project would be required to follow development requirements, including compliance

with local policies, ordinances, and applicable permitting procedures related to protection of tribal resources.

As discussed under Impacts 3.5-1 and 3.5-2, development of the proposed Project could impact unknown archaeological resources including Native American Tribal artifacts and human remains. Implementation of Mitigation Measure 3.5-1 would ensure that the potential impact to tribal resources, including human remains, would be ***less than significant***.

MITIGATION MEASURE(S)

Implement ***Mitigation Measure 3.5-1***

The purpose of this section is to disclose and analyze the potential impacts associated with the geology of the Project site and regional vicinity, and to analyze issues such as the potential exposure of people and property to geologic hazards, landform alteration, and erosion. This section is based in part on the following:

- *Draft Environmental Impact Report for the Lathrop General Plan Update* (City of Lathrop, 2022);
- *City of Lathrop General Plan* (City of Lathrop, 2022);
- *Natural Resources Conservation Service (NRCS) Web Soil Survey* (NRCS, 2022);
- *Geotechnical Engineering Investigation, Singh Petroleum Investments Percolation* (Construction Testing & Engineering, Inc., 2022)

There was one comment received from the Central Valley Regional Water Quality Control Board (CVRWQB) during the Notice of Preparation (NOP) scoping process related to soils, which is addressed in this chapter of the EIR and included in Appendix A.

As discussed in the Initial Study for the proposed Project (see Appendix A), the proposed Project would connect to the municipal sewer system for wastewater disposal. Septic tanks or septic systems are not proposed as part of the Project. Additionally, there are no significant deposits of mineral resources located in the Project site, as delineated by the Mineral Resources and Mineral Hazards Mapping Program (MRMHMP). The Project Area is not designated as a Mineral Resource Zone (MRZ). As such, these CEQA topics will not be further discussed.

3.6.1 ENVIRONMENTAL SETTING

GEOLOGIC SETTING

Geomorphic Province

The Project site is located in the central portion of the Great Valley Geomorphic Province of California. The Great Valley Province is a broad structural trough bounded by the tilted block of the Sierra Nevada on the east and the complexly folded and faulted Coast Ranges on the west. The San Joaquin River is the principal river in the area and is located just north and west of the City. Alluvial fans formed by this river are the largest geomorphic features in the Clovis area. The formation of the fans has resulted in rather flat regional topography.

Regional Geology

The Project site lies in the San Joaquin Valley in central California. The San Joaquin Valley is a topographically flat, northwest-trending, structural trough (or basin). It is bordered by the Tehachapi Mountains on the south, the Sierra Nevada on the east, the Coast Ranges on the west, and the beginning of the Sacramento Valley to the north.

The San Joaquin Valley is filled with thick sedimentary rock sequences that were deposited as much as 130 million years ago. Large alluvial fans have developed on each side of the Valley. The larger and more gently sloping fans are on the east side of the San Joaquin Valley and overlie metamorphic and igneous basement rocks. These basement rocks are exposed in the Sierra Nevada foothills and consist of meta-sedimentary, volcanic, and granitic rocks.

Local Setting

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Environment Impact Report to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.

- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 2.0-1 and 2.0-2 in Chapter 2.0, Project Description, show the Project's regional location and vicinity. Figure 2.0-3 provides the APN map.

The Project site is comprised of flat land with ruderal grasses, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet and the impervious area is approximately 2,500 square feet. Fencing surrounds the Project site.

The Project Area is located within the northern boundary of the City of Lathrop Sphere of Influence (SOI), within the unincorporated area of Jan Joaquin County. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and rural residential properties to the north.

Soils

A Custom Soil Survey was completed for the Project site using the NRCS Web Soil Survey program. Table 3.6-1 identifies the type and range of soils found in the Project site. As shown in Table 3.6-1,

the soils within the Project site consist entirely of fine sandy loams. Below is a brief description of prominent soils within the Project site.

TABLE 3.6-1: PROJECT SITE SOILS

UNIT SYMBOL	*NAME*	*ACRES IN PROJECT SITE*	*PERCENT OF AREA OF INTEREST*
196	Manteca fine sandy loam, 0 to 2 percent slopes	6.8	32.7%
266	Veritas fine sandy loam, 0 to 2 percent slopes	14.9	67.3%

SOURCE: NRCS CUSTOM SOIL SURVEY 2023.

Manteca fine sandy loam. This moderately well drained, nearly level soil formed in alluvium. Permeability is moderate in this soil. Runoff is slow, and the hazard of water erosion is slight. The shrink-swell potential of this soil is low. The risk of corrosion is high for uncoated steel, and low for concrete. Soil limitations on building site development are considered moderate to severe, due to flooding potential and the existence of cemented pan.

Veritas fine sandy loam. This moderately well drained, nearly level soil formed in alluvium. Permeability is moderate in this soil. Runoff is slow, and the hazard of water erosion is slight. The shrink-swell potential of this soil is low. The risk of corrosion is high for uncoated steel, and low for concrete. Soil limitations on building site development are considered moderate to severe, due to flooding potential and the existence of cemented pan.

SOIL HAZARDS

Erosion

Erosion naturally occurs on the surface of the earth as surface materials (i.e. rock, soil, debris, etc.) is loosened, dissolved, or worn away, and transported from one place to another by gravity. Two common types of soil erosion include wind erosion and water erosion. The steepness of a slope is an important factor that affects soil erosion. Erosion potential in soils is influenced primarily by loose soil texture and steep slopes. Loose soils can be eroded by water or wind forces, whereas soils with high clay content are generally susceptible only to water erosion. The potential for erosion generally increases as a result of human activity, primarily through the development of facilities and impervious surfaces and the removal of vegetative cover.

The Geotechnical Engineering Investigation identified the erosion potential for the soils in the Project Area. This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. Soil property data for each map unit component includes the hydrologic soil group, erosion factors Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the surface horizon.

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the

soil is to sheet and rill erosion by water. Within the Project site, the erosion factor Kf varies from 0.24 to 0.28, which is considered a low to moderate potential for erosion.

Expansive Soils

The NRCS delineates soil units and compiles soils data as part of the National Cooperative Soil Survey. The following description of linear extensibility (also known as shrink-swell potential or expansive potential) is provided by the NRCS Physical Properties Descriptions:

> *"Linear extensibility" refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.*

The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Expansive soils can undergo significant volume change with changes in moisture content. They shrink and harden when dried and expand and soften when wet. If structures are underlain by expansive soils, it is important that foundation systems be capable of tolerating or resisting any potentially damaging soil movements. In addition, it is important to limit moisture changes in the surficial soils by using positive drainage away from buildings as well as limiting landscaping watering.

According to the NRCS Web Soil Survey, the soils in the Project site have a linear extensibility of 1.5 percent and, therefore, have a low shrink- swell potential.

Liquefaction

Liquefaction occurs when saturated fine-grained sands and/or silts lose their physical strength temporarily during earthquake induced shaking and behave as a liquid. This is due to loss of point-to-point grain contact and transfer of normal stress to the pore water. Liquefaction potential varies with water level, soil type, material gradation, relative density, and probable intensity and duration of ground shaking.

The California Geological Survey (CGS) has designated certain areas within California as potential liquefaction hazard zones. These mapped areas are considered at risk of liquefaction-related ground failure during a seismic event based upon mapped surficial deposits. The project site is not currently mapped for potential liquefaction hazard by the CGS. Based on readily available published geologic information, according to the Geotechnical Engineering Investigation prepared for the Project site, there is no historical record of liquefaction occurring at the site.

Landslides

The California Geological Survey classifies landslides with a two-part designation based on Varnes (1978) and Cruden and Varnes (1996). The designation captures both the type of material that failed and the type of movement that the failed material exhibited. Material types are broadly categorized as either rock or soil, or a combination of the two for complex movements. Landslide movements are categorized as falls, topples, spreads, slides, or flows.

Landslides include rockfalls, deep slope failure, and shallow slope failure. Factors such as the geological conditions, drainage, slope, vegetation, and others directly affect the potential for landslides. One of the most common causes of landslides is construction activity that is associated with road building (i.e. cut and fill). The Project site is essentially flat; therefore, the potential for landslides is generally low.

Collapsible Soils

Collapsible soils undergo a rearrangement of their grains and a loss of cementation, resulting in substantial and rapid settlement under relatively low loads. Collapsible soils occur predominantly at the base of mountain ranges, where Holocene-age alluvial fan and wash sediments have been deposited during rapid run-off events. Soils prone to collapse are commonly associated with manmade fill, wind-laid sands and silts, and alluvial fan and mudflow sediments deposited during flash floods. During an earthquake, even slight settlement of fill materials can lead to a differentially settled structure and significant repair costs. Differential settlement of structures typically occurs when heavily irrigated landscape areas are near a building foundation. Examples of common problems associated with collapsible soils include tilting floors, cracking or separation in structures, sagging floors, and nonfunctional windows and doors.

Collapsible soils have not been identified in the Lathrop General Plan as an issue in the Lathrop area. However, in areas subject to potential liquefaction, the potential for liquefaction induced settlement is present.

Naturally Occurring Asbestos

The term “asbestos” is used to describe a variety of fibrous minerals that, when airborne, can result in serious human health effects. Naturally occurring asbestos is commonly associated with ultramafic rocks and serpentinite. Ultramafic rocks, such as dunite, peridotite, and pyroxenite are igneous rocks comprised largely of iron-magnesium minerals. As they are intrusive in nature, these rocks often undergo metamorphosis, prior to their being exposed on the Earth’s surface. The metamorphic rock serpentinite is a common product of the alteration process. Naturally occurring asbestos is not identified within San Joaquin County, although it is all located to the east and west of the City of Lathrop in mountainous areas in Contra Costa and Calaveras Counties. There is no naturally occurring asbestos mapped within Lathrop.

Subsidence

Land subsidence is the gradual settling or sinking of an area with little or no horizontal motion due to changes taking place underground. It is a natural process, although it can also occur (and is greatly accelerated) as a result of human activities. Common causes of land subsidence from human activity include: pumping water, oil, and gas from underground reservoirs; dissolution of limestone aquifers (sinkholes); collapse of underground mines; drainage of organic soils; and initial wetting of dry soils.

Subsidence has not been identified in the Lathrop General Plan or General Plan EIR as an issue in the Lathrop area.

SEISMIC HAZARDS

Seismic Ground Shaking

The potential for seismic ground shaking in California is expected. As a result of the foreseeable seismicity in California, the State requires special design considerations for all structural improvements in accordance with the seismic design provisions in the California Building Code. These seismic design provisions require enhanced structural integrity based on several risk parameters. Seismic ground shaking in the Project site is expected during the life of the proposed Project. All structures will be built in accordance with the California Building Code's seismic design standards.

Liquefaction

Liquefaction, which is primarily associated with loose, saturated materials, is most common in areas of sand and silt or on reclaimed lands. Cohesion between the loose materials that comprise the soil may be jeopardized during seismic events and the ground will take on liquid properties. Thus, specific soil characteristics and seismic shaking must exist for liquefaction to be possible. Liquefaction susceptibility based on soil types, deposit, and age is presented below.

Liquefaction typically requires a significant sudden decrease of shearing resistance in cohesion-less soils and a sudden increase in water pressure, which is typically associated with an earthquake of high magnitude. The potential for liquefaction is highest when groundwater levels are high, and loose, fine, sandy soils occur at depths of less than 50 feet. Based on the explorations detailed in the Geotechnical Engineering Investigation prepared for the Project site, the near surface soil deposits at the site consist of approximately 7.5 ft of medium dense silty sand followed by interbedded layers of very stiff to hard low plastic silts and clays (ML and CL) to the maximum explored depth of 31.5. Groundwater was encountered at a depth of 30.5 ft BGS. Based on the site location, the relatively low intensity of ground shaking expected, the relatively deep ground water and the consistency of the subsurface materials, the possibility of large differential settlements due to seismic dry sand settlement or liquefaction is considered low.

Therefore, because of the relatively low intensity of ground shaking expected, the relatively deep ground water and the consistency of the subsurface materials, the possibility of large differential settlements due to seismic dry sand settlement or liquefaction is considered low.

Lateral Spreading

Lateral spreading typically results when ground shaking moves soil toward an area where the soil integrity is weak or unsupported, and it typically occurs on the surface of a slope, although it does not occur strictly on steep slopes. Oftentimes, lateral spreading is directly associated with areas of liquefaction. Since the potential for liquefaction is low, the potential for lateral spreading is low; additionally, because the Project site is essentially flat, lateral spreading of soils has not been observed.

Landslides

The California Geological Survey classifies landslides with a two-part designation based on Varnes (1978) and Cruden and Varnes (1996). The designation captures both the type of material that failed and the type of movement that the failed material exhibited. Material types are broadly categorized as either rock or soil, or a combination of the two for complex movements. Landslide movements are categorized as falls, topples, spreads, slides, or flows.

Landslide potential is influenced by physical factors, such as slope, soil, vegetation, and precipitation. Landslides require a slope, and can occur naturally from seismic activity, excessive saturation, and wildfires, or from human-made conditions such as construction disturbance, vegetation removal, wildfires, etc.

The Project site is essentially flat; therefore, the potential for a landslide in the Project site is low to non-existent.

FAULTS

A fault is a fracture in the crust of the earth along which rocks on one side have moved relative to those on the other side. A fault trace is the line on the earth's surface defining the fault. Displacement of the earth's crust along faults releases energy in the form of earthquakes and in some cases in fault creep. Most faults are the result of repeated displacements over a long period of time.

Surface rupture occurs when movement on a fault deep within the earth breaks through to the surface. Surface ruptures have been known to extend up to 50 miles with displacements of an inch to 20 feet. Fault rupture almost always follows preexisting faults, which are zones of weakness. Rupture may occur suddenly during an earthquake or slowly in the form of fault creep. Sudden displacements are more damaging to structures because they are accompanied by shaking.

Faults are classified as Historic, Holocene, Late Quaternary, Quaternary, and Pre-Quaternary according to the age of most recent movement. These classifications are described as follows:

- **Historic:** faults on which surface displacement has occurred within the past 200 years;
- **Holocene:** shows evidence of fault displacement within the past 11,000 years, but without historic record;
- **Late Quaternary:** shows evidence of fault displacement within the past 700,000 years, but may be younger due to a lack of overlying deposits that enable more accurate age estimates;
- **Quaternary:** shows evidence of displacement sometime during the past 1.6 million years;
- **Pre-Quaternary:** without recognized displacement during the past 1.6 million years.

Faults are further distinguished as active, potentially active, or inactive:

- **Active:** An active fault is a Historic or Holocene fault that has had surface displacement within the last 11,000 years;
- **Potentially Active:** A potentially active fault is a pre-Holocene Quaternary fault that has evidence of surface displacement between about 1.6 million and 11,000 years ago; and
- **Inactive:** An inactive fault is a pre-Quaternary fault that does not have evidence of surface displacement within the past 1.6 million years. The probability of fault rupture is considered low; however, this classification does not mean that inactive faults cannot, or will not, rupture.

The U.S. Geological Survey identifies potential seismic sources within the vicinity of the Project site. Two of the closest known faults classified as active by the California Geological Survey are the Greenville fault, located approximately 23.86 miles to the west, and the Foothills Fault System, located approximately 33 miles to the east. The Vernalis Fault, located approximately 13 miles to the west has had movement as recently as the Quaternary Period (Pliocene Epoch 2.588 million years ago to 11.7 thousand years ago) , thus, is considered a potentially active fault. Other faults that could potentially affect the Project site include the Mount Diablo Thrust, Calaveras, Hayward, Ortigalita and San Andreas Faults.

Fault Rupture

A fault rupture occurs when the surface of the earth breaks as a result of an earthquake, although this does not happen with all earthquakes. Surface ruptures have been known to extend up to 50 miles with displacements of an inch to 20 feet. Fault rupture almost always follows preexisting faults, which are zones of weakness. These ruptures generally occur in a weak area of an existing fault. Ruptures can be sudden (i.e., earthquake) or slow (i.e., fault creep). Sudden displacements are more damaging to structures because they are accompanied by shaking. The Alquist-Priolo Fault Zoning Act requires active earthquake fault zones to be mapped and it provides special development considerations within these zones. According to the California Division of Mines and Geology, a fault is active if it displays evidence of activity in the last 11,000 years (Hart and Bryant, revised 2007). Therefore, the potential for surface rupture from displacement or fault movement directly beneath the proposed Project is considered low. The Project site does not have surface expression of active faults and fault rupture is not anticipated.

SEISMIC HAZARD ZONES

Alquist-Priolo Fault Zones

An active earthquake fault, per California's Alquist-Priolo Act, is one that has ruptured within the Holocene Epoch (≈11,000 years). Based on this criterion, the California Geological Survey identifies Earthquake Fault Zones. These Earthquake Fault Zones are identified in Special Publication 42 (SP42), which is updated as new fault data become available. The SP42 lists all counties and cities within California that are affected by designated Earthquake Fault Zones. The Fault Zones are delineated on maps within SP42 (Earthquake Fault Zone Maps).

The California legislature passed the Alquist-Priolo Special Studies Zone Act in 1972 to address seismic hazards associated with faults and to establish criteria for developments for areas with identified seismic hazard zones. The California Geologic Survey (CGS) evaluates faults with available geologic and seismologic data and determines if a fault should be zoned as active, potentially active, or inactive. If CGS determines a fault to be active, then it is typically incorporated into a Special Studies Zone in accordance with the Alquist-Priolo Earthquake Hazard Act. Alquist-Priolo Special Study Zones are usually one-quarter mile or less in width and require site-specific evaluation of fault location and require a structure setback if the fault is found traversing a project site. Based on the Geotechnical Engineering Investigation prepared for the Project site it appears that geologic hazards at the site are primarily limited to those caused by violent shaking from earthquake generated ground motion waves. The Project site is not in an Alquist-Priolo special studies zone.

PALEONTOLOGICAL RESOURCES

The often-unseen records of past life buried in the sediments and rocks below the ground surface are among natural resources deserving conservation and preservation. These records are often under the pavement, buildings, soils, and vegetation that are covered by developed areas, but are also found in undeveloped areas that are either in their natural condition or under agricultural use. These records – fossils and their geologic context – can exist in large quantities below the surface in many areas in Stanislaus County, and span millions of years in age of origin. Fossils constitute a nonrenewable resource, meaning once they are lost or destroyed, the exact information they contained can never be reproduced.

Paleontology is the science that attempts to unravel the meaning of these fossils in terms of the organisms they represent, the ages and geographic distribution of those organisms, how they interacted in ancient ecosystems and responded to past climatic changes, and the changes through time of all of these aspects.

The sensitivity of a given area or body of sediment with respect to paleontological resources is a function of both the potential for the existence of fossils and the predicted significance of any fossils which may be found there. The primary consideration in the determination of paleontological sensitivity of a given area, body of sediment, or rock formation is its potential to include fossils.

Information that can contribute to assessment of this potential includes: 1) direct observation of fossils within the project area; 2) the existence of known fossil localities or documented absence of fossils in the same geologic unit (e.g., "Formation" or one of its subunits); 3) descriptive nature of sedimentary deposits (such as size of included particles or clasts, color, and bedding type) in the area of interest compared with those of similar deposits known elsewhere to favor or disfavor inclusion of fossils; and 4) interpretation of sediment details and known geologic history of the sedimentary body of interest in terms of the ancient environments in which they were deposited, followed by assessment of the favorability of those environments for the preservation of fossils.

The most general paleontological information can be obtained from geologic maps, but geologic cross sections (slices of geologic layers to view the third dimension) must be reviewed for an area in question (i.e. if such resources are discovered). These usually accompany geologic maps or technical reports. Once it can be determined which formations may be present in the subsurface, the question of paleontological resources must be addressed. Even though a formation is known to contain fossils, they are not usually distributed uniformly throughout the many square miles the formation may cover. If the fossils were part of a marine environment when they died, perhaps a scattered layer of shells will be preserved over large areas. If on the other hand, a whale died in this bay, you might expect to find fossil whalebone only in one small area of less than a few hundred square feet.

Other resources to be considered in the determination of paleontological potential are regional geologic reports, site records on file with paleontological repositories and site-specific field surveys.

Paleontologists consider all vertebrate fossils to be of significance. Fossils of other types are considered significant if they represent a new record, new species, an oldest occurring species, the most complete specimen of its kind, a rare species worldwide, or a species helpful in the dating of formations. However, even a previously designated low potential site may yield significant fossils.

Regional Paleontological Setting

SAN JOAQUIN VALLEY

The following summary of the geological evolution of San Joaquin County and the potential for paleontological resources is based on the San Joaquin County General Plan Draft EIR. During the Mesozoic Era (208–65 million years ago), the Sierra Nevada formed, but the region that would become the San Joaquin Valley lay several thousand feet below the surface of the Pacific Ocean. During the Late Cretaceous Period (75–65 million years ago [mya]), flowering plants, early dinosaurs, and the first birds and mammals appeared. The basic form of the Great Central Valley took shape during the Cenozoic period, first as islands, then as mountains. During the late Cenozoic Era (65–2 mya), the Sierra Nevada eroded to mere hills compared to their earlier appearance, the Coast Ranges rose, and the San Joaquin Valley began to form.

During the Paleocene Epoch (65–53 mya), dinosaurs became extinct and mammals gradually evolved as the dominant group of animal life. During the Eocene Epoch (53–39 mya), the western edges of the San Joaquin Valley rose above sea level. Sedimentation and tectonic uplift of geological

formations continued until two million years ago. In the subsequent Oligocene Epoch (39–23 mya), sedimentation continued, and during the Miocene Epoch (23–5 mya) the Diablo Range was uplifted. The Pliocene Epoch (5–2 mya) was a time of tremendous uplift, and great quantities of sediment eroded from the nearby mountain ranges accumulated in the valley, eventually forming a deposit thousands of feet thick. In the Pleistocene Epoch (2 million to 10,000 years ago), the Sierra Nevada range was increasingly elevated and glaciated, resulting in the formation of spectacular features such as Yosemite Valley. During the Holocene Epoch (10,000 years ago to the present), the San Joaquin Valley was above sea level and achieved its present appearance, 466 miles long and 19 to 50 miles wide, enclosed by the Siskiyou, Sierra Nevada, Tehachapi, and Coast Ranges on the north, east, south, and west, respectively. The valley contained fresh water lakes and rivers attractive to herds of prehistoric grazing animals, including Columbian Mammoth, camel, bison, and native horse. The fossil remains of these creatures have been found in San Joaquin County and adjacent areas. The vast majority of paleontological specimens from San Joaquin County have been found in rock formations in the foothills of the Diablo Mountain Range. However, remains of extinct animals such as mammoth, could be found virtually anywhere in the county, especially along watercourses such as the San Joaquin River and its tributaries.

CITY OF LATHROP PLANNING AREA

The Geologic Map of California, prepared by the California Department of Conservation California Geological Survey, identifies the generalized rock types in the Planning Area is Quaternary Alluvium "Q" which is younger alluvium that consists of marine and nonmarine (continental) sedimentary rocks from the Pleistocene through Holocene Epochs that are composed of alluvium, lake, playa, and terrace deposits, both unconsolidated and semi-consolidated. This type is mostly nonmarine deposits but does include marine deposits near the coast.

According to a records search of the University of California Museum of Paleontology (UCMP) Collections Date, eighty fossils have been found and recorded within San Joaquin County. Over half of them are dated to the tertiary period, with quaternary being the second most frequent period. These are the first and second periods of the Cenozoic Era respectively, during which modern flora, apes, large mammals, and eventually humans developed. The majority of fossils found within the Lathrop area have been vertebrate in nature. These fossils include mammoth/mastodon, horse, pocket gopher, and other unspecified rodents, and unidentified artiodactyl (hoofed mammal) bone.

3.6.2 REGULATORY SETTING

FEDERAL

Earthquake Hazards Reduction Act

The Earthquake Hazards Reduction Act of 1977 (42 USC, 7701 et seq.) requires the establishment and maintenance of an earthquake hazards reduction program by the Federal government.

Executive Order 12699

Signed in January 1990, this executive order of the President implements provisions of the Earthquake Hazards Reduction Act for "federal, federally assisted or federally regulated new building construction" and requires the development and implementation of seismic safety programs by Federal agencies.

International Building Code (IBC)

The purpose of the International Building Code (IBC) is to provide minimum standards to preserve the public peace, health, and safety by regulating the design, construction, quality of materials, certain equipment, location, grading, use, occupancy, and maintenance of all buildings and structures. IBC standards address foundation design, shear wall strength, and other structurally related conditions.

STATE

California Building Standards Code

Title 24 of the California Code of Regulations, known as the California Building Standards Code (CBSC) or simply "Title 24," contains the regulations that govern the construction of buildings in California. The CBSC includes 12 parts: California Building Standards Administrative Code, California Building Code, California Residential Building Code, California Electrical Code, California Mechanical Code, California Plumbing Code, California Energy Code, California Historical Building Code, California Fire Code, California Existing Building Code, California Green Building Standards Code (CAL Green Code), and the California Reference Standards Code. Through the CBSC, the State provides a minimum standard for building design and construction. The CBSC contains specific requirements for seismic safety, excavation, foundations, retaining walls, and site demolition. It also regulates grading activities, including drainage and erosion control.

California Health and Safety Code

Section 19100 et seq. of the California Health and Safety Code establishes the State's regulations for earthquake protection. This section of the code requires structural designs to be capable of resisting likely stresses produced by phenomena such as strong winds and earthquakes.

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act of 1972 sets forth the policies and criteria of the State Mining and Geology Board, which governs the exercise of governments' responsibilities to prohibit the location of developments and structures for human occupancy across the trace of active faults. The policies and criteria are limited to potential hazards resulting from surface faulting or fault creep within Earthquake Fault Zones, as delineated on maps officially issued by the State Geologist. Working definitions include:

- Fault – a fracture or zone of closely associated fractures along which rocks on one side have been displaced with respect to those on the other side;
- Fault Zone – a zone of related faults, which commonly are braided and sub parallel, but may be branching and divergent. A fault zone has a significant width (with respect to the scale at which the fault is being considered, portrayed, or investigated), ranging from a few feet to several miles;
- Sufficiently Active Fault – a fault that has evidence of Holocene surface displacement along one or more of its segments or branches (last 11,000 years); and
- Well-Defined Fault – a fault whose trace is clearly detectable by a trained geologist as a physical feature at or just below the ground surface. The geologist should be able to locate the fault in the field with sufficient precision and confidence to indicate that the required site-specific investigations would meet with some success.

"Sufficiently Active" and "Well Defined" are the two criteria used by the State to determine if a fault should be zoned under the Alquist-Priolo Act.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act, passed in 1990, addresses non-surface fault rupture earthquake hazards, including liquefaction and seismically-induced landslides. Under the Act, seismic hazard zones are to be mapped by the State Geologist to assist local governments in land use planning. The program and actions mandated by the Seismic Hazards Mapping Act closely resemble those of the Alquist-Priolo Earthquake Fault Zoning Act (which addresses only surface fault-rupture hazards) and are outlined below:

The State Geologist is required to delineate the various "seismic hazard zones."

- Cities and counties, or other local permitting authority, must regulate certain development "projects" within the zones. They must withhold the development permits for a site within a zone until the geologic and soil conditions of the site are investigated and appropriate mitigation measures, if any, are incorporated into development plans.
- The State Mining and Geology Board provides additional regulations, policies, and criteria to guide cities and counties in their implementation of the law. The Board also provides guidelines for preparation of the Seismic Hazard Zone Maps and for evaluating and mitigating seismic hazards.

Sellers (and their agents) of real property within a mapped hazard zone must disclose that the property lies within such a zone at the time of sale.

National Pollution Discharge Elimination System (NPDES) Construction General Permit

The California State Water Resource Control Board (SWRCB) Order No. 2009-0009-DWQ known as the "Construction General Permit" was adopted on September 2, 2009 and was amended by Order No 2012-0006-DWQ which became effective on July 17, 2012. This NPDES permit establishes a risk-

based approach to stormwater control requirements for construction projects by identifying three project risk levels. The main objectives of the General Permit are to:

- Reduce erosion
- Minimize or eliminate sediment in stormwater discharges
- Prevent materials used at a construction site from contacting stormwater
- Implement a sampling and analysis program
- Eliminate unauthorized non-stormwater discharges from construction sites
- Implement appropriate measures to reduce potential impacts on waterways both during and after construction of projects
- Establish maintenance commitments on post-construction pollution control measures

California mandates requirements for all construction activities disturbing more than one acre of land to develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP documents the selection and implementation of Best Management Practices (BMPs) for a specific construction project, charging owners with stormwater quality management responsibilities. A construction site subject to the General Permit must prepare and implement a SWPPP that meets the requirements of the General Permit.

Division of Mines and Geology

The California Division of Mines and Geology (DMG) operates within the Department of Conservation. The DMG is responsible for assisting in the utilization of mineral deposits and the identification of geological hazards.

Surface Mining and Reclamation Act of 1975

The California Department of Conservation Surface Mining and Reclamation Act of 1975 (Section 2710), also known as SMARA, provides a comprehensive surface mining and reclamation policy that permits the continued mining of minerals, as well as the protection and subsequent beneficial use of the mined and reclaimed land. The purpose of SMARA is to ensure that adverse environmental effects are prevented or minimized and that mined lands are reclaimed to a usable condition and are readily adaptable for alternative land uses. The production and conservation of minerals are encouraged, while also giving consideration to values relating to recreation, wildlife, range and forage, as well as aesthetic enjoyment. Residual hazards to public health and safety are eliminated. These goals are achieved through land use planning by allowing a jurisdiction to balance the economic benefits of resource reclamation with the need to provide other land uses.

If a use is proposed that might threaten the potential recovery of minerals from an area that has been classified MRZ-2, SMARA would require the jurisdiction to prepare a statement specifying its reasons for permitting the proposed use, provide public notice of these reasons, and forward a copy of the statement to the State Geologist and the State Mining and Geology Board (Cal. Pub. Res. Code Section 2762). Lands classified MRZ-2 are areas that contain identified mineral resources.

State Geological Survey

Similar to the DMG, the California Geological Survey is responsible for assisting in the identification and proper utilization of mineral deposits, as well as the identification of fault locations and other geological hazards.

State Laws Pertaining to Paleontological Resources

Section 5097.5 of the California Public Resources Code prohibits "knowing and willful" excavation, removal, destruction, injury, and defacement of any "vertebrate paleontological site, including fossilized footprints," on public lands, except where the agency with jurisdiction has granted express permission. "As used in this section, 'public lands' means lands owned by, or under the jurisdiction of, the state, or any city, county, district, authority, or public corporation, or any agency thereof." Section 30244 of the California Public Resources Code requires reasonable mitigation for impacts on paleontological resources that occur as a result of development on public lands.

Section 4307–4309 of the California Code of Regulations relating to the Department of Parks and Recreation affords protection to geologic features, "paleontological features", and objects of archaeological, or historical interest or value, and grants the Department of Parks and Recreation the power to grant a permit to "remove, treat, disturb, or destroy plants or animals or geological, historical, archaeological or paleontological materials." (California Code of Regulations, Title 14, Section 4307–4309).

LOCAL

City of Lathrop General Plan

General Plan policies applicable to the Project are identified below:

POLICIES: SAFETY ELEMENT

- PS-1.1. Geologic Hazard Identification. Review and monitor geologic and seismic hazards maps in concert with updates from the California Geologic Survey and local surveys.
- PS-1.2. Earthquake Protection. Enforce State seismic design standards and guidelines and all relevant building codes to reduce the risk of damage associated with seismic activity.
- PS-1.3. Development. Require special site-specific studies, generally including but not limited to, soil compaction tests and geotechnical reports, for development projects and City improvement projects to determine the nature and extent of possible liquefaction, landslides, and geologic hazards, and to identify engineering and development siting measures to permit development to occur.
- PS-1.4. Development Inspection. Require professional inspection of foundation, excavation, earthwork, and other geotechnical aspects of site development during constructions on those sites specified in geotechnical studies as being prone to seismic or geologic hazard.

- PS-1.6. Compliance. Require all structures located within areas containing expansive soils to be designed and engineered to comply with the California Code of Regulations (CCR), Title 24.

City of Lathrop Municipal Code

Chapter 15.04 of the Lathrop Municipal Code adopts the 2019 CBSC, with amendments to address administrative provisions, additional requirements to address connection of existing slabs to new construction, as the building code of the City. Additionally, Chapter 15.54 of the Lathrop Municipal Code describes when a geotechnical report would be required.

3.6.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on geology and soils if it will:

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
    - 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;
    - Strong seismic ground shaking;
    - Seismic-related ground failure, including liquefaction; or
    - Landslides.
- Result in substantial soil erosion or the loss of topsoil;
- 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;
- 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;
- Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

IMPACTS AND MITIGATION MEASURES

Impact 3.6-1: The proposed Project may expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, including liquefaction, or landslides (Less than Significant)

Development of the proposed Project could result in the exposure of people and structures to conditions that have the potential for adverse effects associated with rupture of a known earthquake fault, strong seismic ground shaking, and seismic-related ground failure, including liquefaction, or landslides. Each are discussed below.

GROUND RUPTURE

The California Geologic Survey (CGS) evaluates faults and determines if a fault should be zoned as active, potentially active, or inactive. All active faults are incorporated into a Special Studies Zone, also referred to as an Alquist-Priolo Special Study Zone. The Project site is not within an Alquist-Priolo Special Study Zone.

Two of the closest known faults classified as active by the California Geological Survey are the Greenville fault, located approximately 23 miles to the west, and the Foothills Fault System, located approximately 33 miles to the east. Therefore, because no faults are located on the Project sites, the potential for ground rupture (cracking or breaking of the ground during an earthquake) would be ***less than significant***.

GROUND SHAKING

While there are no known active faults located within the City of Lathrop, the area could experience considerable ground shaking generated by faults outside Lathrop. For example, Lathrop could experience an intensity of MM V to VII generated by seismic events. The effect of this intensity level could have structural damage. Soil data from the NRCS Web Soil Survey (NRCS 2020) suggests that the potential for liquefaction ranges from low to high within the Planning Area given that many soils are high in sand and the water table is moderately high.

To reduce the impact of seismic ground shaking on the development, the Project would be required to comply with the provisions of the CBSC, which requires development projects to: perform geotechnical investigations in accordance with State law, engineer improvements to address potential seismic and ground failure issues and use earthquake-resistant construction techniques to address potential earthquake loads when constructing buildings and improvements. As future development and infrastructure projects are considered by the City, each project will be evaluated for conformance with the CBSC, General Plan, Zoning Ordinance, and other regulations. Subsequent development and infrastructure would also be analyzed for potential environmental impacts, consistent with the requirements of CEQA. In addition to the requirements associated with the CBSC and the Municipal Code, the General Plan includes policies and actions to address potential impacts

associated with seismic activity. Design in accordance with these standards and policies would reduce any potential impact as a result of ground shaking to a ***less than significant*** level.

LIQUEFICATION

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded, fine-grained sands. Based on the Geotechnical Engineering Investigation prepared for the project site, the relatively low intensity of ground shaking expected, the relatively deep ground water and the consistency of the subsurface materials, the possibility of large differential settlements due to seismic dry sand settlement or liquefaction is considered low. Therefore, the potential for catastrophic building collapse due to a seismic liquefaction event is ***less than significant***.

LANDSLIDES

The Project site is essentially flat; therefore, the potential for a landslide in the Project site is low to non-existent. Some limited potential for slope instability risk could arise during grading and construction activities, where slopes could be over-steepened. However, this risk is mitigated by adhering to relevant California Building Code requirements. Additionally, according to the California Earthquake Hazards Zone Application, the site is not located within a Landslide and Liquefication Zone. As a result, the probability of landslides causing substantial adverse effects on people or structures is ***less than significant***.

CONCLUSION

The Project site is subject to potential ground shaking caused by seismic activity. Seismic activity could come from a known active fault, or any number of other faults in the region. In order to minimize potential damage to the buildings and site improvements, all construction in California is required to be designed in accordance with the latest seismic design standards of the California Building Code. As discussed under Section 3.6.2, Regulatory Setting, the California Building Code, Title 24, Part 2, Chapter 16 addresses structural design and Chapter 18 addresses soils and foundations. Collectively, these requirements, which have been adopted by the City of Lathrop (Chapter 15.04), include design standards and requirements that are intended to minimize impacts to structures in seismically active areas of California. Section 1613 of the California Building Code specifically provides structural design standards for earthquake loads. Therefore, with the implementation of the applicable State and City codes, potential impacts associated with a seismic event, including rupture of an earthquake fault, seismic ground shaking, liquefaction, and landslides would be ***less than significant***.

Impact 3.6-2: Implementation and construction of the proposed Project may result in substantial soil erosion or the loss of topsoil. (Less than Significant)

According to the United States Environmental Protection Agency, polluted stormwater runoff is a leading cause of impairment to the nearly 40 percent of surveyed U.S. water bodies which do not

meet water quality standards. Over land or via storm sewer systems, polluted runoff is discharged, often untreated, directly into local water bodies. Soil erosion and the loss of topsoil is one of the most common sources of polluted stormwater runoff during construction activities. When left uncontrolled, stormwater runoff can erode soil and cause sedimentation in waterways, which collectively result in the destruction of fish, wildlife, and aquatic life habitats; a loss in aesthetic value; and threats to public health due to contaminated food, drinking water supplies, and recreational waterways.

Mandated by Congress under the Clean Water Act, the NPDES Stormwater Program is a comprehensive two-phased national program for addressing the non-agricultural sources of stormwater discharges which adversely affect the quality of our nation's waters. The program uses the NPDES permitting mechanism to require the implementation of controls designed to prevent harmful pollutants, including soil erosion, from being washed by stormwater runoff into local water bodies. The construction activities for the proposed Project would be governed by the General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ), which states:

> *"…Particular attention must be paid to large, mass graded sites where the potential for soil exposure to the erosive effects of rainfall and wind is great and where there is potential for significant sediment discharge from the site to surface waters. Until permanent vegetation is established, soil cover is the most cost-effective and expeditious method to protect soil particles from detachment and transport by rainfall. Temporary soil stabilization can be the single most important factor in reducing erosion at construction sites. The discharger is required to consider measures such as: covering disturbed areas with mulch, temporary seeding, soil stabilizers, binders, fiber rolls or blankets, temporary vegetation, and permanent seeding. These erosion control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed. Erosion control BMPs should be the primary means of preventing stormwater contamination, and sediment control techniques should be used to capture any soil that becomes eroded…"*

General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ) further states that:

> *"Sediment control BMPs should be the secondary means of preventing stormwater contamination. When erosion control techniques are ineffective, sediment control techniques should be used to capture any soil that becomes eroded. The discharger is required to consider perimeter control measures such as: installing silt fences or placing straw wattles below slopes. These sediment control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed…Inappropriate management of run-on and runoff can result in excessive physical impacts to receiving waters from sediment and increased flows. The discharger is required to manage all run-on and runoff from a project site. Examples include: installing berms and other temporary run-on and runoff diversions…All measures*

must be periodically inspected, maintained and repaired to ensure that receiving water quality is protected. Frequent inspections coupled with thorough documentation and timely repair is necessary to ensure that all measures are functioning as intended…"

To ensure that construction activities are covered under General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ), projects in California must prepare a Stormwater Pollution Prevention Plan (SWPPP) containing Best Management Practices (BMPs) to reduce erosion and sediments to meet water quality standards. Such BMPs may include: temporary erosion control measures such as silt fences, staked straw bales/wattles, silt/sediment basins and traps, check dams, geofabric, sandbag dikes, and temporary revegetation or other ground cover. The BMPs and overall SWPPP is reviewed by the Regional Water Quality Control Board as part of the permitting process. The SWPPP, once approved, is kept on site and implemented during construction activities and must be made available upon request to representatives of the RWQCB and/or the lead agency.

The Geotechnical Engineering Investigation identified the erosion potential for the majority of soils in the Project site as low. Furthermore, because the Project site is essentially flat, the erosion potential is considered slight. Regardless of the potential for erosion, there is always the potential for human caused erosion associated with construction activities or through the operational phase of a project. Grading, excavation, removal of vegetation cover, and loading activities associated with construction activities temporarily expose soils and increase the potential for soil erosion and sedimentation during rail events. Construction activities can also result in soil compaction and wind erosion effects that can adversely affect soils and reduce the revegetation potential at construction sites and staging areas.

In accordance with the NPDES Stormwater Program, the Project requires an approved SWPPP designed to control erosion and the loss of topsoil to the extent practicable using BMPs that the RWQCB has deemed effective in controlling erosion, sedimentation, runoff during construction activities. The RWQCB has stated that these erosion control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed. The specific controls are subject to the review and approval by the RWQCB and are existing regulatory requirements. Overall, the proposed project would have a ***less than significant*** impact relative to this topic.

Impact 3.6-3: The proposed Project has the potential to be located on a geologic unit or soil that is unstable, or that would become unstable as a result of Project implementation, and potentially result in landslide, lateral spreading, subsidence, liquefaction or collapse. (Less than Significant with Mitigation)

Development of the proposed Project could result in the exposure of people and structures to conditions that have the potential for adverse effects associated with ground instability or failure. Soils and geologic conditions in the Project site have the potential for landslides, lateral spreading, subsidence, liquefaction, or collapse. Each are discussed below:

LIQUEFACTION

As discussed in Impact 3.6-1, soil data from the NRCS Web Soil Survey suggests a low potential for liquefaction in the Project site. Additionally, the Geotechnical Engineering Investigation confirmed that liquefaction is not considered a significant threat.

LATERAL SPREADING

Lateral spreading generally is a phenomenon where blocks of intact, non-liquefied soil move down slope on a liquefied substrate of large areal extent. The potential for liquefaction at the Project site is low; therefore, the potential for lateral spreading of soils is also low.

LANDSLIDES

As discussed in Impact 3.6-1, the Project site is essentially flat and, to date, the Seismic Hazards Zonation Program of the CGS has not identified any seismically-induced landslide zones in the City of Lathrop or in the Project site. Therefore, the potential for a landslide in the Project site is low to non-existent.

COLLAPSIBLE SOILS

Collapsible soils occur predominantly at the base of mountain ranges, where Holocene-age alluvial fan and wash sediments have been deposited during rapid run-off events. Differential settlement of structures typically occurs when heavily irrigated landscape areas are near a building foundation. Collapsible soils have not been identified in the Lathrop General Plan as an issue in the Lathrop area. However, in areas subject to potential liquefaction, the potential for liquefaction induced settlement is present.

SUBSIDENCE

Land subsidence is the gradual settling or sinking of an area with little or no horizontal motion due to changes taking place underground. It is a natural process, although it can also occur (and is greatly accelerated) as a result of human activities. Subsidence has not been identified in the Lathrop General Plan as an issue in the Lathrop area.

CONCLUSION

The Project site does not have a significant risk of becoming unstable as a result of landslide, subsidence, soil collapse, liquefaction, liquefaction induced settlement, or lateral spreading. Nevertheless, while the Geotechnical Engineering Investigation concludes that construction of the Project is feasible from a geotechnical standpoint provided the site preparation, grading and building recommendations in the Investigation are incorporated. Therefore, with implementation of the following mitigation measures, as recommended by the Geotechnical Engineering Investigation, in addition to compliance with applicable laws, standards, and guidelines, (including the CBSC and

City's Municipal Code), the proposed Project would have a ***less than significant*** impact relative to this topic.

MITIGATION MEASURE(S)

Mitigation Measure 3.6-1: *Prior to the start of ground disturbing activities, a geotechnical engineer shall review project improvement plans (including but not limited to grading plans and site plans) to identify potential conflicts and to verify that the recommendations contained in the Geotechnical Engineering Investigation completed for the project (CTE CAL, Inc., 2022) (Appendix D of the Draft EIR) are noted on project improvement plans. The recommendations are generally outlined in Mitigation Measure 3.6-2 while the complete recommendations are included in Chapter 5 of the Geotechnical Engineering Investigation.*

Mitigation Measure 3.6-1: *All grading operations and construction shall be conducted in conformance with the recommendations included in the Geotechnical Engineering Investigation for Singh Petroleum Investments Percolation (CTE CAL, Inc., 2022) (Appendix D of the Draft EIR). Specific recommendations in the Geotechnical Engineering Investigation address the following and shall be incorporated into the final Project plans and construction-level geotechnical report:*

1. *The Project proponent shall ensure that any loose, wet or otherwise unstable soil in the Project site shall be excavated and evaluated by Construction Testing & Engineering, Inc. (CTE) for possible re-use as engineered fill or disposed of offsite. Utilities that extend into the construction area and are scheduled to be abandoned shall be properly capped at the perimeter of the construction zone or moved as directed in the plans. A licensed Geotechnical Engineer shall observe and confirm that all asphalt and concrete debris, vegetation, and other organic material has been adequately removed in all proposed improvement areas.*

2. *Reinforced continuous and isolated spread footing foundations shall be used to support the proposed structures as the subject site consistent with the recommendations provided in Section 5.4, Lateral Load Resistance, provided in the Geotechnical Engineering Investigation.*

3. *Shallow footings shall be designed to resist lateral loads using the coefficient of friction.*

4. *Free draining retaining walls backfilled using permeable onsite soils or import fill, shall be designed using the equivalent fluid weights consistent with the recommendations provided in Section 5.5, Retaining Walls, provided in the Geotechnical Engineering Investigation.*

5. *Utility trenches placed along the perimeter of proposed foundations shall be constructed consistent with Section 5.6, Foundation Setback, provided in the Geotechnical Engineering Investigation.*

6. *All concrete slabs-on-ground placed beneath the structures hall be constructed consistent with Section 5.7, Concrete Slabs-On-Grade, provided in the Geotechnical Engineering Investigation.*

7. *All pavements shall be designed and constructed according to California Department of Transportation (Caltrans) standards consistent with Section 5.9, Pavement Section Alternatives, recommendations provided in the Geotechnical Engineering Investigation. The subgrade beneath all pavements shall be moisture conditioned and compacted in accordance with Table 5.2 of the Geotechnical Engineering Investigation as per ASTM D1557.*

8. *Ground conditions shall be consistent with Section 5.10, Drainage, provided in the Geotechnical Engineering Investigation.*

9. *The project shall be consistent with Section 5.8, Seismic Design Criteria, provided in the Geotechnical Engineering Investigation.*

10. *The exposed over excavated surface shall then be scarified to a depth of approximately 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2 of the Geotechnical Engineering Investigation. Moisture density relationship shall be established in accordance with ASTM D1557. The compaction percent listed in Table 5.2 shall be based on percent relative compaction when compared to the maximum dry density determined in accordance with ASTM D1557. Additional engineered fill, if required, shall then be placed in 8 inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.*

    After stripping in pavement improvement areas is conducted, the stripped areas shall be over excavated to 12 inches below the proposed pavement subgrade. The excavated surface shall then be scarified to a minimum depth of 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2. Moisture-density relationship shall be established in accordance with ASTM D1557. Proof rolling with heavy equipment shall be performed with CTE Cal present to confirm that subgrade is compacted, stable and does not deflect under heavy equipment loads. Additional engineered fill, if required, shall then be placed in 8-inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.

    Import soils proposed for engineered fill shall consist of soil deposits having an Expansion Index EI < 20 or liquid limit less than 30 (LL< 12), with no particles greater than 3 inches and 20 to 80% of the soil particles passing the #200 sieve. Imported fill meeting these requirements shall be placed in 8 inch loose lifts, moisture conditioned and compacted to the moisture content and percent relative compaction stated in table 5.2. A CTE representative shall approve all imported soils prior to delivery to the site.

    If unanticipated, unsuitable or unstable materials are encountered at the surface improvement subgrade or structure over-excavation such that proper compacted and stable materials cannot be obtained, over-excavations to remove such materials may be required. A licensed Geotechnical Engineer shall inspect and approve all structure over-excavations, pavement and surface improvement subgrade areas to confirm that adequate soil conditions have been reached. The geotechnical engineer shall also observe and approve the

scarification, moisture conditioning and recompaction of the excavated surfaces and the placement of all engineered fill.

11. *All earthworks shall be observed and tested by a licensed Geotechnical Engineer to verify that grading activity has been performed according to the recommendations contained within the Geotechnical Engineering Investigation prepared for the Project. The project engineer shall evaluate all footing excavations before reinforcing steel placement. To assure that the recommendations contained within the Geotechnical Engineering Investigation are adhered to the following minimum inspection and testing services shall be performed with regard to the geotechnical design of the project.*
    a. *Continuous observation and testing during mass grading.*
    b. *Footing excavation inspection.*
    c. *Periodic Utility trench backfill testing for moisture and relative compaction.*
    d. *Slab subgrade inspection and testing prior to the placement of capillary moisture break materials for moisture and relative compaction.*
    e. *Pavement Class 2 Base inspection and testing prior to the placement of asphalt or concrete pavement.*
    f. *Asphalt relative compaction testing during pavement placement.*

12. *During Project construction, the Project proponent shall ensure that the areas underlying proposed structures be over excavated to the depth stated in Table 5.2 of the Geotechnical Engineering Investigation prepared for the Project by Construction Testing & Engineering, Inc. (CTE). The building pad over excavation shall extend to a minimum distance of at least 5 feet outside of all proposed structure areas if possible.*

Impact 3.6-4: The proposed Project has the potential to result in development 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)

Expansive soils are those that undergo volume changes as moisture content fluctuates; swelling substantially when wet or shrinking when dry. According to the Geotechnical Engineering Investigation prepared for the Project, the soils in the Project Area have a low shrink-swell potential.

The California Building Code Title 24, Part 2, Chapter 18, Section 1803.1.1.2 requires specific geotechnical evaluation when a preliminary geotechnical evaluation determines that expansive or other special soil conditions are present, which, if not corrected, would lead to structural defects. As mentioned before, a Geotechnical Engineering Investigation was prepared for the proposed Project by CTE which addresses structural design, tests and inspections, and soils and foundation standards performed by a certified geotechnical engineer. The final Geotechnical Engineering Investigation included design recommendations to ensure that soil conditions do not pose a threat to the health and safety of people or structures.

The grading and improvement plans, as well as the storm drainage and building plans, are required to be designed in accordance with the recommendations provided in the final geotechnical evaluation. There is nothing proposed that would exacerbate existing environmental hazards or conditions that already exist and the project would not create a substantial direct or indirect risk to life or property due to the effects of developing on expansive soil. Therefore, the proposed project would have a ***less than significant*** impact relative to this topic.

Impact 3.6-5: The proposed Project has the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature (Less than Significant with Mitigation)

Although the Project site is not expected to contain subsurface paleontological resources, the Project site is in an area known to have these resources and it is possible that undiscovered paleontological resources could be encountered during ground-disturbing activities. Damage to or destruction of a paleontological resource would be considered a potentially significant impact under local, state, or federal criteria. Implementation of Mitigation Measure 3.6-3 would ensure steps would be taken to reduce impacts to paleontological resources in the event that they are discovered during construction, including stopping work in the event potential resources are found, evaluation of the resource by a qualified paleontologist and appropriate handling of any potential resource. This mitigation measure would reduce this impact to a ***less than significant*** level.

MITIGATION MEASURE(S)

Mitigation Measure 3.6-3: *Prior to approval of a grading permit, the Project proponent shall ensure that grading and improvement plans include the following note: "If any paleontological resources are found during grading and construction activities of the Project, all work shall be halted immediately within a 200-foot radius of the discovery until a qualified paleontologist has evaluated the find. Work shall not continue at the discovery site until the paleontologist evaluates the find and makes a determination regarding the significance of the resource and identifies recommendations for conservation of the resource, including preserving in place or relocating on the Project site, if feasible, or collecting the resource to the extent feasible and documenting the find with the University of California Museum of Paleontology."*

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This section discusses regional greenhouse gas (GHG) emissions, climate change, and energy conservation impacts that could result from Project implementation. The analysis contained in this section is intended to be at a Project level, and covers impacts associated with the conversion of the entire site to urban uses. This section provides a background discussion of greenhouse gases and climate change linkages and effects of global climate change. This section is organized with an existing setting, regulatory setting, approach/methodology, and impact analysis. The analysis and discussion of the GHG, climate change, and energy conservation impacts in this section focuses on the proposed Project's consistency with local, regional, and statewide climate change planning efforts and discusses the context of these planning efforts as they relate to the proposed Project. Disclosure and discussion of the Project's estimated energy usage and greenhouse gas emissions are provided.

One comment was received during the public review period or scoping meeting for the Notice of Preparation regarding this topic from the San Joaquin Valley Air Pollution Control District (October 29, 2021). This comment is addressed within this section. The full comment is included in Appendix A.

3.7.1 ENVIRONMENTAL SETTING

GREENHOUSE GASES AND CLIMATE CHANGE LINKAGES

Various gases in the Earth's atmosphere, classified as atmospheric GHGs, play a critical role in determining the Earth's surface temperature. Solar radiation enters Earth's atmosphere from space, and a portion of the radiation is absorbed by the Earth's surface. The Earth emits this radiation back toward space, but the properties of the radiation change from high-frequency solar radiation to lower-frequency infrared radiation.

Naturally occurring GHGs include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and ozone (O_3). Several classes of halogenated substances that contain fluorine, chlorine, or bromine are also GHGs, but they are, for the most part, solely a product of industrial activities. Although the direct GHGs CO_2, CH_4, and N_2O occur naturally in the atmosphere, human activities have changed their atmospheric concentrations. From the pre-industrial era (i.e., ending about 1750) to 2011, concentrations of these three GHGs have increased globally by 40, 150, and 20 percent, respectively (IPCC, 2013).

GHGs, which are transparent to solar radiation, are effective in absorbing infrared radiation. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Among the prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), ozone (O_3), water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs).

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and

agricultural sectors. In California, the transportation sector is the largest emitter of GHGs, followed by the industrial and electricity generation sectors (California Energy Commission, 2023).

As the name implies, global climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern, respectively. California produced 369 million gross metric tons of carbon dioxide equivalents ($MMTCO_2e$) in 2022 (California Air Resources Board, 2023).

Carbon dioxide equivalents are a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect. This potential, known as the global warming potential of a GHG, is also dependent on the lifetime, or persistence, of the gas molecule in the atmosphere. Expressing GHG emissions in carbon dioxide equivalents takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO_2 were being emitted.

Consumption of fossil fuels in the transportation sector was the single largest source of California's GHG emissions in 2022, accounting for 38% of total GHG emissions in the State. This category was followed by the industrial sector (23%), the electricity generation sector (including both in-state and out of-state sources) (16%), the agriculture and forestry sector (9%), the residential energy consumption sector (8%), and the commercial energy consumption sector (6%) (California Air Resources Board, 2023).

EFFECTS OF GLOBAL CLIMATE CHANGE

The effects of increasing global temperature are far-reaching and extremely difficult to quantify. The scientific community continues to study the effects of global climate change. In general, increases in the ambient global temperature as a result of increased GHGs are anticipated to result in rising sea levels, which could threaten coastal areas through accelerated coastal erosion, threats to levees and inland water systems and disruption to coastal wetlands and habitat.

If the temperature of the ocean warms, it is anticipated that the winter snow season would be shortened. Snowpack in the Sierra Nevada provides both water supply (runoff) and storage (within the snowpack before melting), which is a major source of supply for the State. The snowpack portion of the supply could potentially decline by 50% to 75% by the end of the 21st century (National Resources Defense Council, 2014). This phenomenon could lead to significant challenges securing an adequate water supply for a growing state population. Further, the increased ocean temperature could result in increased moisture flux into the State; however, since this would likely increasingly come in the form of rain rather than snow in the high elevations, increased precipitation could lead to increased potential and severity of flood events, placing more pressure on California's levee/flood control system.

Sea level has risen approximately seven inches during the last century and it is predicted to rise an additional 22 to 35 inches by 2100, depending on the future GHG emissions levels (California Environmental Protection Agency, 2010). If this occurs, resultant effects could include increased coastal flooding, saltwater intrusion and disruption of wetlands. As the existing climate throughout

California changes over time, mass migration of species, or failure of species to migrate in time to adapt to the perturbations in climate, could also result. Under the emissions scenarios of the Climate Scenarios report (California Environmental Protection Agency, 2010), the impacts of global warming in California are anticipated to include, but are not limited to, the following.

Public Health

Higher temperatures are expected to increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation are projected to increase from 25% to 35% under the lower warming range and to 75% to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances depending on wind conditions. The Climate Scenarios report indicates that large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced.

In addition, under the higher warming scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a large increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures will increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

Water Resources

A vast network of man-made reservoirs and aqueducts capture and transport water throughout the State from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snow pack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snow pack, increasing the risk of summer water shortages.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater would degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta, a major State fresh water supply. Global warming is also projected to seriously affect agricultural areas, with California farmers projected to lose as much as 25% of the water supply they need; decrease the potential for hydropower production within the State (although the effects on hydropower are uncertain); and seriously harm winter tourism. Under the lower warming range, the snow dependent winter recreational season at lower elevations could be reduced by as much as one month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing, snowboarding, and other snow dependent recreational activities.

If GHG emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snow pack by as much as 70% to 90%. Under the lower warming scenario, snow pack losses are expected to be only half as large

as those expected if temperatures were to rise to the higher warming range. How much snow pack will be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snow pack would pose challenges to water managers, hamper hydropower generation, and nearly eliminate all skiing and other snow-related recreational activities.

Agriculture

Increased GHG emissions are expected to cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. Although higher carbon dioxide levels can stimulate plant production and increase plant water-use efficiency, California's farmers will face greater water demand for crops and a less reliable water supply as temperatures rise.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures are likely to worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits and nuts, and milk.

Crop growth and development will be affected, as will the intensity and frequency of pest and disease outbreaks. Rising temperatures will likely aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

In addition, continued global warming will likely shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion is expected in many species while range contractions are less likely in rapidly evolving species with significant populations already established. Should range contractions occur, it is likely that new or different weed species will fill the emerging gaps. Continued global warming is also likely to alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

Forests and Landscapes

Global warming is expected to alter the distribution and character of natural vegetation thereby resulting in a possible increased risk of large wildfires. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks will not be uniform throughout the State. For example, if precipitation increases as temperatures rise, wildfires in southern California are expected to increase by approximately 30% toward the end of the century. In contrast, precipitation decreases could increase wildfires in northern California by up to 90%.

Moreover, continued global warming will alter natural ecosystems and biological diversity within the State. For example, alpine and sub-alpine ecosystems are expected to decline by as much as 60%

to 80% by the end of the century as a result of increasing temperatures. The productivity of the State's forests is also expected to decrease as a result of global warming.

Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures will increasingly threaten the State's coastal regions. Under the higher warming scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.

ENERGY CONSUMPTION

Energy in California is consumed from a wide variety of sources. Fossil fuels (including gasoline and diesel fuel, natural gas, and energy used to generate electricity) are the most widely used form of energy in the State. However, renewable sources of energy (such as solar and wind) are growing in proportion to California's overall energy mix. A large driver of renewable sources of energy in California is the State's current Renewable Portfolio Standard (RPS), which requires the State to derive at least 60 percent of electricity generated by 2030, and to achieve zero-carbon emissions by 2045 (as passed in September 2018, under SB 100). The 2021 SB 100 Joint Agency Report was published in 2021, which found that the long-term goals contained in SB 100 are technically achievable through multiple pathways. Achieving 100% clean electricity would increase the total annual electricity system cost by 6% relative to the cost under the state's Renewables Portfolio Standard requirement of having at least 60 percent clean electricity by the end of 2030. These estimates will change over time as markets change, new technologies are commercialized, and additional factors such as grid reliability are included in future analyses.

Overall, in 2019, California's per capita energy usage was ranked second-lowest in the nation (U.S. EIA, 2020b). California's per capita rate of energy usage has remained relatively constant since the 1970's. Many State regulations since the 1970s, including new building energy efficiency standards, vehicle fleet efficiency measures, as well as growing public awareness, have helped to keep per capita energy usage in the State in check.

The consumption of non-renewable energy (i.e. fossil fuels) associated with the operation of passenger, public transit, and commercial vehicles results in GHG emissions that contribute to global climate change. Alternative fuels such as natural gas, ethanol, and electricity (unless derived from solar, wind, nuclear, or other energy sources that do not produce carbon emissions) also result in GHG emissions and contribute to global climate change.

Electricity Consumption

California relies on a regional power system composed of a diverse mix of natural gas, renewable, hydroelectric, and a very small amount of nuclear generation resources. In 2020, nearly one-half of the electricity supply came from facilities outside of the State. Much of the power delivered to California from states in the Pacific Northwest was generated by wind. States in the Southwest delivered power generated at coal-fired power plants, at natural gas-fired power plants, and from

nuclear generating stations (U.S. EIA, 2022). In 2020, approximately 41 percent of California's utility-scale net electricity generation was fueled by natural gas. In addition, about 48 percent of the State's utility-scale net electricity generation came from renewable sources, such as solar, wind, geothermal, hydropower, and biomass. Nuclear energy powered an additional 11 percent. The amount of electricity generated from coal was effectively zero (U.S. EIA, 2022). The percentage of renewable resources as a proportion of California's overall energy portfolio is increasing over time, as directed the State's Renewable Portfolio Standard (RPS).

According to the California Energy Commission (CEC), total statewide electricity consumption increased from 166,979 gigawatt-hours (GWh) in 1980 to 228,038 GWh in 1990, which is an estimated annual growth rate of 3.66 percent. The statewide electricity consumption in 1997 was 246,225 GWh, reflecting an annual growth rate of 1.14 percent between 1990 and 1997 (U.S. EIA, 2023b). Statewide consumption was 274,985 GWh in 2010, an annual growth rate of 0.9 percent between 1997 and 2010. In 2021, electricity consumption in San Joaquin County was 5,608 GWh (California Energy Commission, 2023).

PG&E is a publicly traded utility company that, under contract with the California Public Utilities Commission (CPUC), generates, purchases, and distributes energy. PG&E's service area covers 70,000 square miles, roughly extending north to south from Eureka to Bakersfield and east to west from the Sierra Nevada to the Pacific Ocean. PG&E's electricity distribution system consists of 106,681 circuit miles of electric distribution lines and 18,466 circuit miles of interconnected transmission lines.

PG&E's, electricity is generated from a combination of traditional sources, such as coal-fired plants, nuclear power plants, and hydroelectric dams, as well as newer sources of energy, such as wind turbines and photovoltaic plants, or "solar farms." "The grid," or bulk electric grid, is a network of high-voltage transmission lines that link power plants to the PG&E system. The distribution system, comprising lower-voltage secondary lines, is at the street and neighborhood level. It consists of overhead or underground distribution lines, transformers, and individual service "drops" that connect to individual customers.

In addition to its base plan, PG&E has three plan options, known as Solar Choice options and Green Saver, which give customers the option of purchasing energy from solar resources. The first Solar Choice option provides up to 50 percent of a customer's energy from solar resources, while the other option provides up to 100 percent of a customer's energy from solar resources, and the Green Saver option provides up to 90 percent of a customer's energy from solar resources.

Table 3.7-1 outlines PG&E's power mix in 2021, compared to the power mix for the state. The table identifies the renewable and non-renewable energy sources for PG&E. It should be noted that some GHG free sources are not considered renewable (e.g., nuclear is GHG free but not renewable).

TABLE 3.7-1. PG&E AND THE STATE OF CALIFORNIA POWER MIX IN 2021

ENERGY RESOURCES	*PG&E OPTION: BASE*	*PG&E OPTION: 50% SOLAR CHOICE*	*PG&E OPTION: 100% SOLAR*	*PG&E OPTION: GREEN SAVER*	*CALIFORNIA POWER MIX 2021*
Eligible Renewable	47.7%	70.9%	93.9%	89.9%	33.6%
Biomass and waste	4.2%	2.1%	0.0%	0.0%	2.3%
Geothermal	5.2%	2.6%	0.0%	0.0%	4.8%
Small hydroelectric	1.8%	0.9%	0.0%	0.0%	1.0%
Solar	25.7%	59.8%	93.9%	89.9%	14.2%
Wind	10.9%	5.5%	0.0%	0.0%	11.4%
Coal	0.0%	0.0%	0.0%	0.0%	3.0%
Large Hydroelectric	4.0%	2.0%	0.0%	0.0%	9.2%
Natural Gas	8.9%	7.4%	0.0%	0.0%	37.9%
Nuclear	39.3%	19.7%	0.0%	0.0%	9.3%
Other	0.0%	0.0%	0.0%	0.0%	0.2%
Unspecified	0.0%	0.0%	6.1%	10.1%	6.8%

SOURCE: PG&E. 2021. BUILDING A CLEANER, SAFER ENERGY FUTURE. AVAILABLE: HTTPS://WWW.PGE.COM/PGE_GLOBAL/COMMON/PDFS/YOUR-ACCOUNT/YOUR-BILL/UNDERSTAND-YOUR-BILL/BILL-INSERTS/2022/1022-POWER-CONTENT-LABEL.PDF. ACCESSED: SEPTEMBER 11, 2023.

[A.] ELECTRICITY FROM TRANSACTIONS THAT ARE NOT TRACEABLE TO SPECIFIC GENERATION SOURCES ARE CLASSIFIED AS UNSPECIFIED SOURCES OF POWER.

In 2021, the latest year for which data is available, statewide consumption was 277,205 GWh (California Energy Commission, 2022). In 2020, electricity consumption in San Joaquin County was 5,737 GWh (California Energy Commission, 2021).

Oil

The primary energy source for the United States is oil, which is refined to produce fuels like gasoline, diesel, and jet fuel. Oil is a finite, nonrenewable energy source. World consumption of petroleum products has grown steadily in the last several decades. As of 2019, world consumption of oil had reached approximately 98 million barrels per day. The United States, with approximately five percent of the world's population, accounts for approximately 19 percent of world oil consumption, or approximately 18.6 million barrels per day (U.S. EIA, 2020c). The transportation sector relies heavily on oil. In California, petroleum-based fuels currently provide approximately 95 percent of the State's transportation energy needs.

Natural Gas/Propane

The State produces approximately 12 percent of its natural gas, while obtaining 22 percent from Canada and 65 percent from the Rockies and the Southwest (California Energy Commission, 2012). PG&E is the largest publicly-traded utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. PG&E's natural gas (i.e.,

methane) delivery system includes 42,000 miles of natural gas distribution pipelines and 6,700 miles of transmission pipelines. PG&E's gas transmission system serves approximately 15 million energy customers in California. The system is operated under an inspection and monitoring program in real time on a 24-hour basis, with leak inspections, surveys, and patrols continuously taking place along the pipelines. Gas delivered by PG&E originates in gas fields in California, the Southwest, the Rocky Mountains, and Canada. Transmission pipelines send natural gas from the fields and storage facilities. The smaller distribution pipelines deliver gas to individual businesses or residences.

As of March 2022, California produced 11.4 billion cubic feet of natural gas per month (U.S. EIA, 2022). PG&E is the largest publicly-owned utility in California and provides natural gas for residential, industrial, and agency consumers within the San Joaquin County area. In 2018, natural gas consumption in San Joaquin County was 259 million therms (California Energy Commission, 2020).

3.7.2 REGULATORY SETTING

FEDERAL

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: National Ambient Air Quality Standards (NAAQS) for criteria air pollutants, hazardous air pollutant standards, State attainment plans, NAAQS motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

The EPA is responsible for administering the FCAA. The FCAA requires the EPA to set NAAQS for several problem air pollutants based on human health and welfare criteria. Two types of NAAQS were established: primary standards, which protect public health, and secondary standards, which protect the public welfare from non-health-related adverse effects such as visibility reduction.

In 2007, in the court case of *Massachusetts et al. vs. the USEPA et al*. (549 U.S. 497), the U.S. Supreme Court found that GHGs are air pollutants covered by the federal Clean Air Act (42 USC Sections 7401-7671q). The Supreme Court held that the Administrator of the United States Environmental Protection Agency must determine whether or not emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. In making these decisions, the Administrator is required to follow the language of Section 202(a) of the Clean Air Act. On December 7, 2009, the Administrator signed two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs (carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride) in the atmosphere threaten the public health and welfare of current and future generations.

- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not themselves impose any requirements on industry or other entities. However, this action was a prerequisite for implementing GHG emission standards for vehicles. In collaboration with the National Highway Traffic Safety Administration (NHTSA) and CARB, the USEPA developed emission standards for light-duty vehicles (2012-2025 model years), and heavy-duty vehicles (2014-2027 model years).

Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 sought to ensure that all vehicles sold in the U.S. would meet certain fuel economy goals. Through this Act, Congress established the first fuel economy standards for on-road motor vehicles in the United States. Pursuant to the Act, the National Highway Traffic and Safety Administration, which is part of the U.S. Department of Transportation (USDOT), is responsible for establishing additional vehicle standards and for revising existing standards.

Since 1990, the fuel economy standard for new passenger cars has been 27.5 mpg. Since 1996, the fuel economy standard for new light trucks (gross vehicle weight of 8,500 pounds or less) has been 20.7 mpg. Heavy-duty vehicles (i.e., vehicles and trucks over 8,500 pounds gross vehicle weight) are not currently subject to fuel economy standards. Compliance with federal fuel economy standards is determined on the basis of each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the U.S. The Corporate Average Fuel Economy (CAFE) program, which is administered by the EPA, was created to determine vehicle manufacturers' compliance with the fuel economy standards. The EPA calculates a CAFE value for each manufacturer based on city and highway fuel economy test results and vehicle sales. Based on the information generated under the CAFE program, the USDOT is authorized to assess penalties for noncompliance.

Federal Climate Change Policy

According to the U.S. EPA, "the United States government has established a comprehensive policy to address climate change" that includes slowing the growth of emissions; strengthening science, technology, and institutions; and enhancing international cooperation. To implement this policy, "the Federal government is using voluntary and incentive-based programs to reduce emissions and has established programs to promote climate technology and science." The U.S. EPA administers multiple programs that encourage voluntary GHG reductions, including "ENERGY STAR", "Climate Leaders", and Methane Voluntary Programs.

The following are actions taken at the federal level relating to GHG emissions.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the U.S. EPA and the Department

of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program applies to passenger cars, light duty trucks, and medium duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the National Highway Safety Administration issued final rules on a second phase joint rulemaking, establishing national standards for light duty vehicles for model years 2017 through 2025 in August 2012.[1] The new standards for model years 2017 through 2025 apply to passenger cars, light duty trucks, and medium duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO2 in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The U.S. EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies adopted engine and vehicle standards that began in the 2014 model year and achieve up to a 20 percent reduction in CO2 emissions and fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies adopted separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10 percent reduction for gasoline vehicles, and a 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Finally, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

Mandatory Reporting of Greenhouse Gases. The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the U.S. EPA issued the Final Mandatory Reporting of Greenhouse Gases Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the United States and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions are required to submit annual reports to the U.S. EPA.

Cap and Trade. Cap and trade refers to a policy tool where emissions are limited to a certain amount and can be traded, or provides flexibility on how the emitter can comply. There is no federal GHG

[1] United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. Website: http://www.epa.gov/otaq/climate/documents/420f12051.pdf. Accessed January 21, 2021.

cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap and trade.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15 percent below 2005 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Quebec. Currently only California and Quebec are participating in the cap-and-trade program.

STATE

The California Legislature has enacted a series of statutes in recent years addressing the need to reduce GHG emissions across the State. These statutes can be categorized into four broad categories: (i) statutes setting numerical statewide targets for GHG reductions, and authorizing CARB to enact regulations to achieve such targets; (ii) statutes setting separate targets for increasing the use of renewable energy for the generation of electricity throughout the State; (iii) statutes addressing the carbon intensity of vehicle fuels, which prompted the adoption of regulations by CARB; and (iv) statutes intended to facilitate land use planning consistent with statewide climate objectives. The discussion below will address each of these key sets of statutes, as well as CARB "Scoping Plans" intended to achieve GHG reductions under the first set of statutes and recent building code requirements intended to reduce energy consumption.

Statutes Setting Statewide GHG Reduction Targets

ASSEMBLY BILL 32 (GLOBAL WARMING SOLUTIONS ACT)

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006 (Health & Safety Code Section 38500 et seq.), also known as Assembly Bill (AB) 32 (Stats. 2006, ch. 488). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and a cap on statewide GHG emissions. AB 32 required that statewide GHG emissions be reduced to 1990 levels by 2020. This reduction was accomplished through an enforceable statewide cap on GHG emissions that was phased in starting in 2012. To effectively implement the cap, AB 32 directed the California Air Resources Board (CARB) to develop and implement regulations to reduce statewide GHG emissions from stationary sources.

SENATE BILL 32

SB 32 (Stats. 2016, ch. 249) added Section 38566 to the Health and Safety Code. It provides that "in adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by [Division 25.5 of the Health and Safety Code], [CARB] shall ensure that statewide greenhouse gas emissions are reduced to at least 40 percent below the statewide greenhouse gas emissions limit no later than December 31, 2030." In other words, SB 32 requires California, by 2030, to reduce its statewide GHG emissions so that they are 40 percent below those that occurred in 1990.

EXECUTIVE ORDERS S-3-05, B-30-15, AND B-55-18

The 2020 statewide GHG reduction target in AB 32 was consistent with the second of three statewide emissions reduction targets set forth in former Governor Arnold Schwarzenegger's 2005 Executive Order known as S-3-05, which is expressly mentioned in AB 32. (See Health & Safety Code Section 38501, subd. (i).) That Executive Branch document included the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; by 2050, reduce GHG emissions to 80 percent below 1990 levels. To meet the targets, the Governor directed several State agencies to cooperate in the development of a climate action plan. The Secretary of Cal-EPA leads the Climate Action Team, whose goal is to implement global warming emission reduction programs identified in the Climate Action Plan and to report on the progress made toward meeting the emission reduction targets established in the executive order.

In 2015, Governor Brown issued Executive Order, B-30-15, which created a "new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050." SB 32 codified this target.

In 2018, the Governor issued Executive Order B-55-18, which established a statewide goal to "achieve carbon neutrality as soon as possible, and no later than 2045, and maintain and achieve negative emissions thereafter." The order directs the CARB to work with other State agencies to identify and recommend measures to achieve those goals. As discussed below, the 2022 Scoping Plan lays out a path towards achieving carbon neutrality by 2045.

SB 350

Senate Bill 350 (SB 350) (Stats. 2015, ch. 547) added to the Public Utilities Code language that essentially puts into statute the 2050 GHG reduction target already identified in Executive Order S-3-05, albeit in the limited context of new state policies (i) increasing the overall share of electricity that must be produced through renewable energy sources and (ii) directing certain State agencies to begin planning for the widespread electrification of the California vehicle fleet. Section 740.12(a)(1)(D) of the Public Utilities Code now states that "the Legislature finds and declares that… reducing emissions of GHGs to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050 will require widespread transportation electrification." Furthermore, Section 740.12(b) now states that the California Public Utilities Commission (PUC), in consultation with CARB and the California Energy Commission (CEC), must "direct electrical corporations to file applications for programs and investments to accelerate widespread transportation electrification to reduce dependence on petroleum, meet air quality standards, … and reduce emissions of greenhouse gases to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050."

AB 1279

In September 2022, the Legislature enacted AB 1279 (Stats. 2022, ch. 337). The bill declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045,

and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, statewide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

Statutes Setting Target for the Use of Renewable Energy for the Generation of Electricity

CALIFORNIA RENEWABLES PORTFOLIO STANDARD

Senate Bill X1-2 (Stats. 2011, 1st Ex. Sess., ch. 1) set more aggressive statutory targets for renewable electricity, culminating in the requirement that 33 percent of the State's electricity come from renewables by 2020. This legislation applies to all electricity retailers in the State, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. All of these entities were required to meet renewable energy goals of 20 percent of retail sales from renewables by the end of 2013, 25 percent by the end of 2016, and 33 percent by the end of 2020. (See Pub. Utility Code, Section 399.11 et seq. [subsequently amended].) SB 350, discussed below, increases the Renewable Portfolio Standard to require 50 percent of electricity generated to be from renewables by 2030. (Pub. Utility Code, Section 399.11, subd (a); see also Section 399.30, subd. (c)(2).) In 2018, Senate Bill 100 (Stats. 2018, ch. 312) revised the above-described deadlines and targets so that the State will have to achieve a 50% renewable resources target by December 31, 2026 (instead of by 2030) and achieve a 60% target by December 31, 2030. The legislation also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all State agencies by December 31, 2045.

Statutes and CARB Regulations Addressing the Carbon Intensity of Petroleum-based Transportation Fuels

ASSEMBLY BILL 1493, PAVLEY CLEAN CARS STANDARDS

In 2002, the Legislature enacted Assembly Bill 1493 ("Pavley Bill") (Stats. 2002, ch. 200), which directed CARB to develop and adopt regulations that achieve the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty trucks beginning with model year 2009. (See Health and Safety Code Section 43018.5.) In September 2004, pursuant to this directive, CARB approved regulations to reduce GHG emissions from new motor vehicles beginning with the 2009 model year. These regulations created what are commonly known as the "Pavley standards." In September 2009, CARB adopted amendments to the Pavley standards to reduce GHG emissions from new motor vehicles through the 2016 model year. These regulations created what are commonly known as the "Pavley II standards." (See California Code of Regulations, Title 13, Sections 1900, 1961, and 1961.1 et seq.)

In 2012, CARB adopted an Advanced Clean Cars (ACC) program aimed at reducing both smog-causing pollutants and GHG emissions for vehicles model years 2017-2025. This historic program, developed in coordination with the USEPA and NHTSA, combined the control of smog-causing (criteria) pollutants and GHG emissions into a single coordinated set of requirements for model years 2015 through 2025. The regulations focus on substantially increasing the number of plug-in hybrid cars and zero-emission vehicles in the vehicle fleet and on making fuels such as electricity and hydrogen

readily available for these vehicle technologies. The components of the ACC program are the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles in the 2018 through 2025 model years. (See California Code of Regulations, Title 13, Sections 1900, 1961, 1961.1, 1961.2, 1961.3, 1965, 1968.2, 1968.5, 1976, 1978, 2037, 2038, 2062, 2112, 2139, 2140, 2145, 2147, 2235, and 2317 et seq.)

It is expected that the Pavley regulations will reduce GHG emissions from California passenger vehicles by about 34 percent below 2016 levels by 2025, all while improving fuel efficiency and reducing motorists' costs.

Statute Intended to Facilitate Land Use Planning Consistent with Statewide Climate Objectives

CALIFORNIA SENATE BILL 375 (SUSTAINABLE COMMUNITIES STRATEGY)

This 2008 legislation built on AB 32 by setting forth a mechanism for coordinating land use and transportation on a regional level for the purpose of reducing GHGs. The focus is to reduce miles traveled by passenger vehicles and light trucks. CARB is required to set GHG reduction targets for each metropolitan region for 2020 and 2035.[2] Each of California's metropolitan planning organizations then prepares a sustainable communities strategy that demonstrates how the region will meet its GHG reduction target through integrated land use, housing, and transportation planning. Once adopted by the metropolitan planning organizations, the sustainable communities strategy is to be incorporated into that region's federally enforceable regional transportation plan. If a metropolitan planning organization is unable to meet the targets through the sustainable communities strategy, then an alternative planning strategy must be developed that demonstrates how targets could be achieved, even if meeting the targets is deemed to be infeasible.

Climate Change Scoping Plans

2017 SB 32 SCOPING PLAN

With the passage of SB 32, the Legislature also passed companion legislation AB 197, which provided additional direction for developing the scoping plan. In response, CARB adopted an updated Scoping Plan in December 2017. The document reflects the 2030 target of reducing statewide GHG emissions by 40 percent below 1990 levels codified by SB 32. The GHG reduction strategies in the plan that CARB will implement to meet the target include:

- SB 350 - achieve 50 percent Renewables Portfolio Standard (RPS) by 2030 and doubling of energy efficiency savings by 2030;
- Low Carbon Fuel Standard - increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020);

[2] The San Joaquin COG region was assigned reduction targets of 12% by 2020 and 16% by 2035.

- Mobile Source Strategy (Cleaner Technology and Fuels Scenario) - maintaining existing GHG standards for light- and heavy-duty vehicles, put 4.2 million zero-emission vehicles on the roads, and increase zero-emission buses, delivery and other trucks.
- Sustainable Freight Action Plan - improve freight system efficiency, maximize use of near-zero emission vehicles and equipment powered by renewable energy, and deploy over 100,000 zero-emission trucks and equipment by 2030;
- Short-Lived Climate Pollutant Reduction Strategy - reduce emissions of methane and hydrofluorocarbons 40 percent below 2013 levels by 2030 and reduce emissions of black carbon 50 percent below 2013 levels by 2030;
- SB 375 Sustainable Communities Strategies - increased stringency of 2035 targets;
- Post-2020 Cap-and-Trade Program - declining caps, continued linkage with Québec, and linkage to Ontario, Canada;
- 20 percent reduction in GHG emissions from the refinery sector; and
- By 2018, develop an Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

2022 SCOPING PLAN UPDATE

The Draft 2022 Scoping Plan Update was released on May 10, 2022, but has yet to be adopted. The 2022 Scoping Plan Update assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan Update focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

SB 605 AND SB 1383

SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the state, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of short-lived climate pollutants (40% below 2013 levels by 2030 for methane and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, CARB adopted its Short-Lived Climate Pollutant Reduction Strategy (Reduction Strategy) in March 2017. The Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases.

ASSEMBLY BILL 1757

AB 1757 (September 2022) requires the CNRA to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

Building Code Requirements Intended to Reduce GHG Emissions

CALIFORNIA ENERGY CODE

The California Energy Code (California Code of Regulations, Title 24, Part 6), which is incorporated into the Building Energy Efficiency Standards, was first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Although these standards were not originally intended to reduce GHG emissions, increased energy efficiency results in decreased GHG emissions because energy efficient buildings require less electricity and thus less consumption of fossil fuels, which emit GHGs. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. The current 2022 Building Energy Efficiency Standards, commonly referred to as the "Title 24" standards, include changes from the previous standards that were adopted, to do the following:

- Provide California with an adequate, reasonably priced, and environmentally sound supply of energy.
- Respond to Assembly Bill 32, the Global Warming Solutions Act of 2006, which mandates that California must reduce its GHG emissions to 1990 levels by 2020.
- Pursue California energy policy that energy efficiency is the resource of first choice for meeting California's energy needs.
- Act on the California Energy Commission's Integrated Energy Policy Report, which finds that standards are the most cost-effective means to achieve energy efficiency, states an expectation that the Building Energy Efficiency Standards will continue to be upgraded over time to reduce electricity and peak demand, and recognizes the role of the Building Energy Efficiency Standards in reducing energy related to meeting California's water needs and in reducing GHG emissions.
- Meet the West Coast Governors' Global Warming Initiative commitment to include aggressive energy efficiency measures into updates of State building codes.
- Meet Executive Order S-20-04, the Green Building Initiative, to improve the energy efficiency of non-residential buildings through aggressive standards.

The most recent Title 24 standards are the 2022 Title 24 standards. Buildings permitted on or after January 1, 2023, must comply with the 2022 Standards. The California Energy Commission updates the standards every three years. The CEC estimates that the 2022 Title 24 standards will reduce 10 million metric tons of GHG over 30 years. When compared to the 2019 Title 24 standards, the 2022 update focuses on: encouraging electric heat pump technology and use; establishing electric-ready requirements when natural gas is installed; expanding solar photovoltaic (PV) system and battery storage standards; and strengthening ventilation standards to improve indoor air quality.

CALIFORNIA GREEN BUILDING STANDARDS CODE

The purpose of the California Green Building Standards Code (California Code of Regulations Title 24, Part 11) is to improve public health and safety and to promote the general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the

following categories: 1) planning and design; 2) energy efficiency; 3) water efficiency and conservation; 4) material conservation and resource efficiency; and 5) environmental quality. The California Green Building Standards, which became effective on January 1, 2011, instituted mandatory minimum environmental performance standards for all ground-up new construction of commercial, low-rise residential uses, and State-owned buildings, as well as schools and hospitals. The mandatory standards require the following:

- 20 percent mandatory reduction in indoor water use relative to baseline levels;
- 50 percent construction/demolition waste must be diverted from landfills;
- Mandatory inspections of energy systems to ensure optimal working efficiency; and
- Low-pollutant emitting exterior and interior finish materials such as paints, carpets, vinyl flooring, and particle boards.

The voluntary standards require the following:

- **Tier I:** 15 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 65 percent reduction in construction waste, 10 percent recycled content, 20 percent permeable paving, 20 percent cement reduction, and cool/solar reflective roof.
- **Tier II:** 30 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 75 percent reduction in construction waste, 15 percent recycled content, 30 percent permeable paving, 30 percent cement reduction, and cool/solar reflective roof.

TITLE 20

CCR Title 20 requires manufacturers of appliances to meet state and federal standards for energy and water efficiency. The CEC certifies an appliance based on a manufacturer's demonstration that the appliance meets the standards. New appliances regulated under Title 20 include refrigerators, refrigerator-freezers, and freezers; room air conditioners and room air-conditioning heat pumps; central air conditioners; spot air conditioners; vented gas space heaters; gas pool heaters; plumbing fittings and plumbing fixtures; fluorescent lamp ballasts; lamps; emergency lighting; traffic signal modules; dishwaters; clothes washers and dryers; cooking products; electric motors; low-voltage dry-type distribution transformers; power supplies; televisions and consumer audio and video equipment; and battery charger systems. Title 20 presents protocols for testing each type of appliance covered under the regulations, and appliances must meet the standards for energy performance, energy design, water performance, and water design. Title 20 contains three types of standards for appliances: federal and state standards for federally regulated appliances, state standards for federally regulated appliances, and state standards for non-federally regulated appliances.

SENATE BILL 1

SB 1 (Murray) (August 2006) established a $3 billion rebate program to support the goal of the state to install rooftop solar energy systems with a generation capacity of 3,000 megawatts through 2016.

SB 1 added sections to the Public Resources Code, including Chapter 8.8 (California Solar Initiative), that require building projects applying for ratepayer-funded incentives for photovoltaic systems to meet minimum energy efficiency levels and performance requirements. Section 25780 established that it is a goal of the state to establish a self-sufficient solar industry. The goals included establishing solar energy systems as a viable mainstream option for homes and businesses within 10 years of adoption and placing solar energy systems on 50% of new homes within 13 years of adoption. SB 1, also termed "Go Solar California," was previously titled "Million Solar Roofs."

SOLID WASTE

AB 939, AB 341, and AB 1826. In 1989, AB 939, known as the Integrated Waste Management Act (PRC Sections 40000 et seq.), was passed because of the increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25% by 1995 and 50% by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that it is the policy goal of the state that not less than 75% of solid waste generated be source-reduced, recycled, or composted by 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery (CalRecycle) to develop strategies to achieve the state's policy goal. CalRecycle conducted several general stakeholder workshops and several focused workshops and in August 2015, published a discussion document titled AB 341 Report to the Legislature, which identified five priority strategies that CalRecycle believed would assist the state in reaching the 75% goal by 2020, legislative and regulatory recommendations, and an evaluation of program effectiveness (CalRecycle, 2012).

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. The minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

REGIONAL

PG&E Integrated Resource Plan PG&E adopted the 2020 Integrated Resource Plan (IRP) on September 1, 2020, to provide guidance for serving the electricity and natural gas needs of residents and businesses within its service area while fulfilling regulatory requirements. The IRP contains the following objectives that are relevant to the Project:

- Clean Energy: In 2021, PG&E delivered nearly 50 percent of its electricity from RPS-eligible renewable resources, such as solar, wind, geothermal, biomass, and small hydropower. In addition, PG&E's GHG-free energy production, which encompasses renewable resources, large hydropower, and nuclear, satisfied all of PG&E's bundled retail sales in 2021.

- Reliability: PG&E's IRP analysis includes PG&E's contribution to system and local reliability, in compliance with the CPUC's resource adequacy requirements, especially as California transitions toward higher shares of GHG-free generation resources.

- Affordability: PG&E's IRP analysis selects resources to meet the state's clean energy and reliability goals and provides a system average rate forecast in compliance with the CPUC' s requirements for investor-owned utilities.

LOCAL

San Joaquin Air Pollution Control District

CLIMATE CHANGE ACTION PLAN

On August 21, 2008, the Valley Air District Governing Board approved a proposal called the Climate Change Action Plan (CCAP). The CCAP began with a public process bringing together stakeholders, land use agencies, environmental groups, and business groups to conduct public workshops to develop comprehensive policies for CEQA Guidelines, a carbon exchange bank, and voluntary GHG emissions mitigation agreements for the Governing Board's consideration. The CCAP contains the following goals and actions:

- Develop GHG significance thresholds to address CEQA projects with GHG emission increases.
- Develop the San Joaquin Valley Carbon Exchange for banking and trading GHG reductions.
- Authorize use of the SJVAPCD [Valley Air District's] existing inventory reporting system to allow use for GHG reporting required by AB 32 regulations.
- Develop and administer GHG reduction agreements to mitigate proposed emission increases from new projects.
- Support climate protection measures that reduce greenhouse gas emissions as well as toxic and criteria pollutants. Oppose measures that result in a significant increase in toxic or criteria pollutant emissions in already impacted areas.

On December 17, 2009, the Valley Air District Governing Board adopted "Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA," and the policy "District Policy—Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency." The Valley Air District concluded that the existing science is inadequate to support quantification of the impacts that project-specific GHG emissions have on global climatic change. The Valley Air District found the effects of project-specific emissions to be cumulative, and without mitigation, their incremental contribution to global climatic change could be considered cumulatively considerable. The Valley Air District found that this cumulative impact

is best addressed by requiring all projects to reduce their GHG emissions, whether through project design elements or mitigation.

The Valley Air District's approach is intended to streamline the process of determining whether project-specific GHG emissions would have a significant effect. Projects exempt from the requirements of CEQA, and projects complying with an approved plan or mitigation program would be determined to have a less than significant cumulative impact. Such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources and must have a certified final CEQA document.

For non-exempt projects, those projects for which there is no applicable approved plan or program, or those projects not complying with an approved plan or program, the lead agency must evaluate the project against performance-based standards and would require the adoption of design elements, known as a Best Performance Standard, to reduce GHG emissions. The Best Performance Standards (BPS) have not yet fully been established, though they must be designed to effect a 29 percent reduction when compared with the BAU projections identified in the ARB's AB 32 Scoping Plan.

BAU represents the emissions that would occur in 2020 if the average baseline emissions during the 2002–2004 period were grown to 2020 levels, without control. These standards thus would carry with them pre-quantified emissions reductions, eliminating the need for project-specific quantification. Therefore, projects incorporating BPS would not require specific quantification of GHG emissions, and automatically would be determined to have a less than significant cumulative impact for GHG emissions.

For stationary source permitting projects, BPS means, "The most stringent of the identified alternatives for control of GHG emissions, including type of equipment, design of equipment and operational and maintenance practices, which are achieved-in-practice for the identified service, operation, or emissions unit class." The Valley Air District has identified BPS for the following sources: boilers; dryers and dehydrators; oil and gas extraction, storage, transportation, and refining operations; cogeneration; gasoline dispensing facilities; volatile organic compound control technology; and steam generators.

For development projects, BPS means, "Any combination of identified GHG emission reduction measures, including project design elements and land use decisions that reduce project-specific GHG emission reductions by at least 29 percent compared with business as usual."

Projects not incorporating BPS would require quantification of GHG emissions and demonstration that BAU GHG emissions have been reduced or mitigated by 29 percent. As stated earlier, the ARB's adjusted inventory reduced the amount required by the State to achieve 1990 emission levels from 29 percent to 21.7 percent to account for slower growth experienced since the 2008 recession. According to Valley Air District guidance, quantification of GHG emissions would be required for all projects for which the lead agency has determined that an EIR is required, regardless of whether the project incorporates BPS.

Nevertheless, it should be noted that, in light of the Newhall Ranch case, the Supreme Court concluded that a BAU analysis requires substantial evidence to demonstrate what the required percentage reduction from BAU would be for an individual project. The court expressed skepticism that a percentage reduction goal applicable to the State as a whole would apply without change to an individual development project, regardless of its size or location. Therefore, the BAU analysis as identified by SJVAPCD is not employed for this EIR.

SAN JOAQUIN VALLEY CARBON EXCHANGE

The Valley Air District initiated work on the San Joaquin Valley Carbon Exchange in November 2008. The purpose of the carbon exchange is to quantify, verify, and track voluntary GHG emissions reductions generated within the San Joaquin Valley. However, the Valley Air District has pursued an alternative strategy that incorporates the GHG emissions into its existing Rule 2301—Emission Reduction Credit Offset Banking that formerly only addressed criteria pollutants. The Valley Air District is also participating with the California Air Pollution Control Officers Association (CAPCOA), of which it is a member, in the CAPCOA Greenhouse Gas Reduction Exchange (GHG Rx). The GHG Rx is operated cooperatively by air districts that have elected to participate. Participating districts have signed a Memorandum of Understanding (MOU) with CAPCOA and agree to post only those credits that meet the Rx standards for quality. The objective is to provide a secure, low-cost, high-quality, GHG exchange for credits created in California. The GHG Rx is intended to help fulfill compliance obligations, or mitigation needs of local projects subject to environmental review, reducing the uncertainty of using credits generated in distant locations.

RULE 2301

While the CCAP indicated that the GHG emission reduction program would be called the San Joaquin Valley Carbon Exchange, the Valley Air District incorporated a method to register voluntary GHG emission reductions into its existing Rule 2301-Emission Reduction Credit Banking through amendments of the rule. Amendments to the rule were adopted on January 19, 2012. The purposes of the amendments to the rule include the following:

- Provide an administrative mechanism for sources to bank voluntary GHG emission reductions for later use.
- Provide an administrative mechanism for sources to transfer banked GHG emission reductions to others for any use.
- Define eligibility standards, quantitative procedures, and administrative practices to ensure that banked GHG emission reductions are real, permanent, quantifiable, surplus, and enforceable.

City of Lathrop General Plan

The City of Lathrop General Plan includes several goals, policies, and implementation actions that are relevant to air quality. General Plan goals, policies, and implementation actions applicable to the Project are identified below:

GOALS – LAND USE ELEMENT

- LU-1: Accommodate a mix of land uses that meet the needs of residents, businesses, and visitors with places to live, work, shop, be entertained and culturally engaged.
- LU-2: Promote objectives and development in special planning areas consistent with adopted specific plans, overlay districts, Master Plans and density bonus provisions.
- LU-3: Participate in coordinated local and regional land use planning activities.
- LU-4: Coordinate and integrate land use planning and transportation objectives.
- LU-5: Ensure that new development is compatible with existing development**.**

GOALS – CIRCULATION ELEMENT

- CIR-1: Develop and maintain a roadway system that accommodates all users.
- CIR-2: Create a system of pedestrian, bicycle, and transit facilities that enables non-automotive accessibility and increases the health and livability of the community.
- CIR-4: Plan for the future of transportation to ensure accessibility for all, reduce the environmental impacts of Transportation, and improve the quality of life.

GOAL – RECREATION AND RESOURCES ELEMENT

- RR-6: Provide the community with optimal air quality.

POLICIES – LAND USE ELEMENT

- LU-1.1: Support a full spectrum of conveniently located residential, commercial, industrial, public, and quasi-public uses that support business development, regional transportation objectives and the livability of residential neighborhoods.
- LU-1.3: Maintain a supply of developable lands sufficient to meet desired levels of housing, jobs, economic, educational, and recreational needs of the city over the planning horizon.
- LU-1.4: Continue to support the development of a variety of housing types and densities that meet the needs of individuals and families, and offers residents of all income levels, age groups and special needs sufficient housing opportunities and choices. (Additional policies specifically related to Housing are included in the General Plan's Housing Element)
- LU-1.8: Recognize that the General Plan and Land Use Map may be amended in accordance with State law in order to ensure that there is an adequate supply of commercial, industrial, public facility, parks, residential, and other desired land uses to serve the City's needs.
- LU-3.1: Support regional efforts that promote higher densities and intensities near major transit and travel facilities, and reduce regional vehicle miles traveled by supporting active modes of transportation including walking, biking, and public transit.
- LU-3.2: Utilize planning tools and objectives that promote transit-oriented and mixed-use development objectives near future ACE and Valley Link Transit Facilities. Land use plans for these areas should complement transit facilities to accommodate transit oriented development (TOD) developments and/or park-and-ride facilities near ACE stations and future Valley Link station.

- LU-3.3: Integrate climate change and adaptation planning principles into future updates of the Zoning Code, and other related long-range utilities and facilities planning documents. (See the Safety Element for additional policies related to climate change and resiliency planning).
- LU-3.4: Promote logical City boundaries and work with surrounding jurisdictions to encourage complementary uses. Specifically, work with the City of Manteca and San Joaquin County to ensure development of complementary and compatible uses adjacent to Lathrop.
- LU-4.2: Emphasize efforts to reduce regional vehicle miles traveled (VMT) by supporting land use patterns and site designs that promote active modes of transportation, and public transit.
- LU-4.3: Encourage the development of new industrial and business park which facilitate efficient circulation patterns that reduce truck traffic near residential uses.
- LU-4.4: As the city grows, encourage and support the development of a transit system with regular service connecting destinations within the city, to ACE and Valley Link stations, and to adjacent jurisdictions.
- LU-5.1: Require new development to be compatible and complementary to existing development. Where appropriate and feasible, promote connections between neighborhoods and services and facilities.
- LU-5.2: Prohibit the establishment or encroachment of incompatible uses into industrial-designated lands. Examples include, but are not limited to, new residential uses in areas designated for industrial development, which may be subject to existing and future nuisance impacts associated with industrial operations and associated activities.
- LU-5.3: Require that new residential development be designed to protect residents from potential conflicts with adjacent land uses, and other features including rail corridors, and high-volume roadways.
- LU-5.4: In industrial areas located within 1,000 feet of existing and planned sensitive receptors, promote industrial uses that are environmentally sustainable with limited potential to create nuisances such as noise and odors.
- LU-5.5: Ensure that industrial development projects, including warehouse, distribution, logistics, and fulfillment projects, mitigate adverse impacts (including health risks and nuisances) to nearby residential land uses and other existing and planned sensitive receptors.

POLICIES – CIRCULATION ELEMENT

- CIR-1.2: Complete Streets. Consider all modes of travel in planning, design, and construction of all transportation projects to create safer, more livable, and more inviting environments for pedestrians, bicyclists, motorists and public transit users of all ages and capabilities.
- CIR-2.1: Bicycle and Pedestrian Networks. Establish a network of identified bicycle and pedestrian routes connecting residential areas with schools, recreation, shopping, and employment areas within the City.
- CIR-2.3: Safe Routes to School. Consider walking and bicycling school access as a priority over vehicular movements when any such conflicts occur.

- CIR-2.4: Transit Access. Provide safer, more convenient access to transit service including rail, bus, and paratransit.
- CIR-2.5: Amenities. To support bicycle, pedestrian, and transit usage, provide amenities including pedestrian-scale lighting, bicycle parking, shade trees and landscaping, and bus shelters and benches.
- CIR-4.1: Land Use Supporting Reduced VMT. Support land use with increased land use densities and mixed uses, consistent with the Land Use Element, to reduce vehicle miles traveled and promote the use of walking, biking, and transit.
- CIR-4.2: Demand Management. Encourage employers to provide programs for carpooling/transit/biking/walking, transit ridership subsidies, bicycle facilities, alternative work schedules, ridesharing, telecommuting, working at home, employee education, and preferential parking for carpools/vanpools.
- CIR-4.3: New Technologies. Monitor deployment of new transportation technologies and services and develop policies that implement best practices to ensure these technologies and services benefit the public and the multimodal transportation system.
- CIR-4.4: Electric Vehicle Charging. Support the creation of electric vehicle charging stations at multifamily residential, commercial, government, and other employment and community destinations.

POLICIES – RECREATION AND RESOURCES ELEMENT

- RR-6.1: Regional Standards. Coordinate planning efforts with the San Joaquin Valley Air Pollution Control District (SJVAPCD), San Joaquin Council of Governments, and the California Air Resource Board to meet local and regional air quality standards and ensure attainment of established goals.
- RR-6.2: Sensitive Receptors. Minimize the community's exposure to toxic and harmful air emissions and odors by requiring an adequate buffer or distance between residential and other sensitive receptors and industrial-type uses that typically generate air pollutants, toxic air contaminants, and/or obnoxious fumes or odors.
- RR-6.3: Construction Activities. Require new construction to minimize fugitive dust and construction vehicle emissions.
- RR-6.4: Development. Encourage the development of mixed-use residential opportunities and live-work environments within the City to lessen the impacts of traffic congestion on local air quality.
- RR-6.5: Appliances and Equipment. Require appliances and equipment, including wood-burning devices, in development projects to meet current standards for controlling air pollution, including particulate matter and toxic air contaminants.
- RR-6.6: Combustible Materials. Cooperate with the Air District to ensure that burning of any combustible material within the City is consistent with Air District regulations to minimize particulate air pollution.
- RR-6.7: Mitigation. Require the implementation of relevant mitigation measures for all future development upon identification of potential air quality impacts.

- RR-6.8: Local Reduction Targets. The City of Lathrop establishes the following per capita GHG reduction targets, in order to meet the requirements established by the state under AB 32 and SB 32, consistent with the CARB's 2017 Scoping Plan:
    - 3.99 MT CO2e per capita by 2030
    - 2.66 MT CO2e per capita by 2040; and
    - 1.33 MT CO2e per capita by 2050.
- RR-6.9: GHG Reduction. Consider, and implement as feasible, new policies and programs that will help to provide energy efficient alternatives to fossil fuel use and reduce consumption in order to reduce greenhouse gas emissions.
- RR-6.10 : Public Engagement. Promote regional air quality programs to inform the public on regional air quality concerns and encourage the engagement of all Lathrop residents in future planning decisions related to air quality.

IMPLEMENTATION ACTIONS – LAND USE ELEMENT

- LU-3.b: Work with adjacent jurisdictions to facilitate increased compatibility and access across barriers to travel such as discontinuous streets, bike lanes, sidewalks, and paths.
- LU-3.c: Work with developers, reclamation districts and utility providers to create or expand linear parks, trails, and publicly-accessible greenways along levees, drainage and utility rights-of-way that provide opportunities for greenway connections and passive recreational opportunities.
- LU-5b: Through the development review process, analyze land use compatibility and require adequate buffers and/or architectural enhancements to protect sensitive receptors from intrusion of development activities that may cause unwanted nuisances and health risks.
- LU-5c: When industrial projects, including warehouse projects, fulfillment centers, and other projects that may generate high volumes of truck trips and/or air quality emissions are proposed within 1,000 feet of existing or planned residential uses or other sensitive receptors, the City shall require the preparation of a Health Risk Assessment (HRA) that meets the standards established by the Office of Environmental Health Hazard Assessment (OEHHA), and the San Joaquin Valley Air Pollution Control District (SJVAPCD). Projects shall not be approved until it can be demonstrated that the project would not result in an exceedance of the established thresholds of significance for public health risks at nearby sensitive receptors.
- LU-5d: When industrial projects, including warehouse projects, fulfillment centers, and other projects that may generate high volumes of truck trips and/or air quality emissions are proposed within 1,000 feet of existing or planned residential uses or other sensitive receptors, the City shall require the implementation of best management practices (BMPs) to reduce pollution exposure to sensitive receptors, particularly diesel particulate matter (DPM). The appropriate BMPs shall be established on a case-by-case basis, and should consider the following tools, methods, and approaches:
    - Creating physical, structural, and/or vegetative buffers that adequately prevent or substantially reduce pollutant dispersal between warehouses and any areas where sensitive receptors are likely to be present, such as homes, schools, daycare centers, hospitals, community centers, and parks.

- Providing adequate areas for on-site parking, on-site queuing, and truck check-in that prevent trucks and other vehicles from parking or idling on public streets.
- Placing facility entry and exit points from the public street away from sensitive receptors, e.g., placing these points on the north side of the facility if sensitive receptors are adjacent to the south side of the facility. Exceptions can be made for emergency vehicle access (EVA) points.
- Locating warehouse dock doors and other onsite areas with significant truck traffic and noise away from sensitive receptors.
- Screening dock doors and onsite areas with significant truck traffic and noise with physical, structural, and/or vegetative barriers that adequately prevent or substantially reduce pollutant dispersal from the facility towards sensitive receptors.
- Posting signs clearly showing the designated entry and exit points from the public street for trucks and service vehicles.
- Posting signs indicating that all parking and maintenance of trucks must be conducted within designated on-site areas and not within the surrounding community or public streets.

- LU-5e: Update the Lathrop Municipal Code to include Good Neighbor Guidelines for Warehouse Distribution Facilities. The new Good Neighbor Guidelines should include:
  A. A definition of the type and size of facility that is subject to the Guidelines;
  B. Standards to minimize exposure to diesel emissions to sensitive receptors that are situated in close proximity to the proposed facility;
  C. Standards and practices that eliminate diesel trucks from unnecessarily traversing through residential neighborhoods;
  D. Standards and practices that eliminate trucks from using residential areas and repairing vehicles on the streets;
  E. Strategies to reduce and/or eliminate diesel idling within the facility's site;

IMPLEMENTATION ACTIONS – CIRCULATION ELEMENT

- CIR-1a: Review and revise roadway standards to establish complete streets standards addressing the following factors as applicable: number of travel lanes, lane width, medians, drainage control, shoulder width, parking lanes, bike lanes, fire and emergency response standards, curb and gutter design, landscaped strips, and sidewalk width.
- CIR-1b: Require development projects to arrange streets in an interconnected pattern, so that pedestrians, bicyclists, and drivers are not forced onto arterial streets for inter- or intra-neighborhood travel. This approach will also increase the safety and efficiency of movement of emergency responders and reduce vehicle miles traveled within the community.
- CIR-1c: Apply signals, roundabouts, traffic circles and other traffic management techniques appropriately at residential and collector street intersections with collector and arterial streets in order to allow bicyclists and pedestrians to travel more conveniently and more safely from one neighborhood to another.

- CIR-1d: Use traffic calming tools to assist in implementing complete street principles; possible tools include roundabouts, raised intersections, curb extensions, reduced roadway width, and high visibility crosswalks.
- CIR-2a: Create an active transportation plan supporting the development of bicycle and pedestrian networks across the City and funding applications for bicycle and pedestrian improvements.
- CIR-2b: Add planned bicycle and pedestrian facilities in conjunction with road rehabilitation, reconstruction, or re-striping projects whenever feasible.
- CIR-2c: Enhance sidewalks to create a high-quality pedestrian environment, including wider sidewalks and improved pedestrian crossings, landscaping, buffers between sidewalks and vehicle travel lanes, enhanced pedestrian lighting, wayfinding signage, shade trees, and canopies, increased availability of benches, and other features.
- CIR-2d: Improve bicycle facilities to include attractive and secure bicycle parking, bicycle lanes, bike paths, and wayfinding signage along appropriate roadways.
- CIR-2e: Encourage and support the enhancement of transit stops with high quality, well-maintained shelters, and provision of wayfinding signage and transit timetables.
- CIR-2f: Provide access for bicycles and pedestrians at the ends of cul-de-sacs and through walls and berms, where right-of-way is available, to provide convenient access within and between neighborhoods and to encourage walking and bicycling to neighborhood destinations.
- CIR-2g: Ensure that development and infrastructure projects are designed to provide pedestrian and bicycle access and leave no gaps in the bicycle and pedestrian networks.
- CIR-2h: Require new development to provide bicycle parking and shower and locker facilities at commercial, business/professional and light industrial uses in accordance with the California Green Building Standards Code. Encourage existing uses to provide such facilities.
- CIR-2i: Require new multifamily developments to provide bicycle parking facilities in accordance with the California Green Building Standards Code. Encourage existing multifamily developments to provide such facilities.
- CIR-2j: Create an off-street shared-use path system for use by pedestrians and bicyclists for transportation and recreation.
- CIR-2k: Create bicycle and pedestrian connections to adjacent jurisdictions via shared use paths, bikeways, and sidewalks.
- CIR-2l: Create bicycle and pedestrian connections to the ACE station, planned Valley Link stations, and other transit stops.
- CIR-2m: Encourage transit providers to improve passenger pick-up and drop-off areas at the ACE and planned Valley Link stations to provide more convenient access.
- CIR-2n: Partner with neighboring jurisdictions and regional transit providers (including San Joaquin Regional Transit District, Manteca Transit, and Tracy TRACER Bus Services) to expand transit service between Lathrop and destinations in other jurisdictions.
- CIR-2o: Coordinate with transit providers and encourage them to enhance transit amenities for safe and comfortable access to transit including waiting areas, seating, landscaping, lighting, shade and rain cover, trash receptacles, and passenger loading zones.

- CIR-4a: Refine and update the City of Lathrop interim VMT thresholds and screening criteria to reflect the updated VMT analysis completed for the General Plan update if such updates are deemed necessary or warranted.
- CIR-4b: Evaluate the feasibility of a local or regional VMT impact fee program, bank, or exchange. Such an offset program, if determined feasible, would be administered by the City or a City-approved agency, and would offer demonstrated VMT reduction strategies through transportation demand management programs, impact fee programs, mitigation banks or exchange programs, in-lieu fee programs, or other land use project conditions that reduce VMT in a manner consistent with state guidance on VMT reduction. If, through on-site changes, a subject project cannot eliminate VMT impacts, the project could contribute on a pro-rata basis to a local or regional VMT reduction bank or exchange, as necessary, to reduce net VMT impacts.
- CIR-4c: Require proposed development projects that could have a potentially significant VMT impact to consider reasonable and feasible project modifications and other measures during the project design and environmental review stage of project development that would reduce VMT effects in a manner consistent with state guidance on VMT reduction.
- CIR-4d: Require development projects that employ 100 or more full-time equivalent employees to establish transportation demand management (TDM) programs consistent with San Joaquin Valley Air Pollution Control District requirements.
- CIR-4e: Partner with SJCOG on the Dibs program, which is the regional smart travel program, including rideshare, transit, walking, and biking.
- CIR-4f: As new transportation technologies and mobility services, including autonomous vehicles, electric vehicles, electric bicycles and scooters, and transportation network companies (e.g., Uber and Lyft) are implemented and used by the public, review and update City policies and plans to maximize the benefit to the public of such technologies and services without adversely affecting the City's transportation network. Updates to the City's policies and plans may cover topics such as electric vehicle charging stations, curb space management, changes in parking supply requirements, policies regarding electric scooter use, etc.
- CIR-4g: Encourage open data sharing. Anonymized data can improve the City's decision-making and help to develop more informed policies and plans while preserving people's privacy.
- CIR-4i: As part of the development of or participation in any ridesharing program, including for shared automated vehicle fleets, ensure that the program considers the safety needs of vulnerable populations and loading needs of seniors, families with children, and individuals with mobility impairments.
- CIR-4j: As need for transit grows, review and consider alternatives to conventional bus systems, such as smaller shuttle buses (micro-transit), on-demand transit services, or transportation networking company services that connect neighborhood centers to local activity centers with greater cost efficiency.
- CIR-4k: Require new development to incorporate electric vehicle charging in accordance with the California Green Building Standards Code. Encourage installation of electric vehicle charging stations at existing development.

IMPLEMENTATION ACTIONS – RECREATION AND RESOURCES ELEMENT

- RR-6a: Review development, infrastructure, and planning projects for consistency with SJVAPCD requirements during the CEQA review process. Require project applicants to prepare air quality analyses to address SJVAPCD and General Plan requirements, which include analysis and identification of:
    A. Air pollutant emissions associated with the project during construction, project operation, and cumulative conditions.
    B. Potential exposure of sensitive receptors to toxic air contaminants.
    C. Significant air quality impacts associated with the project for construction, project operation, and cumulative conditions.
    D. Mitigation measures to reduce significant impacts to less than significant or the maximum extent feasible where impacts cannot be mitigated to less than significant.
- RR-6b: Review all new industrial and commercial development projects for potential air quality impacts to residences and other sensitive receptors. Ensure that mitigation measures and best management practices are implemented to reduce significant emissions of criteria pollutants.
- RR-6c: Work with SJCOG and the SJVAPCD to implement plans and programs aimed at improving regional air quality.
- RR-6d: Continue to review development projects to ensure that all new public and private development complies with the California Code of Regulations (CCR), Title 24 standards as well as the energy efficiency standards established by the Lathrop Municipal Code.
- RR-6e: Monitor GHG emissions generated by the community over time for consistency with the established GHG reduction targets, and update the City's community GHG Inventory every five years. In the event that the City determines that ongoing efforts to reduce GHG emissions are not on track to meet the City's adopted GHG reduction targets, the City shall establish and adopt new and/or revised GHG reductions measures that will effectively meet the established GHG reduction targets.
- RR-6f: Continue the expansion of infrastructure to facilitate the use of City-owned low or zero emission vehicles such as electric vehicle charging facilities and conveniently located alternative fueling stations at key City facilities as operations necessitate and/or as funding becomes available.
- RR-6g: Evaluate and consider multi-modal transportation benefits to all City employees, such as free or low-cost monthly transit passes. Encourage employer participation in similar programs. Encourage new transit/shuttle services and use.
- RR-6h: Encourage community car-sharing and carpooling.
- RR-6i: Support the establishment and expansion of a regional network of electric vehicle charging stations and encourage the expanded use of electric vehicles.
- RR-6j: Establish and adopt standards and requirements for electric vehicle parking, including minimum requirements for the installation of electric vehicle charging stations in new multi-family residential and commercial, office, and light industrial development.

- RR-6k: Consider instituting a Green Building Program to reflect best practices, such as encouraging the use of cement substitutes and recycled building materials for new construction.
- RR-6l: Continue cooperating with the SJVAPCD by requiring a dust management plan to prevent fugitive dust from leaving the property boundaries and causing a public nuisance or a violation of an ambient air standard prior to construction and grading.

3.7.3 IMPACTS AND MITIGATION MEASURES

GREENHOUSE GAS EMISSIONS THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, climate change-related impacts are considered significant if implementation of the proposed Project would do any of the following:

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

2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The vast majority of individual projects do not generate sufficient GHG emissions to create a project-specific impact through a direct influence to 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).

For future projects, the significance of GHG emissions may be evaluated based on locally adopted quantitative thresholds, or consistency with a regional GHG reduction plan (such as a Climate Action Plan). The City of Lathrop does not currently have a formal GHG emissions reduction plan or recommended emissions thresholds for determining significance associated with GHG emissions from development projects.

Since no other local or regional Climate Action Plan is in place, the Project is assessed for its consistency with CARB's adopted Scoping Plans. This would be achieved with an assessment of the project's compliance with relevant Scoping Plan measures contained in the CARB's most recent Scoping Plan, as well as the latest RTP/SCS for the region the Project is located within (i.e. the San Joaquin Council of Governments 2022 RTP/SCS, or the SJCOG 2022 RTP/SCS). It should be noted that the Scoping Plan is consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. Therefore, consistency with the CARB's most recent Scoping Plan would also demonstrate consistency with the carbon neutrality requirements encapsulated by AB 1279.

Additionally, the Project is assessed to the extent to which it is able to reduce GHG emissions from Project design features. Therefore, this analysis provides a qualitative assessment of the Project's compliance with the applicable plans, policies, and regulations for the purposes of reducing

greenhouse gas emissions to determine whether the project would have a significant impact on the environment relative to GHGs. Separately, the Project's estimated construction and operation-related GHG emissions are provided for the purposes of disclosure.[3]

IMPACTS AND MITIGATION MEASURES

Impact 3.7-1: Project implementation would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases (Less than Significant)

Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project's GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. Implementation of the Project would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to Project development would be primarily associated with increases of CO_2 and other GHG pollutants, such as methane (CH_4) and nitrous oxide (N_2O), from mobile sources and utility usage.

The Project's short-term construction-related and long-term operational GHG emissions were estimated using the California Emission Estimator Model (CalEEMod)^{TM} (v.2022.1). CalEEMod is a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify GHG emissions from land use projects. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Emissions are expressed in annual metric tons of CO_2 equivalent units of measure (i.e., MT CO_2e), based on the global warming potential of the individual pollutants.

SHORT-TERM CONSTRUCTION GHG EMISSIONS

Estimated maximum GHG emissions associated with construction of the proposed Project are summarized in Table 3.7-2. These emissions include all worker vehicle, vendor vehicle, hauler vehicle, and off-road construction vehicle GHG emissions. For the purposes of this analysis, based on input from the Project applicant, the proposed Project is assumed to commence construction in 2024 and finish in 2026. See Appendix A for further detail.

[3] Project GHG emissions were provided using the latest version of CalEEMod (v2022.1), which represents the Air District's recommended modeling tool for estimating emissions for projects under CEQA.

TABLE 3.7-2: TOTAL CONSTRUCTION GHG EMISSIONS (MT CO_2E/YEAR)

YEAR	BIO- CO_2	NON-BIO- CO_2	TOTAL CO_2	CH_4	N_2O	CO_2E
2024	0	147	147	0.01	0.01	148
2025	0	313	313	0.01	0.01	315
2026	0	34.2	34.2	0.01	0.01	34.4
Total	**0**	**494.2**	**494.2**	**0.03**	**0.03**	**497.4**

SOURCES: CALEEMOD (V.2022.1)

As presented in the table, short-term construction emissions of GHGs are estimated to be a total of approximately 497.4 MT CO_2e.

OPERATIONAL GHG EMISSIONS

The operational GHG emissions estimate for the proposed Project includes on-site area, energy, mobile, waste, and water emissions. Estimated GHG emissions associated with operation of the proposed Project are summarized in Table 3.7-3, below. It should be noted that CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20), which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035; CalEEMod also does not account for the new CARB rules related to truck electrification (e.g. Advanced Clean Trucks Regulation). The new Executive Order and CARB rules are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks over time. The operational emissions results provided in Table 3.7-3 are likely an overestimate for mobile emissions, given the state's ongoing effort to increase electric vehicles and trucks. As shown in the following table, the annual GHG emissions associated with the proposed Project would be approximately 5.238 MT CO_2e.

TABLE 3.7-3: OPERATIONAL GHG EMISSIONS AT BUILDOUT (METRIC TONS/YEAR)

	BIO-CO_2	NON-BIO- CO_2	TOTAL CO_2	CH_4	N_2O	CO_2E
Area	0	0.50	0.50	0.01	0.01	0.50
Energy	0	75.5	75.5	0.01	0.01	75.9
Mobile	0	4,502	4,502	0.19	0.48	4,656
Waste	7.44	0	7.44	0.74	0	26.0
Water	0.91	0.86	1.77	0.09	0.01	4.76
Refrigerants	0	0	0	0	0	475
Total	**8.34**	**4,587**	**4,587**	**1.04**	**0.49**	**5,238**

SOURCES: CALEEMOD (V.2022.1)

CONSISTENCY WITH 2022 SCOPING PLAN

The CARB's 2022 Scoping Plan (the latest version of the Scoping Plan) provides policies that are considered needed to meet the State's mid-term and long-term GHG emissions reduction targets. Specifically, the CARB's 2022 Scoping Plan identifies that it "…lays out the sector-by-sector roadmap for California, the world's fifth largest economy, to achieve carbon neutrality by 2045 or earlier…". The Scoping Plan addresses recent legislation and direction from Governor Newsom, by extending and expanding upon the earlier Scoping Plans with a target of reducing anthropogenic

emissions to 85 percent below 1990 levels by 2045, and adding carbon neutrality as a science-based guide and touchstone for California's climate work. The Scoping Plan is therefore consistent with the AB 1279 GHG reduction targets of achieving carbon neutrality by 2045, and reducing anthropogenic emissions to 85 percent below 1990 levels by 2045. The Project's consistency with the applicable 2022 Scoping Plan policies is discussed in Table 3.7-4, below.

TABLE 3.7-4: PROJECT CONSISTENCY WITH THE 2022 SCOPING PLAN

POLICY	*PROJECT CONSISTENCY*
TRANSPORTATION ELECTRIFICATION	
Convert local government fleets to ZEVs and provide EV charging at public sites	**No Conflict.** While this goal is not applicable to an individual commercial development project, the Project includes an EV parking requirement.
Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans)	
VMT REDUCTION	
Reduce or eliminate minimum parking standards	**No Conflict.** This goal is not applicable to an individual commercial development project. Nevertheless, the Project would construct the minimum number of spaces required by City code, and would work with the City to explore whether an even lower number of spaces is feasible.
Implement Complete Streets policies and investments, consistent with general plan circulation element requirements	
Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.	
Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking	
Implement parking pricing or transportation demand management pricing strategies	
Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing the allowable density of a neighborhood)	
Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)	
BUILDING DECARBONIZATION	
Adopt all-electric new construction reach codes for residential and commercial uses	**No Conflict.** This goal is not applicable to an individual commercial development project.
Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with more efficient systems (such as Energy Star-rated equipment and equipment controllers)	
Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances	
Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing)	
Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings)	

SOURCE: 2022 SCOPING PLAN, TABLE 1, APPENDIX D

Separately, proposed Project's operational emissions would be reduced as regulations are implemented by the CARB and other State agencies to comply with the statewide GHG reduction targets. Many of these regulations are already identified in the 2022 Scoping Plan. These statewide actions are anticipated to reduce operational GHG emissions even further below those identified

in Table 3.7-2 and Table 3.7-3. For example, the proposed Project's transportation emissions would be expected to decline as vehicle efficiency standards are implemented beyond the Advanced Clean Cars II program and the Low Carbon Fuel Standard is strengthened. Furthermore, CalEEMod does not account for Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20) or CARB's subsequent regulations, which requires that all new cars and passenger trucks sold in California be zero-emission vehicles by 2035 and that heavy duty truck emissions be reduced by greater truck electrification. These programs are anticipated to substantially reduce the operational emissions (i.e., mobile emissions) associated with passenger vehicles and freight trucks further, over time.

Overall, the proposed Project would not conflict with the 2022 Scoping Plan. The proposed Project incorporates a wide array of construction- and operation-related Project features that reduce Project emissions, as provided previously (see the list of Project features under the *Project Sustainability Features* discussion, above). Therefore, the Project would be considered consistent with the 2022 Scoping Plan. Since the proposed Project would be consistent with the CARB's 2022 Scoping Plan, buildout of the proposed Project would not interfere with the main programs the CARB has identified to support its conclusions that the State is on a trajectory to meet the 2045 GHG target. Overall, the proposed Project would not impede the 2022 Scoping Plan and would help the State to progress towards this target.

CONSISTENCY WITH SJCOG'S 2022 RTP/SCS

The SJCOG's 2022 RTP/SCS includes eight policies with corresponding implementation strategies for conserving energy, maximizing mobility and accessibility, increasing safety and security, preserving the transportation system, supporting economic development, promoting interagency cooperation and public participation, maximizing cost effectiveness, and improving quality of life for residents. These strategies include similar measures to the 2022 Scoping Plan, such as supporting energy and water efficiency. The Project's consistency with the applicable 2022 RTP/SCS strategies is discussed in Table 3.7-5, below.

TABLE 3.7-5: PROJECT CONSISTENCY WITH THE SJCOG'S 2022 RTP/SCS

POLICY	*PROJECT CONSISTENCY*
Enhance the Environment for Existing and Future Generations and Conserve Energy	No Conflict. The Project would utilize electricity provided by Pacific Gas & Electric (PG&E) which is required to meet the future year renewable portfolio performance standards. In addition, future development associated with Project implementation would be required to meet the applicable requirements of the 2022 (or more current) Title 24 Building Energy Efficiency Standards.
Maximize Mobility and Accessibility	No Conflict. The Project would enhance mobility by providing vehicle fueling and parking.
Increase Safety and Security	No Conflict. The Project would be developed using the latest State and local requirements relating to safety and security.
Preserve the Efficiency of the Existing Transportation System	Not applicable. The Project would not interfere with the efficiency of any existing transportation system.
Support Economic Vitality	No Conflict. The proposed Project would create local jobs as well as provide new commercial options for local and regional residents, thereby supporting economic vitality.

POLICY	*PROJECT CONSISTENCY*
Promote Interagency Coordination and Public Participation for Transportation Decision-Making and Planning Efforts	No Conflict. The proposed Project would engage in the required interagency coordination and public participation efforts, as applicable.
Maximize the Cost Effectiveness	No Conflict. The proposed Project would be developed based on market demand.
Improve the Quality of Life for Residents	No Conflict. The proposed Project would provide additional shopping options for local and regional residents, thereby improving the quality of life for residents.

SOURCE: SJCOG 2022 RTP/SCS

As shown in Table 3.7-5, above, the Project would not conflict with any of the GHG emissions reduction strategies contained in the SJCOG's 2022 RTP/SCS. Therefore, the Project is considered to be consistent with SJCOG's 2022 RTP/SCS.

EXECUTIVE ORDER S-3-05

The Executive Order S-3-05 2050 target has not been codified by legislation. However, studies have shown that, in order to meet the 2050 target, aggressive pursuit of technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. Because of the technological shifts required and the unknown parameters of the regulatory framework in 2050, quantitatively analyzing the project's impacts further relative to the 2050 goal is speculative for purposes of CEQA.[4]

The CARB recognizes that AB 32 establishes an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [greenhouse gas emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, the CARB's First Update to the Scoping Plan "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by the CARB would serve to reduce the proposed project's post-2020 emissions level to the extent applicable by law:

- Energy Sector: Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the State's zero net energy building goals, would serve to reduce the proposed project's emissions level. Additionally, further additions to California's renewable resource portfolio would favorably influence the project's emissions level.

[4] California Air Resources Board (CARB). 2014. First Update to the Climate Change Scoping Plan. Website: http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm. Accessed September 11, 2023.

- Transportation Sector: Anticipated deployment of improved vehicle efficiency, zero-emission technologies, lower carbon fuels, and improvement of existing transportation systems all will serve to reduce the project's emissions level.

- Water Sector: The project's emissions level will be reduced as a result of further utilization of water conservation technologies.

- Waste Management Sector: Plans to further improve recycling, reuse and reduction of solid waste will beneficially reduce the project's emissions level.

In his January 2015 inaugural address, Governor Brown expressed a commitment to achieve "three ambitious goals" that he wanted to see accomplished by 2030 to reduce the State's GHG emissions:

- Increasing the State's Renewable Portfolio Standard from 33 percent in 2020 to 50 percent in 2030;

- Cutting the petroleum use in cars and trucks in half; and

- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the State agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change.[5]

Further, studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.[6]

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and the corresponding effect on GHG emissions.

[5] Brown, Edmund G. Jr. 2015. Press Release: California Establishes Most Ambitious Greenhouse Gas Goal in North America. April 29.
Website: https://www.gov.ca.gov/news.php?id=18938. Accessed February 2, 2021.
[6] Energy and Environmental Economics, 2015. Pathways to Deep Carbonization in the United States.
Website: http://deepdecarbonization.org/wp-content/uploads/2015/11/US_Deep_Decarbonization_Technical_Report_Exec_Summary.pdf. Accessed June 8, 2022.

For the reasons described above, the proposed project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets.

CONCLUSION

The proposed Project would be consistent with relevant plans, policies, and regulations associated with GHGs, notably the most recent version of the CARB's Scoping Plan, and the SJCOG's 2022 RTP/SCS. This would ensure that the proposed Project would be consistent with, and would not impair, the State's carbon neutrality standard by year 2045 as established under AB 1279. The State is making progress toward reducing GHG emissions in key sectors such as transportation, industry, and electricity. Since the Project would be consistent with State GHG Plans, it would not impede the State's goals of reducing GHG emissions 40 percent below 1990 levels by 2030, and of achieving carbon neutrality by 2045. The proposed Project would make a reasonable fair share contribution to the State's GHG reduction goals, by implementing a wide array of Project features that would reduce GHG emissions (see the list of Project features listed within the *Project Sustainability Features* discussion, above) and therefore, the proposed Project's GHG emissions would be considered to have a ***less than significant*** impact.

THRESHOLDS OF SIGNIFICANCE (ENERGY CONSERVATION)

Consistent with Appendices F and G of the CEQA Guidelines, energy-related impacts are considered significant if implementation of the proposed Project would do the following:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation;
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency;

In order to determine whether or not the proposed Project would result in a significant impact on energy use, this EIR includes an analysis of proposed Project energy use, as provided under *Impacts and Mitigation Measures* below.

IMPACTS AND MITIGATION MEASURES

Impact 3.7-2: Project implementation would not result in the inefficient, wasteful, or unnecessary use of energy resources, and would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency (Less than Significant)

According to the CEQA Guidelines, the means to achieve the goal of conserving energy include decreasing overall energy consumption, decreasing reliance on natural gas and oil, and increasing reliance on renewable energy sources. In particular, the proposed Project would be considered "wasteful, inefficient, and unnecessary" if it were to violate State and federal energy standards and/or result in significant adverse impacts related to Project energy requirements, energy inefficiencies, energy intensiveness of materials, effects on local and regional energy supplies or on requirements for additional capacity, compliance with existing energy standards, effects on energy resources, or transportation energy use requirements. In addition, the Project could have a

significant energy impact if it would conflict or create an inconsistency with an applicable plan, policy, or regulation for renewable energy or energy efficiency.

The proposed Project includes various characteristics that reduce the inefficient, wasteful, or unnecessary use of energy. For example, the proposed Project would comply with the latest version of the California Title 24 Energy Efficiency Standards.

Moreover, it should be noted that, over time, electrification of the vehicles will increase due to state requirements, and state and national trends. Electric charging infrastructure would be installed on the property to facilitate the conversion of the truck fleet to zero-emission electric trucks as they become available in the market and used for truck deliveries to and from the facility.

The amount of energy used by the proposed Project during operation would include the amount of energy used by Project buildings and outdoor lighting, and the fuel used by vehicle trips generated during Project construction and operation, fuel used by off-road construction vehicles during construction activities, and fuel used by Project maintenance activities during Project operation. The following discussion provides a detailed calculation of energy usage expected for the proposed Project, as provided by applicable modelling software (i.e. CalEEMod v2022.1) and the CARB EMFAC2021). Additional assumptions and calculations are provided within Appendix B.2 of this EIR.

ELECTRICITY AND NATURAL GAS

Electricity and natural gas used by the proposed Project would be used primarily to generate energy for Project buildings, as well as for outdoor parking lot lighting. As shown in further detail in the CalEEMod modeling outputs provided in Appendix B, "Energy" is one of the categories that was modeled for GHG emissions. As also shown in the CalEEMod modeling outputs as provided in Appendix B, the proposed Project is anticipated to consume approximately 323,414 kWh of electricity per year and approximately 858,442 kBTU per of natural gas per year. Moreover, this is likely a conservative estimate, given that the CalEEMod model does not account for the latest version of Title 24. Furthermore, this also does not account for the vast majority of the Project's energy efficiency commitments, which would likely drive down the energy usage much further than identified herein.

ON-ROAD VEHICLES (OPERATION)

The proposed Project would generate vehicle trips (i.e., passenger vehicles and heavy-duty trucks) during its operational phase. Compliance with applicable State laws and regulations would limit idling and a part of a comprehensive regulatory framework that is implemented by the CARB. A description of Project operational on-road mobile energy usage is provided below.

According to the Traffic Analysis prepared for the proposed Project (Fehr & Peers, 2023), and as described in more detail in Section 3.13 of this EIR, the proposed Project would increase total vehicle trips by approximately 3,490 new daily trips. In order to calculate operational on-road vehicle energy usage, De Novo Planning Group used fleet mix data from the CalEEMod (v.2022.1) output for the proposed Project, and Year 2025 gasoline and diesel MPG (miles per gallon) factors for individual vehicle classes as provided by EMFAC2021, to derive weighted average gasoline and diesel MPG

factors for the vehicle fleet as a whole. Based on these calculations, as provided in Appendix B, upon full buildout, the proposed Project would generate operational vehicle trips that would use a total of approximately 560 gallons of gasoline and 675 gallons of diesel per day, or 204,560 gallons of gasoline and 246,503 gallons of diesel per year.

The proposed Project's buildings would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Title 24 Energy Efficiency Standards for Nonresidential Buildings and Green Building Code Standards. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting, are widely regarded as the some of the most advanced and stringent building energy efficiency standards in the country. As such, the design of the proposed project would facilitate the future commitment to renewable energy resources. Therefore, building energy consumption would not be considered wasteful, inefficient, or unnecessary.

ON-ROAD VEHICLES (CONSTRUCTION)

The proposed Project would also generate on-road vehicle trips during Project construction (from construction workers and vendors travelling to and from the Project site). De Novo Planning Group estimated the vehicle fuel consumed during these trips based on the assumed construction schedule, vehicle trip lengths and number of workers per construction phase as provided by CalEEMod, and Year 2023 gasoline and diesel MPG factors provided by EMFAC2021 (year 2023 factors were used to represent a conservative analysis, as the energy efficiency of construction activities is anticipated to improve over time). For the sake of simplicity and to be conservative, it was assumed that all construction worker light duty passenger cars and truck trips use gasoline as a fuel source, and all medium and heavy-duty vendor trucks use diesel fuel. Table 3.7-6, below, describes gasoline and diesel fuel consumed during each construction phase (in aggregate). As shown, the vast majority of on-road mobile vehicle fuel used during the construction of the proposed Project would occur during the building construction phase. See Appendix B.2 of this EIR for a detailed accounting of construction on-road vehicle fuel usage estimates.

TABLE 3.7-6: ON-ROAD MOBILE FUEL USAGE BY PROJECT CONSTRUCTION ACTIVITIES – BY PHASE

CONSTRUCTION PHASE	*TOTAL GALLONS OF GASOLINE FUEL(B)*	*TOTAL GALLONS OF DIESEL FUEL(B)*
Site Preparation	80	-
Grading	276	-
Building Construction	1,498	1,769
Paving	137	-
Architectural Coating	20	-
Total	**2,011**	**1,769**

NOTE: (A) PROVIDED BY CALEEMOD OUTPUT. (B)SEE APPENDIX B.3 OF THIS EIR FOR FURTHER DETAIL

SOURCE: CALEEMOD (V.2022.1); EMFAC2021.

OFF-ROAD EQUIPMENT (CONSTRUCTION)

Off-road construction equipment would use diesel fuel during the construction phase of the proposed Project. A non-exhaustive list of off-road constructive equipment expected to be used during the construction phase of the proposed Project includes: forklifts, generator sets, tractors, excavators, and dozers. Based on the total amount of CO_2 emissions expected to be generated by the proposed Project (as provided by the CalEEMod output), and standard conversion factors (as provided by the U.S. Energy Information Administration), the proposed Project would use a total of approximately 279,432 gallons of diesel fuel for off-road construction equipment. Detailed calculations are provided in Appendix B.2 of this EIR.

State laws and regulations would limit idling from both on-road and off-road diesel-powered equipment and are part of a comprehensive regulatory framework that is implemented by the CARB. Additionally, as a practical matter, it is reasonable to assume that the overall construction schedule and process would be designed to be as efficient as feasible in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for further future efficiency gains during construction are limited. For the foregoing reasons, it is anticipated that the construction phase of the project would not result in wasteful, inefficient, and unnecessary consumption of energy.

CONCLUSION

The proposed Project would use energy resources for the operation of Project buildings (natural gas and electricity), outdoor lighting (electricity), on-road vehicle trips (e.g. gasoline and diesel fuel) generated by the proposed Project, and off-road and on-road construction activities associated with the proposed Project (e.g. diesel fuel). Each of these activities would require the use of energy resources. The proposed Project would be responsible for conserving energy, including through Project sustainability features, the mitigation measures provided throughout this EIR, as well as through the implementation of statewide and local measures.

The proposed Project would comply with all applicable federal, State, and local regulations regulating energy usage. Statewide measures, including those intended to improve the energy efficiency of the statewide passenger and heavy-duty truck vehicle fleet (e.g. the Pavley Bill and the Low Carbon Fuel Standard), would improve vehicle fuel economies, thereby conserving gasoline and diesel fuel. These energy savings would continue to accrue over time.

The proposed Project would comply with all existing energy standards and would not be expected to result in significant adverse impacts on energy resources. For these reasons, the proposed Project would not cause an inefficient, wasteful, or unnecessary use of energy resources nor cause a significant impact on any of the energy-related thresholds as described by the *CEQA Guidelines*. This is a ***less than significant*** impact.

The purpose of this section is to disclose and analyze the potential impacts associated with hazards and hazardous materials related to the Project area and general vicinity, and to analyze the potential for exposure of people to hazards and hazardous materials as the Project is built and operated in the future. This section is based in part on the *Draft Environmental Impact Report for the Lathrop General Plan Update* (City of Lathrop, 2022), the *City of Lathrop General Plan* (City of Lathrop, 2022), and the *Phase I Environmental Site Assessment* (ESA) prepared for the Project (AdvancedGeo, 2023) (Appendix E of this Draft EIR).

No comments were received during the NOP comment period regarding hazards and hazardous materials.

As discussed in the Initial Study prepared for the proposed Project, the Project site and surrounding area are not located within an area identified as a fire hazard severity zone by the Fire Hazard Severity Zones Maps prepared by Cal Fire.[1] This is a less than significant impact, and no additional analysis of this CEQA topic is warranted. Similarly, the Project site and surrounding area are not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. Therefore, this CEQA topic is not relevant to the proposed Project and does not require further analysis. For these reasons, the impacts related to wildfire would be less than significant and no additional analysis of this CEQA topic is warranted. These topics will not be further discussed.

3.8.1 ENVIRONMENTAL SETTING

PHYSICAL SETTING

Project Location

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- Project Site (or Annexation Area) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- Development Area – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

[1] Cal Fire, *Fire Hazard Severity Zone Maps*, https://osfm.fire.ca.gov/divisions/wildfire-planning-engineering/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/, accessed September 24, 2020.

Figures 2.0-1 and 2.0-2 in Chapter 2.0, Project Description, show the Project's regional location and vicinity. Figure 2.0-3 provides the APN map.

Existing Site Uses

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), a foundation of a previously demolished abandoned structure, and impervious area. The footprint the impervious area is approximately 2,500 sf.

Existing Surrounding Uses

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 2.0-4 in Chapter 2.0.

Site Topography

The Project Area topography ranges greatly in elevation from approximately 8 to 21 feet above sea level. The high area is located in the eastern portion of the site while the low area is located in the western portion of the site. The majority of the Project Area is generally characterized as flat.

HAZARDS ASSESSMENT

For the purposes of this EIR, "hazardous material" is defined as provided in California Health & Safety Code, Section 25501:

- Any material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment.

"Hazardous materials" include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.

"Hazardous waste" is a subset of hazardous materials. For the purposes of this EIR, the definition of hazardous waste is essentially the same as that in the California Health & Safety Code, Section 25517, and in the California Code of Regulations (CCR), Title 22, Section 66261.2:

- Hazardous wastes are wastes that, because of their quantity, concentration, physical, chemical, or infectious characteristics, may either cause, or significantly contribute to, an increase in mortality or an increase in serious illness, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

CCR Title 22 categorizes hazardous waste into hazard classes according to specific characteristics of ignitibility, corrosivity, reactivity, or toxicity. Hazardous waste with any of these characteristics is also known as a Resource Conservation and Recovery Act (RCRA) waste.

Hazardous materials can be categorized as hazardous non-radioactive chemical materials, radioactive materials, toxic materials, and biohazardous materials. The previous definitions are adequate for non-radioactive hazardous chemicals. Radioactive and biohazardous materials are further defined as follows:

- Radioactive materials contain atoms with unstable nuclei that spontaneously emit ionizing radiation to increase their stability.
- Radioactive wastes are radioactive materials that are discarded (including wastes in storage) or abandoned.
- Toxic wastes are harmful or fatal when ingested or absorbed (e.g., containing mercury, lead). When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute groundwater.
- Biohazardous materials include materials containing certain infectious agents (microorganisms, bacteria, molds, parasites, and viruses) that cause or significantly contribute to increased human mortality or organisms capable of being communicated by invading and multiplying in body tissues.
- Medical wastes include both biohazardous wastes (byproducts of biohazardous materials) and sharps (devices capable of cutting or piercing, such as hypodermic needles, razor blades, and broken glass) resulting from the diagnosis, treatment, or immunization of human beings, or research pertaining to these activities.

There are countless categories of hazardous materials and hazardous wastes that could be found on any given property based on past uses. Some common examples include agrichemicals (chlorinated herbicides, organophosphate pesticides, and organochlorine pesticides, such as such as Mecoprop (MCPP), Dinoseb, chlordane, dichloro-diphenyltrichloroethane (DDT), and dichloro-diphenyl-dichloroethylene (DDE)), petroleum based products (oil, gasoline, diesel fuel), a variety of chemicals including paints, cleaners, and solvents, and asbestos-containing or lead-containing materials (e.g., paint, sealants, pipe solder).

A Phase I ESA was completed for the Project site by AdvancedGeo, Inc. (AGI) in April 2023 (see Appendix E). The purpose of the Phase I ESA was to identify evidence or indications of "recognized environmental conditions" (REC) as defined by the American Society for Testing and Materials (ASTM) *Designation E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ASTM defines an REC as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

The ASTM also defines "Historical" and "Controlled" RECs (HRECs and CRECs, respectively). An HREC is defined as "a past release of any hazardous substance or petroleum products that has

occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." A CREC is defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation or required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls." An HREC is not an REC if a property meets current standards for unrestricted residential use. A CREC remains an REC by definition when the property does not meet the unrestricted residential use requirement unconditionally.

Site Reconnaissance

As part of the Phase I ESA, site reconnaissance was conducted on March 15, 2023 and April 5, 2023. At the time of the visit, the weather was clear and cold. The property was fully accessible during the reconnaissance and no limited conditions were noted.

At the time of the site reconnaissance, the property was vacant, except for the remnants of a demolished single-family dwelling and an abandoned well. Additionally, several stockpiles of aggregate and road base were stored throughout the property.

During the initial inspection on March 15, 2023, AGI noted an apparent illegal dump site with petroleum containing waste located in the driveway entrance for the former residence on the eastern portion of the property. The dump site encompassed an area of approximately 25-square feet, with numerous 55-gallon drums and several smaller containers filled with petroleum products, paints, and coolants. Several of the containers were open, and leaking contents onto bare soil. Oil-stained soil, concrete, and waste construction materials were also noted near the apparent dump site.

It is AGI's understanding that the property owner contracted with Clean Harbors to remove the waste materials and cleanup the petroleum impacted soil. Cleanup activities included the removal of all waste materials and contaminated construction waste. Additionally, approximately 5.1 cubic yards of impacted soil were excavated and placed in covered bins for disposal. Representatives for Clean Harbors reportedly utilized visual observations to determine that all impacted soil was removed.

On April 5, 2023, AGI conducted a follow-up inspection of the Project site. No obvious petroleum staining or odors were observed in soils remaining within the excavation area (former apparent dump area). At least three 55-gallon drums and several smaller containers filled with petroleum products were observed in an illegal dump site located on the eastern portion of the Project site. Subsequent clean-up activities have since removed all petroleum products from the Project site.

No other current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the Project site or have been historically utilized on the site.

The following is a description of the property improvements:

- **Structures:** Building footprint and subfloor of a single-family residence was observed on the eastern subject parcel (APN 191-250-140).
- **Adjoining / Access / Egress Roads:** The property is accessible via Manthey Road. A portion of an asphalt driveway is located west of Manthey Road.
- **Surface Types:** The property is covered with grass and bare soil. A portion of an asphalt driveway is located west of Manthey Road.
- **Additional Features:** Large amounts of road base aggregate were stockpiled for planned development of the property. An abandoned irrigation well was observed northwest of the former residence.
- **Surface Water:** None.

Various exterior and interior observations were made at the time of the property reconnaissance, as noted in the following table:

TABLE 3.8-1: EXTERIOR AND INTERIOR OBSERVATIONS

YES	*NO*	*CONDITION OBSERVED ON/AT PROJECT SITE*
	X	**Pits, ponds or lagoons with respect to waste treatment or disposal**
X		**Stained soil or pavement, patched pavement:** Approximately 30 square feet of petroleum-stained soil and concrete was observed at an apparent illegal dump site on the eastern portion of the Project site. Subsequent clean-up activities performed after initial AGI's inspection included excavation and removal of approximately 5.1 cubic yards of petroleum impacted soil and concrete. During a follow-up inspection conducted in April 2023, AGI did not observe any obvious petroleum staining or odors in the soils remaining within the excavation area.
	X	**Stressed vegetation (from causes other than insufficient water)**
	X	**Fill dirt from unknown source, or contaminated source**
	X	**Solid waste (mounds or depressions suggesting waste disposal)**
	X	**Wastewater / storm water discharged into a drain, ditch or stream**
X		**Wells (abandoned, irrigation, domestic, monitoring or oil and gas):** An abandoned irrigation well was observed on the central portion of the Project site, northeast of the former dwelling.
	X	**Dry wells**
	X	**Septic systems or cesspools**
	X	**Movement of hazardous materials to adjacent properties**
X		**Hazardous substances and/or petroleum products:** Numerous petroleum containing products were observed on the Project site at an apparent illegal dump site on the eastern portion of the Project site. Substances include discarded used oil filters and other small containers of used motor oil. Subsequent clean-up activities performed after AGI's initial inspection have since removed and disposed of the waste petroleum products.
	X	**Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances**

YES	*NO*	*CONDITION OBSERVED ON/AT PROJECT SITE*
	X	**Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances**
	X	**Strong, pungent or noxious odors**
X		**Pools of liquid (other than water):** An apparent illegal dump site with several open containers of various waste automotive fluids and petroleum products was noted in the driveway area for the former dwelling on the eastern portion of the Project site. Pooled oil and coolant was observed on the bare soil in the immediate vicinity of the apparent dump site. Subsequent clean-up activities performed after AGI's initial inspection included removal of all waste materials and excavation of approximately 5.1 cubic yards of impacted soil. During a follow-up inspection conducted in April 2023, AGI did not observe any obvious petroleum staining or pooled liquids within the excavation area.
X		**55-gallon drum or large sack storage:** An apparent illegal dump site was noted in the driveway entrance for the former dwelling on the eastern portion of the Project site. Three 55-gallon drums containing petroleum products and waste were noted within the dump area. Subsequent clean-up activities performed after AGI's initial inspection included removal of all drums and waste materials. During a follow-up inspection conducted in April 2023, AGI did not observe any drums or containers on the Project site.
	X	**Unidentified substance containers**
	X	**Stains and/or corrosion on floors, walls or ceiling (except water)**
	X	**Drains and sumps**
	X	**Oil-water separator/clarifier**
	X	**Electrical or hydraulic equipment known to contain PCBs**
	X	**Obvious signs of possible ACMs**
	X	**Obvious signs of mold**
	X	**Other areas of environmental concern**

SOURCE: ADVANCEDGEO (2023).

Interviews

As part of the Phase I ESA, interviews were conducted with various persons with knowledge of the current and past site uses.

- **Property Owner:** Mr. Gurbinder Singh, current property owner, was interviewed by AGI personnel on March 15, 2023. The following information was obtained from Mr. Singh:
    - Mr. Singh purchased the Project site initially in May of 2019 from the Kelley Family.
    - The Project site property has been used exclusively for agriculture and residential.
    - A decommissioned septic system is located on the Project site.
    - Mr. Singh states that trash and debris have been illegally dumped on the Project site, including petroleum products (used automotive oil filters). Clean-up action is underway according to Mr. Singh.
    - No underground storage tanks, clarifiers, subsurface hoists, discarded automobile batteries, stained soil, etc. are present on the Project site.
    - No environmental liens, violations or lawsuits have been filed against the Project site.
    - Mr. Singh is unaware of any other potential environmental issues.
- **Site Manager:** The Project site manager was not interviewed during the course of the Phase I.

- **Property Occupant(s):** Property occupants were not interviewed during the course of the Phase I.
- **Local Government Officials:** With the exception of file review requests, no local government officials were interviewed during the course of the Phase I.
- **Others:** No additional interviews were performed during the course of the Phase I.

Historical Use Information

Historical use of immediately adjoining properties has been agricultural land and homesteads since the late-1930s. I-5 was developed to the west in the early-1970s. Between the late 1960s to mid-1970s, Manthey Road was developed through the eastern portion of the Project site. Historical uses of adjoining properties do not appear to be of environmental concern to the Project site.

Aerial Photographs

AGI reviewed aerial photographs of the Project site and surrounding area that were provided by Environmental Data Resources (EDR) as well reviewed online (Google Earth) for the years 1937, 1940, 1957, 1963, 1968, 1975, 1982, 1993, 2006, 2009, 2012, 2016 and 2022. The following is a summary of the review of the aerial photographs:

TABLE 3.8-2: AERIAL PHOTOGRAPHS

YEAR(S)	*PROJECT SITE*	*SURROUNDING AREA*
1937, 1940	The Project site is an agricultural field.	The adjacent properties to the north, south, east, and west are utilized for agriculture. Rural residences are visible to the adjacent northeast and east. California I-5 is visible to the east as a one-lane highway. Residential development is visible along I-5 to the east and southeast. Manila Road is visible to the south.
1957, 1963	A single residence is visible on the southwestern corner of the Project site while the remainder of the property is an agricultural field.	Unchanged except for a large residence located adjacent to the east of the Project site along I-5.
1968	A residence is located in the center portion of the Project site consistent with the current building footprint. The remainder of the property is an agricultural field.	Unchanged with the exception of residential development present immediately south of the Project site.
1975	Unchanged from previous images.	The current extent and layout of I-5 is visible with on-off ramps to the east of the Project site Manthey Road is visible bisecting the Project site from north to south.
1982, 1993, 2006, 2009, 2012, 2016	The residence previously located in the southwestern corner of the Project site has been removed. By 2006, the agricultural field appears to be fallow.	Commercial and residential development is visible to the east following California I-5. By 2006, a large warehouse is visible to the southeast along South Harlan Road.

YEAR(S)	PROJECT SITE	SURROUNDING AREA
2022	The residence located on the center portion of the Project site along Manthey Road has been removed. The foundations of the structure and driveway are visible. Numerous piles of soil can be observed on the central portion of the Project site near the former residence.	Unchanged from previous images.

SOURCE: ADVANCEDGEO (2023).

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the Project site.

Previous Phase I and II ESAs

AGI reviewed the following previous ESAs:

- Advanced GeoEnvironmental, Inc (AGE)-prepared Phase I ESA, March 26, 2019: In March 2019, AGE (predecessor to AGI) completed a Phase I for the property identified by address 11293 South Manthey Road (APN 191-250-140). The subject property comprised a single 11.4-acre parcel, located south of Roth Road. Manthey Road crossed through the eastern portion of the property parcel. At the time of the 2019 Phase I, the property was largely undeveloped land, with several remnants of a former residence remaining, including a well pump and electric meter. AGE did not identify any HRECs, CRECs or RECs in regard to the subject property.
- AGI-prepared Phase I ESA, April 26, 2021: In April 2021, AGI completed a Phase I for the property identified by address 169 Manilla Road (APN 191-250-060). The subject property comprised a single 10.3-acre parcel, located to the north of Manila Road. At the time of the 2021 Phase I, the property was undeveloped, vacant rural grassland with no improvements or structures, except for an abandoned water well. AGE did not identify any HRECs, CRECs or RECs in regard to the subject property.

Copies of the previous ESAs are included in Appendix B of Appendix E.

Project Site Database Search

The property address 11293 South Manthey Road, Lathrop, California is listed on the following governmental databases in the EDR Report under the name "GURDIP KELLY".

TABLE 3.8-3: SUBJECT PROPERTY DATABASE SEARCH

DATABASE	SUMMARY
HAZNET	A single hazardous waste manifest on file from 2015. The waste manifest depicts approximately 0.46-tons of asbestos containing waste removed from the subject property.
HWTS	Listed with an EPA ID of CAC002806664 with a creation date of 03/10/2015 and an inactive date of 06/09/2015. The facility is depicted as an inactive and temporary state facility with no other information on file.

SOURCE: ADVANCEDGEO (2023).

Site Vicinity Database Search

Sites with recognized environmental conditions surrounding the Project site are typically of concern to the site when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGI retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C of Appendix E. The following information was obtained:

TABLE 3.8-4: SITE VICINITY DATABASE SEARCH

TYPE	*REGULATORY AGENCY DATABASE*	*AMSD*	*NUMBER OF SITES WITHIN THE AMSD*
Federal	National Priority List Sites: **NPL, Proposed NPL, NPL LIENS**	1mile	1
Federal	Delisted National Priority List Sites: **Delisted NPL**	½-mile	0
Federal	Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites: **FEDERAL FACILITY, SEMS**	½-mile	1
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites: **SEMS-ARCHIVE**	½-mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report Sites: **CORRACTS**	1 mile	**1**
Federal	RCRA Non-CORRACTS Treatment, Storage, or Disposal (TSD) Sites: **RCRA-TSDF**	½- mile	1
Federal	RCRA Generator Sites: **RCRA-LQG, RCRA-SQG, RCRA – CESQG, RCRA NonGen/NLR**	¼-mile	2
Federal	Institutional Control/Engineering Control Registry Sites: **LUCIS, US ENG CONTROLS, US INST CONTROL**	½-mile	0
Federal	Environmental Response and Notification System Sites: **ERNS**	<1/8-mile	0
State & Tribal	Solid Waste Disposal Facilities and/or Landfill Sites: **SHWF**	½-mile	0
State & Tribal	Leaking Storage Tank Sites: **LTANKS, LUST, LUST TRUST**	½-mile	**2**
State & Tribal	Registered Storage Tank Sites: **UST, AST**	¼-mile	**13**
State & Tribal	Voluntary Cleanup Sites: **INDIAN VCP, VCP**	½-mile	0
State, Tribal & Local	Brownfield Sites: **BROWNFIELDS, US BROWNFIELDS**	½-mile	0
Local	Dry Cleaning Facility Sites: **DRYCLEANERS**	¼-mile	0
Either	Unmappable Database Listings: **orphan sites**	Database dependent	**6**

NOTE: AMSD: APPROPRIATE MINIMUM SEARCH DISTANCE.
SOURCE: ADVANCEDGEO (2023).

AGI's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby

sites identified in the regulatory database report present an environmental risk to the subject property, AGI considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;
- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;
- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria and based on a review of readily available information contained within the regulatory database report, AGI did not identify adjacent or nearby sites (e.g., within ¼- mile radius) listed on the regulatory database report that were judged to present a potential environmental risk to the subject property with the exception of the following:

TABLE 3.8-5: SITE VICINITY DATABASE SEARCH

SITE	*DISTANCE AND DIRECTION[1]*	*DATABASE(S) AND SUMMARY*	*ENVIRONMENTAL CONCERN[2]*
MOORMAN MFG 250 E Roth Dr	830 feet E Equi-gradient	RCRA NON-GEN, SWEEPS UST, HIST UST, CERS HAZ WASTE, CERS, UST, EMI: Verified as a current non-generator and chemical storage facility with handler activities. No violations or evaluations on file. A total of two underground storage tanks on file containing 10,000-gallons each of gasoline and diesel fuel.	No indication - based on the non-generator status and distance to the Project site.
BENETO TANK LINE 10998 S Harlan Rd	872 feet ENE Equi-gradient	LUST, CORTESE, CERS: Leaking underground storage tank with diesel. Case closed in 2007 and issued a closure no further action letter.	No indication - based on the regulatory status and distance to the Project site.
SHARPE ARMY DEPOT 700 E Roth Rd	1,916 feet E Equi-gradient	NPL, SEMS, CORRACTS, RCRA, US ENG CONTROLS, US INST CONTOLS, HIST UST, RCRA NON-GEN, ROD: The site operated as an Army Depot in the 1980's. US Army maintenance facility produced waste products that affected groundwater conditions.	No indication - based on the regulatory status and distance to the Project site.

NOTES: N: NORTH; S: SOUTH; E: EAST; W: WEST; NE: NORTHEAST; SE: SOUTHEAST; NW: NORTHWEST; SW: SOUTHWEST.
1: DISTANCE AND DIRECTION FROM SUBJECT PROPERTY
2: ENVIRONMENTAL CONCERN BASED ON THE EDR REPORT
SOURCE: ADVANCEDGEO (2023).

Additional Project Site Property Records

The Project site address was searched on the following record sources:

TABLE 3.8-6: SITE VICINITY DATABASE SEARCH

SOURCE	*SUMMARY*
Regional Board & GeoTracker database	The Project site is not listed on the GeoTracker database, and the Regional Board does not have any records on-file.
DTSC & ENVIROSTOR database	The Project site is not listed on the ENVIROSTOR database and the DTSC does not have any records on-file.
USEPA ENVIROFACTS	The Project site is not listed on the ENVIROFACTS database.
SJVAPCD	The SJVAPCD does not have records on-file for the Project site.
SJCEHD	SCCEHD records for the Project site pertain to the construction of a 150-foot-deep irrigation well and installation of a 10hp well pump.
CalGEM	According to the CalGEM Well Finder, no oil and/or gas wells are located in the vicinity of the Project site.

SOURCE: ADVANCEDGEO (2023).

Findings

The Phase I ESA has revealed no evidence of potential Business Environmental Risks in connection with the Project site with the exception of the abandoned water well. If the well will not be rehabilitated for future use, the well should be destroyed under permit. Additionally, the Phase I ESA assessment revealed no evidence of potential or de minimis conditions, HRECs, CRECs, or RECs in connection with the Project site.

Further, the Phase I ESA has revealed no evidence of other non-ASTM-defined environmental issues in connection with the Project site except for the petroleum-containing waste observed on the eastern portion of the site during the initial property inspection on March 15, 2023. Several drums and other containers containing waste oil, oil, used oil filters, paint and other wastes were illegally dumped near the former driveway entrance onto the eastern subject parcel. Several of the drums and containers were open and spilling petroleum contents onto bare soil.

In March 2023, the property owner contracted with Clean Harbors to remove the waste materials and cleanup the petroleum-impacted soils. Response activities began on March 18, 2023. Clean-up activities included the removal of all waste materials and contaminated construction waste. Additionally, approximately 5.1 cubic yards of impacted soil were excavated and placed in covered bins for disposal. Representatives for Clean Harbors reportedly utilized visual observations to determine that all impacted soil was removed.

On April 5, 2023, AGI conducted a follow-up inspection of the Project site. No obvious petroleum staining or odors were observed in soils remaining within the excavation area. Any residual petroleum contamination (if any) will likely be minimal and not of significant concern to the Project site. Confirmation soil-sampling was not conducted by Clean Harbors during the March 2023 clean-up.

Transportation of Hazardous Materials

The transportation of hazardous materials within the City of Lathrop Planning Area is subject to various federal, state, and local regulations. The following provisions are included in the California Vehicle Code (CVC) and pertain to the transportation of hazardous related materials.

- The Highway Patrol designates the routes in California which are to be used for the transportation of explosives. (Section 31616)
- The CVC applies when the explosives are transported as a delivery service for hire or in quantities in excess of 1,000 pounds. The transportation of explosives in quantities of 1,000 pounds or less, or other than on a public highway, is subject to the California Health and Safety Code. (Section 31601(a))
- It is illegal to transport explosives or inhalation hazards on any public highway not designated for that purpose, unless the use of the highway is required to permit delivery of, or the loading of, such materials. (Section 31602(b) and Section 32104(a))
- When transporting explosives through or into a city for which a route has not been designated by the Highway Patrol, drivers must follow routes as may be prescribed or established by local authorities. (Section 31614(a))
- Inhalation hazards and poison gases are subject to additional safeguards. These materials are highly toxic, spread rapidly, and require rapid and widespread evacuation if there is loss of containment or a fire. The Highway Patrol designates through routes to be used for the transportation of inhalation hazards. It may also designate separate through routes for the transportation of inhalation hazards composed of any chemical rocket propellant. (Section 32100 and Section 32102(b))

In addition to area roadways, hazardous materials are routinely transported on Union Pacific Railroad lines that are roughly one-quarter mile north and east of the Project Area boundary. Hazardous materials are transported on these lines. The risk of accidents, and more specifically accidents involving hazardous materials, is relatively low. The U.S. Department of Transportation Federal Railroad Administration found the Union Pacific Railroad Company train accident rate to be 4.18 train accidents per one million train miles traveled, resulting in a less than 0.001% chance of an accident. Risk of a railroad accident containing hazardous materials is considered much lower, as only an average of eight accidents involving hazardous material spills occur annually in California.

The Union Pacific Railroad Company does implement a security plan in compliance with the Department of Transportation Final Rule 49 CFR Part 172 Hazardous Materials (HM 232): Security Requirements for Offerors and Transporters of Hazardous Materials. The plan includes requirements to enhance the security of transported hazardous materials and ensures proper cleanup procedures in the instance of an accidental release.

3.8.2 REGULATORY SETTING

FEDERAL

Aviation Act of 1958

The Federal Aviation Act resulted in the creation of the Federal Aviation Administration (FAA). The FAA is charged with the creation and maintenance of a National Airspace System.

Federal Aviation Regulations (CFR, Title 14)

The Federal Aviation Regulation (FAR) establishes regulations related to aircraft, aeronautics, and inspection and permitting.

Clean Air Act

The Federal Clean Air Act (FCAA) was first signed into law in 1970. In 1977, and again in 1990, the law was substantially amended. The FCAA is the foundation for a national air pollution control effort, and it is composed of the following basic elements: NAAQS for criteria air pollutants, hazardous air pollutant standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions.

Clean Water Act

The Clean Water Act (CWA), which amended the Water Pollution Control Act (WPCA) of 1972, sets forth the §404 program to regulate the discharge of dredged and fill material into Waters of the U.S. and the §402 National Pollutant Discharge Elimination System (NPDES) to regulate the discharge of pollutants into Waters of the U.S. The §401 Water Quality Certification program establishes a framework of water quality protection for activities requiring a variety of Federal permits and approvals (including CWA §404, CWA §402, FERC Hydropower and §10 Rivers and Harbors).

Comprehensive Environmental Response, Compensation, and Liability Act

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) introduced active Federal involvement to emergency response, site remediation, and spill prevention, most notably the Superfund program. The Act was intended to be comprehensive in encompassing both the prevention of, and response to, uncontrolled hazardous material releases. CERCLA deals with environmental response, providing mechanisms for reacting to emergencies and to chronic hazardous material releases. In addition to establishing procedures to prevent and remedy problems, it establishes a system for compensating appropriate individuals and assigning appropriate liability. It is designed to plan for and respond to failure in other regulatory programs and to remedy problems resulting from action taken before the era of comprehensive regulatory protection.

Environmental Protection Agency

The primary regulator of hazards and hazardous materials is the EPA, whose mission is to protect human health and the environment. The City of Lathrop is located within EPA Region 9, which includes Arizona, California, Hawaii, Nevada, the Pacific Islands, and 148 Tribes.

FY 2001 Appropriations Act

Title IV of the Appropriations Act required the identification of "Urban Wildland Interface Communities in the Vicinity of Federal Lands that are at High Risk from Wildfire" by the U.S. Departments of the Interior and Agriculture.

Hazardous Materials Transportation Act

The Hazardous Materials Transportation Act, as amended, is the statute regulating hazardous materials transportation in the United States. The purpose of the law is to provide adequate protection against the risks to life and property inherent in transporting hazardous materials in interstate commerce. This law gives the U.S. Department of Transportation (USDOT) and other agencies the authority to issue and enforce rules and regulations governing the safe transportation of hazardous materials (DOE 2002).

Natural Gas Pipeline Safety Act

The Natural Gas Pipeline Safety Act authorizes the U.S. Department of Transportation Office of Pipeline Safety to regulate pipeline transportation of natural (flammable, toxic, or corrosive) gas and other gases as well as the transportation and storage of liquefied natural gas. The Office of Pipeline Safety regulates the design, construction, inspection, testing, operation, and maintenance of pipeline facilities. While the Federal government is primarily responsible for developing, issuing, and enforcing pipeline safety regulations, the pipeline safety statutes provide for State assumption of the intrastate regulatory, inspection, and enforcement responsibilities under an annual certification. To qualify for certification, a state must adopt the minimum Federal regulations and may adopt additional or more stringent regulations as long as they are not incompatible.

Resource Conservation and Recovery Act

The Resources Conservation and Recovery Act (RCRA) established EPA's "cradle to grave" control (generation, transportation, treatment, storage and disposal) over hazardous materials and wastes. In California, the DTSC has RCRA authorization.

The 1976 Federal Resource Conservation and Recovery Act (RCRA) and the 1984 RCRA Amendments regulate the treatment, storage, and disposal of hazardous and non-hazardous wastes. The legislation mandated that hazardous wastes be tracked from the point of generation to their ultimate fate in the environment. This includes detailed tracking of hazardous materials during transport and permitting of hazardous material handling facilities.

The 1984 RCRA amendments provided the framework for a regulatory program designed to prevent releases from USTs. The program established tank and leak detection standards, including spill and overflow protection devices for new tanks. The tanks must also meet performance standards to ensure that the stored material will not corrode the tanks. The RCRA was further amended in 1988 to set additional standards for USTs.

In July 2015, the EPA revised the federal UST regulation, which strengthened the 1988 federal UST regulations by increasing emphasis on properly operating and maintaining UST equipment. The revision added new operation and maintenance requirements and addressed UST systems deferred in the 1988 UST regulation. The purpose of the revision was to help prevent and detect UST releases, which are a leading source of groundwater contamination. To ensure compliance performance measures reflect the 2015 UST regulation, the Environmental Protection Agency (EPA) and the Association of State and Territorial Solid Waste Management Officials coordinated to update existing compliance performance measures and add new measures. The measures

required states to switch from tracking compliance against significant operational compliance measures to the more stringent technical compliance rate (TCR) measures. As of October 2019, only 43.7 percent of USTs were in compliance with all TCR categories.

STATE

Aeronautics Act (Public Utilities Code §21001)

The Caltrans Division of Aeronautics bases the majority of its aviation policies on the Aeronautics Act. Policies include permits and annual inspections for public airports and hospital heliports and recommendations for schools proposed within two miles of airport runways.

Airport Land Use Commission Law (Public Utilities Code §21670 et seq.)

The law, passed in 1967, authorized the creation of Airport Land Use Commissions (ALUC) in California. Per the Public Utilities Code, the purpose of an ALUC is to protect *public health, safety, and welfare by encouraging orderly expansion of airports and the adoption of land use measures that minimizes exposure to excessive noise and safety hazards within areas around public airports to the extent that these areas are not already devoted to incompatible uses* (Pub. Util. Code §21670). Furthermore, each ALUC must prepare an Airport Land Use Compatibility Plan (ALUCP). Each ALUCP, which must be based on a twenty-year planning horizon, should focus on broadly defined noise and safety impacts.

Assembly Bill 337

Per AB 337, local fire prevention authorities and CalFire are required to identify Very High Fire Hazard Severity Zones (VHFHSZ) in LRAs. Standards related to brush clearance and the use of fire-resistant materials in fire hazard severity zones are also established.

California Code of Regulations

Title 3 of the California Code of Regulations (CCR) pertains to the application of pesticides and related chemicals. Parties applying regulated substances must continuously evaluate application equipment, the weather, the treated lands, and all surrounding properties. Title 3 prohibits any application that would:

- Contaminate persons not involved in the application;
- Damage non-target crops or animals or any other public or private property; and
- Contaminate public or private property or create health hazards on said property.

Title 8 of the CCR establishes California Occupational Safety and Health Administration (Cal OSHA) requirements related to public and worker protection. Topics addressed in Title 8 include materials exposure limits, equipment requirements, protective clothing, hazardous materials, and accident prevention. Construction safety and exposure standards for lead and asbestos are set forth in Title 8.

Title 14 of the CCR establishes minimum standards for solid waste handling and disposal.

Title 17 of the CCR establishes regulations relating to the use and disturbance of materials containing naturally occurring asbestos.

Title 19 of the CCR establishes a variety of emergency fire response, fire prevention, and construction and construction materials standards.

Title 22 of the CCR sets forth definitions of hazardous waste and special waste. The section also identifies hazardous waste criteria and establishes regulations pertaining to the storage, transport, and disposal of hazardous waste.

Title 26 of the CCR is a medley of State regulations pertaining to hazardous materials and waste that are presented in other regulatory sections. Title 26 mandates specific management criteria related to hazardous materials identification, packaging, and disposal. In addition, Title 26 establishes requirements for hazardous materials transport, containment, treatment, and disposal. Finally, staff training standards are set forth in Title 26.

Title 27 of the CCR sets forth a variety of regulations relating to the construction, operation, and maintenance of the state's landfills. The title establishes a landfill classification system and categories of waste. Each class of landfill is constructed to contain specific types of waste (household, inert, special, and hazardous).

California Government Code Section 65302

This section, which establishes standards for developing and updating General Plans, includes fire hazard assessment and Safety Element content requirements.

California Health and Safety Code

Division 11 of the Health and Safety Code establishes regulations related to a variety of explosive substances and devices, including high explosives and fireworks. Section 12000 et seq. establishes regulations related to explosives and explosive devices, including permitting, handling, storage, and transport (in quantities greater than 1,000 pounds).

Division 12 establishes requirements for buildings used by the public, including essential services buildings, earthquake hazard mitigation technologies, school buildings, and postsecondary buildings.

Division 20 establishes DTSC authority and sets forth hazardous waste and underground storage tank regulations. In addition, the division creates a State superfund framework that mirrors the Federal program.

Division 26 establishes California Air Resources Board (CARB) authority. The division designates CARB as the air pollution control agency per Federal regulations and charges the Board with meeting Clean Air Act requirements.

California Health and Safety Code and Uniform Building Code Section 13000 et seq.

State fire regulations are set forth in §13000 *et seq*. of the California Health and Safety Code, which is divided into "Fires and Fire Protection" and "Buildings Used by the Public." The regulations provide for the enforcement of the Uniform Building Code and mandate the abatement of fire hazards.

The code establishes broadly applicable regulations, such as standards for buildings and fire protection devices, in addition to regulations for specific land uses, such as childcare facilities and high-rise structures.

California Vehicle Code §31600 (Transportation of Explosives)

This code establishes requirements related to the transportation of explosives in quantities greater than 1,000 pounds, including licensing and route identification.

California Public Resources Code

The State's Fire Safety Regulations are set forth in Public Resources Code §4290, which include the establishment of State Responsibility Areas (SRAs).

Public Resources Code §4291 sets forth defensible space requirements, which are applicable to anyone who "*…owns, leases, controls, operates, or maintains a building or structure in, upon, or adjoining a mountainous area, forest-covered lands, brush-covered lands, grass-covered lands, or land that is covered with flammable material"* (§4291(a)).

Food and Agriculture Code

Division 6 of the California Food and Agriculture Code (FAC) establishes pesticide application regulations. The division establishes training standards for pilots conducting aerial applications as well as permitting and certification requirements.

State Oversight of Hazards and Hazardous Materials

The DTSC is chiefly responsible for regulating the handling, use, and disposal of toxic materials. The State Water Resources Control Board (SWRCB) regulates discharge of potentially hazardous materials to waterways and aquifers and administers the basin plans for groundwater resources in the various regions of the state. The Regional Water Quality Control Board (RWQCB) oversees surface and groundwater. Programs intended to protect workers from exposure to hazardous materials and from accidental upset are covered under OSHA at the Federal and California Division of Occupational Safety and Health (Cal/OSHA) and the California Department of Health Services (DHS) at the state level. Air quality is regulated through the CARB and San Joaquin Valley Air Pollution Control District. The State Fire Marshal is responsible for the protection of life and property through the development and application of fire prevention engineering, education, and enforcement; CalFire provides fire protection services for State and privately-owned wildlands.

Water Code

Division 7 of the California Water Code, commonly referred to as the Porter-Cologne Water Quality Control Act, created the SWRCB and the RWQCB. In addition, water quality responsibilities are established for the SWRCB and RWQCBs.

LOCAL

Certified Unified Program Agencies

Senate Bill 1082 (1993) required the establishment of a unified hazardous waste and hazardous materials management program. The result was Cal EPA's United Program, which consolidates the actions of DTSC, the SWRCB, the RWQCB's, OES, and the State Fire Marshall. DTSC oversees the implementation of the hazardous waste generator and onsite treatment program, one of six environmental programs at the local level, through Certified Unified Program Agencies (CUPAs). CUPAs have authority to enforce regulations, conduct inspections, administer penalties, and hold hearings. San Joaquin County implements the CUPA that has enforcement authority over the City of Lathrop.

San Joaquin Valley Air Pollution Control District

San Joaquin Valley Air Pollution Control District (SJVAPCD) has jurisdiction over the City of Lathrop and deals with pollutants that get into the air from stationary (including fumes, dust and smoke, some asbestos) and mobile sources. SJVAPCD's mission is to improve the health and quality of life for all Valley residents through efficient, effective and entrepreneurial air quality management strategies. SJVAPCD responds to complaints about smells, answers questions about air quality management permits, and reviews development projects for compliance with air quality and greenhouse gas significance thresholds. The SJVAPCD and air quality are addressed in detail in Section 3.3, Air Quality, of this EIR.

San Joaquin County

Hazardous waste programs are managed and implemented locally through the County of San Joaquin CUPA. The County hosts a variety of hazardous waste collection events throughout the County in an effort to deter improper disposal of hazardous wastes.

Household Hazardous Waste (HHW) Collection Facilities receive hazardous waste that comes from homes and, in some cases, from small business hazardous waste generators. Household wastes include pesticides, batteries, old paint, solvents, used oil, antifreeze, and other chemicals that should not go into a regular municipal landfill.

San Joaquin County Public Health Services monitors the possible groundwater and soil contamination from underground tanks. Its funding mechanism is a billing contract with the State Water Quality Control Board. Public Health Services clean-up enforcement falls under Title 23, California Code of Regulations. Case workers monitor site-specific development and must be contacted prior to development.

The City of Lathrop and San Joaquin County Public Works Department deal with illegal discharges to sanitary or industrial sewers, and sometimes collect household hazardous waste. They also help to guard against illegal discharges to storm sewers (releases to the street, etc.).

Households Hazardous Waste

HHWs include pesticides, batteries, old paint, solvents, used oil, antifreeze, and other chemicals that should not go into a regular municipal landfill. HHW programs focus on removing dangerous substances from homes and preventing their release into the environment through landfills, sewer systems and illegal dumping. The San Joaquin County Public Works Solid Waste Division collaborates with various cities in the county on a variety of hazardous waste collection opportunities to assist in the elimination of household hazardous waste. The City of Lathrop contracts with Republic Services for hazardous waste collection opportunities. HHW Collection Facilities receive hazardous waste that comes from homes and, in some cases, from small business hazardous waste generators.

City of Lathrop General Plan

The City's General Plan includes the following policies and actions applicable to the Project:

POLICIES: PUBLIC SAFETY ELEMENT

- PS-2.1: Building Fire Codes. Require that all buildings and facilities within the city comply with local, state, and federal regulatory standards such as the California Building and Fire Codes, as well as other applicable fire safety standards, to minimize the risk of fire in the city.
- PS-2.5: Roadway Design and Maintenance. Design and maintain roadways to maintain acceptable emergency vehicle response times.
- PS-2.6: Water Supply. Ensure that new development is served with adequate water volumes and water pressure to support fire protection, including minimum required fire flow standards for commercial, industrial and residential areas.
- PS-4.2: Reduction. Encourage producers and users of hazardous materials to reduce the amount of hazardous materials produced and used.
- PS-4.3: Storage. Require the storage of hazardous materials in safe manner.
- PS-4.4: Regulations. Ensure that the LMFD continues to enforce the Uniform Fire Code relating to the use of hazardous material and require the appropriate regulations to be followed and precautions taken for the type and amount of hazard being created, used, stored, and/or disposed.
- PS-4.5: Hazardous Materials Business Plan. Coordinate with the LMFD to ensure that businesses in the city which handle hazardous materials prepare and file a Hazardous Materials Business Plan (HMBP). The HMBP shall consist of general business information, basic information on the location, type, quantity, and health risks of hazardous materials, and emergency response and training plans.
- PS-4.6: Cleanup Sites. Require that the hazardous material transporter and/or the party responsible for the release, coordinates with the San Joaquin County Environmental

Health Department, LMFD, and other agencies as needed, to confirm that hazardous waste cleanup sites located within the city are remediated with the property owner in a manner that keeps the public safe.

- PS-4.7: Emergency Response. Work with the LMFD and other responding agencies to ensure that emergency personnel respond safely and effectively to a hazardous materials incident in the city.

ACTIONS: PUBLIC SAFETY ELEMENT

- PS-2a: Continue to enforce the California Building Code and the California Fire Code to ensure that all construction implements fire-safe techniques, including fire resistant materials, where required.
- PS-4a: As part of the development review process, require projects that result in significant risks associated with hazardous materials to include measures to address the risks and reduce the risks to an acceptable level.
- PS-4b: Review development proposals to address proximity of users and transporters of significant amounts of hazardous materials relative to sensitive uses, such as schools and residential neighborhoods.
- PS-4c: Continue to maintain and update emergency service plans, including plans for the handling of hazardous materials and rapid cleanup of hazardous materials spills.
- PS-4d: Continue to require the submittal of information regarding hazardous materials manufacturing, storage, use, transport, and/or disposal by existing and proposed businesses and developments to the LMFD.
- PS-4e: Coordinate with the LMFD and 911 dispatch center to ensure that the City maintains a current database of hazardous materials.
- PS-4f: Educate current and future property owners about contamination from previous uses. The City shall coordinate with property owners in the cleanup of these sites, particularly in areas with redevelopment potential.
- PS-4g: Coordinate with the LMFD, other local agencies, Union Pacific Railroad, and other transporters to strictly regulate and enforce the use, storage, transport, and/or disposal of hazardous materials under California Administrative Code Title 19 requirements.
- PS-4j: Cooperate fully with Union Pacific Railroad, LMFD, and other agencies, such as the California Highway Patrol, in the event of a hazardous material emergency.
- PS-5a: Regularly practice implementation of the City's Emergency Regularly review County and State emergency response procedures that must be coordinated with City procedures.
- PS-5b: Cooperate with San Joaquin County OES, LMFD, Lathrop Police Services, San Joaquin County Sheriff, the reclamation districts, and other agencies with responsibility for emergency management in emergency response planning, training and provision of logistical support.
- PFS-7b: The LMFD and the Public Works Department will review proposed development projects and street networks to evaluate the accessibility for fire engines and other emergency response functions.

POLICIES: LAND USE ELEMENT

- LU-3.5: Ensure that development within the Stockton Metropolitan Airport Influence Area (Figure 4.2-1 of the General Plan Existing Conditions Report) is consistent with the compatible uses identified in the Project Review Guidelines for the Airport Land Use Commission.

ACTIONS: LAND USE ELEMENT

- LU-3f: Refer all applications for development within the Stockton Metro Airport Area of Influence to the Airport Land Use Commission and the Stockton Metro Airport for comment.

3.8.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact from hazards and hazardous materials if it will:

- Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;
- 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;
- Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school;
- 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;
- 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;
- Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

IMPACTS AND MITIGATION MEASURES

Impact 3.8-1: Potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials or through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. (Less than Significant with Mitigation)

CONSTRUCTION PHASE IMPACTS

Construction activities would occur in phases through the development of the proposed Project. Construction equipment and materials would likely require the use of petroleum-based products (oil, gasoline, diesel fuel), and a variety of chemicals including paints, cleaners, and solvents. The use of these materials at a construction site will pose a reasonable risk of release into the environment if not properly handled, stored, and transported. A release into the environment could pose significant impacts to the health and welfare of people and/or wildlife, and could result in contamination of water, habitat, and countless important resources. The RWQCB requires a project specific Storm Water Pollution Prevention Plan (SWPPP) to be prepared for each project that disturbs an area one acre or larger. The SWPPP is required to include project specific best management measures that are designed to control drainage and erosion. The Project would be statutorily required to submit and comply with the SWPPP.

Like most agricultural and farming operations in the Central Valley, agricultural practices in the area have used agricultural chemicals including pesticides and herbicides as a standard practice. Although no contaminated soils have been identified in the Project area or the vicinity above applicable levels, residual concentrations of pesticides may be present in soil as a result of historic agricultural application and storage. Continuous spraying of crops over many years can potentially result in a residual buildup of pesticides, in farm soils. Of highest concern relative to agrichemicals are chlorinated herbicides, organophosphate pesticides, and organochlorine pesticides, such as such as Mecoprop (MCPP), Dinoseb, chlordane, dichloro-diphenyltrichloroethane (DDT), and dichloro-diphenyl-dichloroethylene (DDE). Soil testing was not completed as part of the Phase I ESA.

Environmental concerns identified in the Phase I ESA for the Project site did not qualify as RECs, HRECs, or CRECs; however, these environmental issues warrant further discussion. The following was identified during the course of the Phase I ESA:

- Several drums of waste oil, oil, oil filters, and paint were dumped and impacted the soil on the eastern portion of the Project site in early March 2023. In mid-March 2023, 5.1 cubic yards of soil were excavated for disposal. Only visual observations were utilized to determine the extent of the excavation. On April 5, 2023, a follow-up inspection of the Project site was conducted. No obvious petroleum staining or odors were observed in soils remaining within the excavation area. Any residual petroleum contamination (if any) will likely be minimal and not of significant concern to the Project site. Confirmation soil-

sampling was not conducted during the March 2023 clean-up. While the soil visually appears clean, confirmation soil samples should be considered to validate the successful removal of the impacted soil. This is a potentially significant impact.

- The Project site is currently and has historically been used for agricultural purposes since the late 1930s. As such, agricultural-related chemicals such as pesticides, herbicides, insecticides, and fertilizers have been used and stored onsite. This is a potentially significant impact.
- An abandoned water well is centrally located on the west boundary of the Project site. If the well will not be rehabilitated for future use, the well should be destroyed under permit. This is a potentially significant impact.

OPERATIONAL PHASE IMPACTS

Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The proposed Project includes the following amenities:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands (12 dispensers);
    - Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.
- Various parking areas during Phases I and II, including:
    - 148 truck/trailer spaces, 163 passenger vehicle spaces (including 128 regular spaces, 28 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase I; and
    - 98 truck/trailer spaces, 203 passenger vehicle spaces (including 176 regular space, 20 compact spaces, and 7 ADA spaces), 2 fueling and gas/diesel spaces, 10 electric vehicle spaces for Phase II;
- A 13,846-sf full service 4-bay truck and automobile repair shop;
- A 16,668-sf building that will include the following:
    - Office space;
    - Restroom facilities, 8 showers;
    - Laundry facility with 12 sets of washer/dryer;
    - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
    - Two quick service restaurants, one with a drive-thru option;
    - Seating area for patrons to dine;
- Two dog run areas enclosed with metal fences.

The operational phase of the Project will occur after construction is completed and business operators/employees move in to occupy the structures and facilities on a day-to-day basis. Each of these uses will likely use a variety of hazardous materials commonly found in urban areas including: paints, cleaners, and cleaning solvents. If handled appropriately, these materials do not pose a significant risk. These facilities will store and use these materials. There will be a risk of

release of these materials into the environment if they are not stored and handled in accordance with best management practices approved by the San Joaquin County Environmental Health Department and the Lathrop-Manteca Fire Protection District (LMFD). The uses in the 16,668-sf building are not anticipated to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste beyond the common materials described above. However, the proposed fueling facility and truck and automobile repair shop would require the use of hazardous and flammable materials. Through compliance with the local policies and implementation of mitigation measures provided in this EIR, the proposed Project would have a ***less than significant*** impact with regards to this environmental issue.

CONCLUSIONS

The Phase I ESA for the Project site has revealed no evidence of a RECs, HRECs, or CRECs in connection with the Project site. Nevertheless, the Phase I ESA has identified potential environmental concerns that should be evaluated further prior to ground disturbance. Based on the conclusions of the Phase I ESA, areas where agricultural activities occurred historically and areas where the petroleum-containing waste were located would require soil sampling to assess the soils in these areas. Additionally, according to the Phase I ESA, an abandoned water well is located onsite and the proper well abandonment permit would be obtained.

Implementation of the following mitigation measures will be required to ensure these impacts are ***less than significant***.

MITIGATION MEASURE(S)

Mitigation Measure 3.8-1: *Prior to issuance of a building permit for the Project site, the Project applicant shall hire a qualified consultant to perform additional soil and site testing. The following areas of the Project site have already been deemed to have potentially hazardous conditions present:*

- *Petroleum: The eastern portion of the Project site where several drums of waste oil, oil, oil filters and paint were previously dumped and impacted the soil.*
- *Agrichemicals: The portions of the Project site which were previously used for agricultural uses.*

The intent of the additional testing is to investigate whether soils contain hazardous materials, including petroleum products or agrichemicals (including pesticides, herbicides, diesel, petrochemicals, etc.).

A soil sampling and analysis workplan shall be submitted for approval the San Joaquin County Environmental Health Department prior to the work. The sampling and analysis plan shall meet the requirements of the Department of Toxic Substances Control Interim Guidance for Sampling Agricultural Properties (2008), and the County Department of Environmental Resources Recommended Soil and Groundwater Sampling for Underground Tank Investigations (2013).

If the sampling results indicate the presence of agrichemicals that exceed commercial screening levels, a removal action workplan shall be prepared in coordination with San Joaquin County Environmental Health Department. The removal action workplan shall include a detailed engineering plan for conducting the removal action, a description of the onsite contamination, the goals to be achieved by the removal action, and any alternative removal options that were considered and rejected and the basis for that rejection. A no further action letter shall be issued by San Joaquin County Environmental Health Department upon completion of the removal action. The removal action shall be deemed complete when the confirmation samples exhibit concentrations below the commercial screening levels, which will be established by the agencies.

Mitigation Measure 3.8-2*: Prior to bringing hazardous materials onsite, the applicant shall submit a Hazardous Materials Business Plan (HMBP) to the San Joaquin County Environmental Health Department (CUPA) for review and approval. If during the construction process the applicant or any subcontractors generates hazardous waste, the applicant must register with the CUPA as a generator of hazardous waste, obtain an EPA ID# and accumulate, ship and dispose of the hazardous waste per Health and Safety Code Ch. 6.5. (California Hazardous Waste Control Law).*

Mitigation Measure 3.8-3*: Prior to initiation of any ground disturbance activities within 50 feet of a well, the applicant shall hire a licensed well contractor to obtain a well destruction permit from San Joaquin County Environmental Health Department, and properly abandon and destruct the onsite wells, pursuant to review and approval of the City Engineer and the San Joaquin County Environmental Health Department.*

Impact 3.8-2: Potential to 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)

As noted above, implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The Phase I site plan for the proposed Project is shown in Figure 2.0-7 (in Chapter 2.0, Project Description) and the Phase II site plan for the proposed Project is shown in Figure 2.0-8 (in Chapter 2.0, Project Description).

The majority of the types of businesses proposed by the Project are not anticipated to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste. However, the fueling facilities would emit gasoline vapors. Gasoline vapors contain a number of toxic chemicals, notably benzene, a carcinogen.

There are no schools located within ¼-mile of the Project site. The nearest school, Discovery Challenge Academy, is located approximately 0.79 miles east of the eastern Project site boundary. Therefore, the proposed Project would have a ***less than significant*** impact with regards to this environmental issue.

Impact 3.8-3: Potential to result in impacts from being included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. (Less than Significant)

The Phase I ESA on the Project Area included a site reconnaissance, interviews, historical land use research, and database research. The Project Area is not on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Implementation of the proposed Project would have a ***less than significant*** impact with regards to this environmental issue.

Impact 3.8-4: Potential for the Project to result in a safety hazard or excessive noise an airport for people residing or working in the Project area. (Less than Significant)

There are no documented public airports or public use airports within close proximity to the Project Area. The nearest airport, the Stockton Metropolitan Airport, is located approximately 3.48 miles northeast of the Project site. The Project site is not located within the Safety Zones or Noise Exposure Contours for this airport. Implementation of the proposed Project would have a ***less than significant*** impact with regards to this environmental issue.

Impact 3.8-5: Potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. (Less than Significant)

The San Joaquin County Office of Emergency Services (OES) maintains an Emergency Operations Plan (EOP) that serves as the official Emergency Plan for San Joaquin County. The EOP is based on the National Incident Management System and its component parts, along with the California Standardized Emergency Management System (SEMS), including the five functional areas of incident or event management, operational coordination, planning, logistical support, and finance/administration support. The EOP serves as the basis for response as well as recovery efforts and activities within the County.

The EOP also identifies Emergency Support Functions (ESFs) that represent core emergency response categories performed by agencies and jurisdictions with primary and supporting responsibilities within San Joaquin County. These may include public and non-government organizations. These Emergency Support Functions are based on the State of California's Emergency Function Annexes (EFs) and the Federal Emergency Support Function Annexes (ESFs).

The County OES also prepared a Hazardous Materials Area Plan (Chapter 4 of Division 2, Title 19, Article 3, §2720-2728 of the California Code of Regulations) and (California Health and Safety Code, Division 20, Chapter 6.95, Section 25503.5) that describes the hazardous materials response system developed to protect public health, prevent environmental damage and ensure proper use and disposal of hazardous materials. The plan establishes effective response capabilities to contain and control releases, establishes oversight of long-term cleanup and mitigation of residual releases, and integrates multi-jurisdiction and agency coordination. This plan is implemented by the San Joaquin County Environmental Health Department.

The San Joaquin County Environmental Health Department also maintains a Hazardous Materials Business Plan (HMBP). The HMBP describes agency roles, strategies and processes for responding to emergencies involving hazardous materials.

In San Joaquin County, all major roads are available for evacuation, depending on the location and type of emergency that arises. Interstate 5, 205, 580 and Highways 99, 12, 88, 4, 120, 132, and 26 are the major transportation routes through the County. Interstate 5 and Highway 99 run north and south, while Highways 4, 12, 26, 88, 120, 132, and Interstates 205 and 580 are east and west. These major highway/freeway routes would be highly utilized by both County residents and tourists as possible evacuation routes in the event of an emergency. The proposed Project does not include any actions that would impair or physically interfere with any of San Joaquin County's emergency plans or evacuation routes. Future Project uses will have access to the County resources that establish protocols for safe use, handling and transport of hazardous materials. Construction activities are not expected to result in any unknown significant road closures, traffic detours, or congestion that could hinder the emergency vehicle access or evacuation in the event of an emergency. Implementation of the proposed Project would have a ***less than significant*** impact with regards to this environmental issue.

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This section describes the regulatory setting, regional hydrology and water quality, impacts that are likely to result from project implementation, and measures to reduce potential impacts to water quality. This section is based in part on the following documents, reports and studies: *City of Lathrop General Plan* (City of Lathrop, 2022), *Draft Environmental Impact Report for the Lathrop General Plan Update* (City of Lathrop, 2022), *Tracy Subbasin Groundwater Sustainability Plan* (2021), *2020 Urban Water Management Plan* (2021), *Water System Master Plan* (2018), *California's Groundwater Bulletin 118, San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin* (DWR, 2006), *California's Groundwater* (DWR, 2003), and *Web Soil Survey* (NRCS, 2023).

Comments were received during the public review period or scoping meeting for the Notice of Preparation regarding this topic from the Central Valley Regional Water Quality Control Board (RWQCB) (January 20, 2023) and the California Department of Transportation (Caltrans) (January 19, 2023). Each of the comments related to this topic are addressed within this section. Full comments received are included in Appendix A.

3.9.1 ENVIRONMENTAL SETTING

REGIONAL HYDROLOGY

Lathrop is located in the San Joaquin River watershed. The San Joaquin River is about 300 miles long. It begins in the Sierra Nevada mountain range on California's eastern border. The river runs down the western slope of the Sierra and flows roughly northwest through the Central Valley, to where it meets the Sacramento River at the Sacramento-San Joaquin Delta, a 1,000-square-mile maze of channels and islands that drains more than 40 percent of the state's lands (SJRGA 2013).

Because the Central Valley receives relatively little rainfall (12 to 17 inches a year, falling mostly October through March), snowmelt runoff from the mountains is the main source of fresh water in the San Joaquin River. Over its 300-mile length, the San Joaquin River is fed by many other streams and rivers, most notably the Stanislaus, Tuolumne, and Merced Rivers.

Most of the surface water in the upper San Joaquin River is stored and diverted at Millerton Lakes' Friant Dam, near Fresno. From Friant Dam, water is pumped north through the Madera Canal and south through the Friant-Kern canal to irrigation districts and other water retailers, which then deliver the water directly to the end users in the southern portion of the watershed.

In the central and northern portions of the watershed, many agricultural and municipal users receive water from irrigation districts, such as the Modesto, Merced, Oakdale, South San Joaquin and Turlock Irrigation Districts. That water is provided through diversions from rivers that are tributary to the San Joaquin, such as the Mokelumne, Stanislaus, Tuolumne and Merced Rivers.

In an average year, about 1.5 million acre-feet of water is diverted from the San Joaquin River at Friant Dam, leaving little flow in the river until the Merced River joins the San Joaquin northwest of the City of Merced. Additional water also reaches the river via flows returning to the river from municipal wastewater treatment plants, as well as urban and agricultural runoff. The rest of the

area's water supply needs are met by importing water from northern California (via the Central Valley Project) and by pumping water from the groundwater basin (SJRGA 2013).

CLIMATE

Lathrop has an inland Mediterranean climate with warm, dry summers and cooler winters. The average daily maximum temperature in the Basin is 65 degrees Fahrenheit (°F), with average temperature highs of 95 °F in July. Average daily minimum temperature is 48 °F, with average temperature lows of 45 °F in January. Normal rainfall level is approximately 9 inches per year, and occurs mainly in the winter months from November to April. Thunderstorms occur on approximately three to four days in the spring, on average.

Lathrop has warm, dry days and relatively cool nights, with clear skies and limited rainfall. Winters are mild with light rains and frequent heavy fog from December to January. In summer, high temperatures often exceed 100 degrees, with averages in the low 90's in the northern valley and the high 90's in the southern valley. Summer low temperatures average in the high 50's in the northern valley and the upper 60's in the southern valley. Lathrop receives approximately 20 inches of rain per year.

WATERSHEDS

A watershed is a region that is bound by a divide that drains to a common watercourse or body of water. Watersheds serve an important biological function, oftentimes supporting an abundance of aquatic and terrestrial wildlife including special status species and anadromous and native local fisheries. Watersheds provide conditions necessary for riparian habitat.

The State uses a hierarchical naming and numbering convention to define watershed areas for management purposes. This means that boundaries are defined according to size and topography, with multiple sub-watersheds within larger watersheds. Table 3.9-1 shows the primary watershed classification levels used by the State of California. The second column indicates the approximate size that a watershed area may be within a particular classification level, although variation in size is common.

TABLE 3.9-1: STATE OF CALIFORNIA WATERSHED HIERARCHY NAMING CONVENTION

WATERSHED LEVEL	*APPROXIMATE SQUARE MILES (ACRES)*	*DESCRIPTION*
Hydrologic Region (HR)	12,735 (8,150,000)	Defined by large-scale topographic and geologic considerations. The State of California is divided into ten HRs.
Hydrologic Unit (HU)	672 (430,000)	Defined by surface drainage; may include a major river watershed, groundwater basin, or closed drainage, among others.
Hydrologic Area (HA)	244 (156,000)	Major subdivisions of hydrologic units, such as by major tributaries, groundwater attributes, or stream components.
Hydrologic Sub-Area (HSA)	195 (125,000)	A major segment of an HA with significant geographical characteristics or hydrological homogeneity.

SOURCE: CALWATER, CALIFORNIA INTERAGENCY WATERSHED MAPPING COMMITTEE, 2008.

Hydrologic Region

San Joaquin County is located in the San Joaquin River Hydrological Region. The San Joaquin River is the principal river of the region, and all other streams of the region are tributary to it. The Mokelumne River and its tributary the Cosumnes River originate in the central Sierra Nevada, along with the more southerly Stanislaus and Tuolumne rivers. The Merced River flows from the south-central Sierra Nevada and enters the San Joaquin near the City of Newman. The Chowchilla and Fresno rivers also originate in the Sierra south of the Merced River and trend westward toward the San Joaquin River. Creeks originating in the Coast Range and draining eastward into the San Joaquin River include Del Puerto Creek, Orestimba Creek, and Panoche Creek. Del Puerto Creek enters the San Joaquin near the City of Patterson, and Orestimba Creek enters north of the City of Newman. During flood years, Panoche Creek may enter the San Joaquin River or the Fresno Slough near the town of Mendota. The King's River is a stream of the Tulare Lake Hydrologic Region, but in flood years it may contribute to the San Joaquin River, flowing northward through the James Bypass and Fresno Slough to enter near the City of Mendota. The Mud, Salt, Berrenda, and Ash Sloughs also add to the San Joaquin River, and numerous lesser streams and creeks also enter the system, originating in both the Sierra Nevada and the Coast Range. The entire San Joaquin River system drains northwesterly through the Delta to Suisun Bay (DWR 2013, pg. SJR-5).

Local Watersheds (Hydrologic Sub-Areas)

Within the San Joaquin River Hydrological Region, the Planning Area is located in the Upper Old River, Oakwood Lake-San Joaquin River, and Town of French Camp-San Joaquin River watersheds as shown on Figure 3.9-1.

LOCAL DRAINAGE

The City provides and maintains a system of storm drains, detention basins, and pumping facilities as well as monitoring and control of the operations of the storm drain system. Additionally, the City enforces storm drain regulations established by the US EPA and the State of California.

The City of Lathrop's storm drainage collection system uses pipelines, surface channels and, in some locations, detention basins that store peak flows to direct drainage to the San Joaquin River. The City's documented existing storm drain infrastructure includes approximately 916 inlets, 691 manholes, 21 pump stations, 4 outfalls to the San Joaquin River, 13 detention basins, and 36 miles of storm drain (J.B. Anderson, 2016).

STORMWATER QUALITY

Potential hazards to surface water quality include the following nonpoint pollution problems: high turbidity from sediment resulting from erosion of improperly graded construction projects, concentration of nitrates and dissolved solids from agriculture or surfacing septic tank failures, contaminated street and lawn run-off from urban areas, and warm water drainage discharges into cold water streams.

The most critical period for surface water quality is following a rainstorm which produces significant amounts of drainage runoff into streams at low flow, resulting in poor dilution of contaminates in the low flowing stream. Such conditions are most frequent during the fall at the beginning of the rainy season when stream flows are near their lowest annual levels. Besides the greases, oils, pesticides, litter, and organic matter associated with such runoff, heavy metals such as copper, zinc, and cadmium can cause considerable harm to aquatic organisms when introduced to streams in low flow conditions.

Urban stormwater runoff was managed as a non-point discharge (a source not readily identifiable) under the Federal Water Pollution Control Amendments of 1972 (PL 92-500, Section 208) until the mid-1980's. However, since then, the Federal Environmental Protection Agency has continued to develop implementing rules which categorize urban runoff as a point source (an identifiable source) subject to National Pollution Discharge Elimination System (NPDES) permits. Rules now affect medium and large urban areas, and further rulemaking is expected as programs are developed to meet requirements of Federal water pollution control laws.

Surface water pollution is also caused by erosion. Excessive and improperly managed grading, vegetation removal, quarrying, logging, and agricultural practices all lead to increased erosion of exposed earth and sedimentation of watercourses during rainy periods. In slower moving water bodies these same factors often cause a buildup of siltation, which ultimately reduces the capacity of the water system to percolate and recharge groundwater basins, as well as adversely affecting both aquatic resources and flood control efforts.

303(d) Impaired Water Bodies

Water quality in Lathrop is governed by the CVRWQCB, which set water quality standards in their Water Quality Control Plan for the respective basins (Basin Plans). The Basin Plans identify beneficial uses for surface water and groundwater and establish water quality objectives to attain those beneficial uses.

Section 303(d) of the federal CWA requires States to identify waters that do not meet water quality standards or objectives and thus, are considered "impaired." Once listed, Section 303(d) mandates prioritization and development of a Total Maximum Daily Load (TMDL). The TMDL is a tool that establishes the allowable loadings or other quantifiable parameters for a waterbody and thereby the basis for the States to establish water quality-based controls. The purpose of TMDLs is to ensure that beneficial uses are restored and that water quality objectives are achieved.

According to the California Water Quality Control Monitoring Council, which is part of California Environmental Protection Agency, Natural Resources, there are many areas within the San Joaquin County which are considered Section 303(d) impaired waterbodies. Those areas in the city and in the regional vicinity of the Planning Area that are impaired are referred to as Delta Waterways (Southern Portion) by the Water Quality Control Monitoring Council. This includes 3,125 acres listed as early as 1996 for Chlorpyrifos (Agriculture, Urban Runoff/Storm Sewers), DDT (Agriculture), Diazinon (Agriculture, Urban Runoff/Storm Sewers), Electrical Conductivity (Agriculture), Group A

Pesticides (Agriculture), Invasive Species (Source Unknown), Mercury (Resource Extraction), and Unknown Toxicity (Source Unknown).

The City of Lathrop, in collaboration with San Joaquin County, Tracy. Lodi, Manteca, and Patterson prepared a Multi-Agency Post-Construction Stormwater Standards Manual to provide consistent guidance for municipal workers, developers and builders in implementing the requirements under the Statewide Small MS4 NPDES permit (2013-0001-DWQ).

Storm water runoff may play a role in the water quality impairments described above. Runoff that occurs as overland flow across yards, driveways, and public streets is intercepted by the storm water drainage system and conveyed to local drainages before eventually being routed to the Pacific. This storm water can carry pollutants that can enter the local waterways and result in the types of water quality impairments described above. Common sources of storm water pollution in the city include litter, trash, pet waste, paint residue, organic material (yard waste), fertilizers, pesticides, sediments, construction debris, metals from automobile brake pad dust, air pollutants that settle on the ground or attach to rainwater, cooking grease, illegally dumped motor oil, and other harmful fluids.

Potential hazards to surface water quality include the following nonpoint pollution problems: high turbidity from sediment resulting from erosion of improperly graded construction projects, concentration of nitrates and dissolved solids from agriculture or surfacing septic tank failures, contaminated street and lawn run-off from urban areas, and warm water drainage discharges into cold water streams.

The most critical period for surface water quality is following a rainstorm which produces significant amounts of drainage runoff into streams at low flow, resulting in poor dilution of contaminates in the low flowing stream. Such conditions are most frequent during the fall at the beginning of the rainy season when stream flows are near their lowest annual levels. Besides the greases, oils, pesticides, litter, and organic matter associated with such runoff, heavy metals such as copper, zinc, and cadmium can cause considerable harm to aquatic organisms when introduced to streams in low flow conditions.

Urban stormwater runoff was managed as a non-point discharge (a source not readily identifiable) under the Federal Water Pollution Control Amendments of 1972 (PL 92-500, Section 208) until the mid-1980's. However, since then, the Federal Environmental Protection Agency has continued to develop implementing rules which categorize urban runoff as a point source (an identifiable source) subject to NPDES permits. Rules now affect medium and large urban areas, and further rulemaking is expected as programs are developed to meet requirements of Federal water pollution control laws.

Surface water pollution is also caused by erosion. Excessive and improperly managed grading, vegetation removal, quarrying, logging, and agricultural practices all lead to increased erosion of exposed earth and sedimentation of watercourses during rainy periods. In slower moving water bodies these same factors often cause a buildup of siltation, which ultimately reduces the capacity

of the water system to percolate and recharge groundwater basins, as well as adversely affecting both aquatic resources and flood control efforts.

GROUNDWATER

In February, 2019 DWR approved a Basin Boundary Modification Request that incorporates all of the City of Lathrop in the Tracy Subbasin and removes the City from the Eastern San Joaquin Subbasin. The City has coordinated with the Tracy Subbasin Groundwater Sustainability Agencies (GSA) to develop a Groundwater Sustainability Plan (GSP) that needs to be adopted and submitted to DWR by January 31, 2022. The GSP was adopted by the City of Lathrop GSA on December 13, 2021. The Tracy Subbasin is not adjudicated, nor are any of the neighboring subbasins.

The Tracy Subbasin encompasses an area of about 238,429 acres (370 square miles) in San Joaquin and Alameda counties, primarily between the eastern extent of the Coast Ranges on the south and the San Joaquin River on the east. The Subbasin is bounded on the north and east by the San Joaquin River, on the south by the San Joaquin-Stanislaus counties border, and on the west by the aerial extent of sedimentary deposits bounded by the Coastal Ranges. The San Joaquin, Old, and Middle rivers are the principal rivers within or bordering the subbasin.

Most of the groundwater pumping occurs in the area south of Old River and east of the San Joaquin River within Lathrop. North of the Old River, surface water from the Sacramento-San Joaquin Delta, is used to meet most of the water demand. The bottom of the Subbasin is the base of fresh water which is positioned at the top of the marine sediments that contain saline water. In the Tracy Subbasin, the base of the freshwater ranges from about 400 feet to 2,000 feet beneath the Subbasin. Two principal aquifers are located with the Subbasin, an Upper confined to semi-confined aquifer and a Lower confined aquifer that are separated by a layer of clay. The Upper and Lower aquifers merge where there is an absence of the clay layer, near the southwestern portion of the Subbasin. These layers also merge north of the Old River in the northern portion of the Subbasin.

The City of Lathrop encompasses approximately 14,400 (22 square miles) of the Tracy Subbasin. Municipal water sources include groundwater pumped by five wells and treated surface water purchased from the Southern San Joaquin Irrigation District (SSJID). The surface water supplies from SSJID helps the City reduce its use of groundwater. The average water demand of the City is about 9,000 acre-feet per year (AFY) and the future buildout demand for the City is estimated at 20,000 AFY. The City's total projected groundwater supply was approximately 44 percent or 6,253 AFY in 2020. This projection is expected to increase to 7,060 AFY (47 percent) in 2028 in which the supply stays constant as the City anticipates to increase its surface water supply through buildout.

LOCAL SETTING

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 2.0-1 and 2.0-2 in Chapter 2.0 show the Project's regional location and vicinity.

The Project Area topography ranges greatly in elevation from approximately 8 to 21 feet above sea level. The high area is located in the eastern portion of the site while the low area is located in the western portion of the site. The majority of the Project Area is generally characterized as flat.

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), a foundation from a previously demolished abandoned structure, and impervious area. The footprint of the abandoned structure was approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 1,000 feet to the northeast of the Project site. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 2.0-4.

FLOODPLAIN MAPPING

FEMA Flood Zones

Federal Emergency Management Agency (FEMA) mapping provides important guidance for the City in planning for flooding events and regulating development within identified flood hazard areas. FEMA's National Flood Insurance Program (NFIP) is intended to encourage State and local governments to adopt responsible floodplain management programs and flood measures. As part of the program, the NFIP defines floodplain and floodway boundaries that are shown on Flood Insurance Rate Maps (FIRMs). The FEMA FIRM for the Project site is shown on Figure 3.9-2.

Areas that are subject to flooding are indicated by a series of alphabetical symbols, indicating anticipated exposure to flood events:

- **Zone A:** Subject to 100-year flooding with no base flood elevation determined. Identified as an area that has a one percent chance of being flooded in any given year.
- **Zone AE:** Subject to 100-year flooding with base flood elevations determined.

- **Zone AH:** Subject to 100-year flooding with flood depths between one- and three-feet being areas of ponding with base flood elevations determined.
- **500-year Flood Zone:** Subject to 500-year flooding. Identified as an area that has a 0.2 percent chance of being flooded in a given year.
- **Zone X, Area with Reduced Risk Due to Levee**: This zone includes areas that would be flooded if a 500-year flood occurred but has a reduced risk of flooding due to levee protection.

The Project site is not located in the 500-year or 100-year flood zones. As shown in Figure 3.9-2, the Project site is located in an area with reduced flood risk due to levee (Zone X).

SB 5 Flood Zones

Both State policy and recently enacted State legislation (Senate Bill 5) call for 200-year (0.5% annual chance) flood protection to be the minimum level of protection for urban and urbanizing areas in the Central Valley. Senate Bill 5 (SB5) requires that the 200-year protection be consistent with criteria used or developed by the Department of Water Resources. SB 5 requires all urban and urbanizing areas in the Sacramento and San Joaquin Valleys to achieve 200-year Urban Level of flood protection (or a finding of adequate progress toward 200-year flood protection) in order to approve development. The 200-year floodplain for the Project site, as mapped for the City of Lathrop and San Joaquin County, is also shown on Figure 3.9-2. As shown in the figure, the entire Project site is located in the 200-year floodplain.

RD 17 created a Joint Powers Authority (JPA) that includes San Joaquin County, Stockton, Manteca, and Lathrop to issue bonds to fund the local share of Phase 1 through 3 Improvements to the RD 17 levees. Lathrop is working with RD 17 to update that JPA to fund the local share of the needed Urban Level of Protection (ULOP) improvements to the RD 17 levees, to adopt fee programs and/or exactions paid and advanced from property owners in areas of entitled and planned development within RD17, and a new Enhanced Infrastructure Financing District. As of February 2016, Lathrop and Manteca have funded the required Urban Levee Design Criteria analysis of the RD 17 levees, identified the 200-year floodplain, calculated an estimated cost to provide the ULOP improvements, and requested State funds for the State share of this work. Lathrop will continue to work with all public agencies within RD 17 to provide for final design and construction of ULOP improvements that will allow findings of Adequate Progress toward providing ULOP as the improvements are constructed.

The San Joaquin Area Flood Control Agency (SJAFCA) is a Joint Powers Authority that was created in May 1995 for the purpose of addressing flood protection for the City of Stockton and surrounding County. On November, 16, 2017, the Joint Exercise of Powers Agreement was expanded to include the Cities of Lathrop and Manteca. SJAFCA coordinates and partners with State and Federal agencies to address FEMA's Flood Insurance Rate Maps, levee standards, and flood protection issues.

Dam Failure

The Project Area is located within the dam failure inundation area for the New Melones Dam, Don Pedro Dam, SanLuis Reservoir Dam, and New Exchequer Dam. Potential inundation from the these dams are shown in Figure 3.9-3. Dam failure is generally a result of structural instability caused by improper design or construction, instability resulting from seismic shaking, or overtopping and erosion of the dam. Larger dams that are higher than 25 feet or with storage capacities over 50 AF of water are regulated by the California Dam Safety Act, which is implemented by the California Department of Water Resources, Division of Safety of Dams (DSD). The DSD is responsible for inspecting and monitoring these dams. The Act also requires that dam owners submit to the California Office of Emergency Services inundation maps for dams that would cause significant loss of life or personal injury as a result of dam failure. The County Office of Emergency Services is responsible for developing, maintaining, and implementing the Local Hazard Mitigation Plan that designates evacuation plans, the direction of floodwaters, and provides emergency information.

Stormwater Quality

Potential hazards to surface water quality include the following nonpoint pollution problems: high turbidity from sediment resulting from erosion of improperly graded construction projects, concentration of nitrates and dissolved solids from agriculture or surfacing septic tank failures, contaminated street and lawn run-off from urban areas, and warm water drainage discharges into cold water streams.

The most critical period for surface water quality is following a rainstorm which produces significant amounts of drainage runoff into streams at low flow, resulting in poor dilution of contaminates in the low flowing stream. Such conditions are most frequent during the fall at the beginning of the rainy season when stream flows are near their lowest annual levels. Besides the greases, oils, pesticides, litter, and organic matter associated with such runoff, heavy metals such as copper, zinc, and cadmium can cause considerable harm to aquatic organisms when introduced to streams in low flow conditions.

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Surface water pollution is also caused by erosion. Excessive and improperly managed grading, vegetation removal, quarrying, logging, and agricultural practices all lead to increased erosion of exposed earth and sedimentation of watercourses during rainy periods. In slower moving water bodies these same factors often cause a buildup of siltation, which ultimately reduces the capacity of the water system to percolate and recharge groundwater basins, as well as adversely affecting both aquatic resources and flood control efforts.

303(D) IMPAIRED WATER BODIES

Section 303(d) of the federal Clean Water Act requires States to identify waters that do not meet water quality standards or objectives and thus, are considered "impaired." Once listed, Section 303(d) mandates prioritization and development of a Total Maximum Daily Load (TMDL). The TMDL is a tool that establishes the allowable loadings or other quantifiable parameters for a waterbody and thereby the basis for the States to establish water quality-based controls. The purpose of TMDLs is to ensure that beneficial uses are restored and that water quality objectives are achieved.

According to the California Water Quality Control Monitoring Council, which is part of California Environmental Protection Agency, Natural Resources, there are many areas within the San Joaquin County which are considered Section 303(d) impaired waterbodies. Those areas in the city and in the regional vicinity of the Planning Area that are impaired are referred as Delta Waterways (Southern Portion) by the Water Quality Control Monitoring Council. This includes 3,125 acres listed as early as 1996 for Chlorpyrifos (Agriculture, Urban Runoff/Storm Sewers), DDT (Agriculture), Diazinon (Agriculture, Urban Runoff/Storm Sewers), Electrical Conductivity (Agriculture), Group A Pesticides (Agriculture), Invasive Species (Source Unknown), Mercury (Resource Extraction), and Unknown Toxicity (Source Unknown).

3.9.2 REGULATORY SETTING

There are a number of regulatory agencies whose responsibility includes the oversight of the water resources of the state and nation including the Federal Emergency Management Agency, the US Environmental Protection Agency, the State Water Resources Board, and the Regional Water Quality Control Board. The following is an overview of the federal, state and local regulations that are applicable to the proposed Project.

FEDERAL

Clean Water Act

The CWA, initially passed in 1972, regulates the discharge of pollutants into watersheds throughout the nation. Section 402(p) of the act establishes a framework for regulating municipal and industrial stormwater discharges under the National Pollutant Discharge Elimination System (NPDES) Program. Section 402(p) requires that stormwater associated with industrial activity that discharges either directly to surface waters or indirectly through municipal separate storm sewers must be regulated by an NPDES permit.

The CWA establishes the basic structure for regulating the discharges of pollutants into the waters of the United States and gives the US Environmental Protection Agency (EPA) the authority to implement pollution control programs. The statute's goal is to regulate all discharges into the nation's waters and to restore, maintain, and preserve the integrity of those waters. The CWA sets water quality standards for all contaminants in surface waters and mandates permits for wastewater and stormwater discharges.

The CWA also requires states to establish site-specific water quality standards for navigable bodies of water and regulates other activities that affect water quality, such as dredging and the filling of wetlands. The following CWA sections assist in ensuring water quality for the water of the United States:

CWA Section 208 requires the use of best management practices (BMPs) to control the discharge of pollutants in stormwater during construction CWA Section 303(d) requires the creation of a list of impaired water bodies by states, territories, and authorized tribes; evaluation of lawful activities that may impact impaired water bodies, and preparation of plans to improve the quality of these water bodies. CWA Section 303(d) also establishes TMDLs, which is the maximum amount of a pollutant that a water body can receive and still safely meet water quality standards CWA Section 404 authorizes the US Army Corps of Engineers to require permits that will discharge dredge or fill materials into waters in the US, including wetlands.

In California, the EPA has designated the SWRCB and its nine RWQCBs with the authority to identify beneficial uses and adopt applicable water quality objectives.

The SWRCB is responsible for implementing the CWA and does so through issuing NPDES permits to cities and counties through regional water quality control boards. Federal regulations allow two permitting options for storm water discharges (individual permits and general permits).

Federal Emergency Management Agency

FEMA operates the NFIP. Participants in the NFIP must satisfy certain mandated floodplain management criteria. The National Flood Insurance Act of 1968 has adopted as a desired level of protection, an expectation that developments should be protected from floodwater damage of the Intermediate Regional Flood (IRF). The IRF is defined as a flood that has an average frequency of occurrence on the order of once in 100 years, although such a flood may occur in any given year. Communities are occasionally audited by the California Department of Water Resources to insure the proper implementation of FEMA floodplain management regulations.

Flood Control Act

The Flood Control Act (1917) established survey and cost estimate requirements for flood hazards in the Sacramento Valley. All levees and structures constructed per the Act were to be maintained locally but controlled federally. All rights of way necessary for the construction of flood control infrastructure were to be provided to the Federal government at no cost.

Federal involvement in the construction of flood control infrastructure, primarily dams and levees, became more pronounced upon passage of the Flood Control Act of 1936.

Flood Disaster Protection Act (FDPA)

The FDPA of 1973 was a response to the shortcomings of the NFIP, which were experienced during the flood season of 1972. The FDPA prohibited Federal assistance, including acquisition, construction, and financial assistance, within delineated floodplains in non-participating NFIP

communities. Furthermore, all Federal agencies and/or federally insured and federally regulated lenders must require flood insurance for all acquisitions or developments in designated Special Flood Hazard Areas (SFHAs) in communities that participate in the NFIP.

Improvements, construction, and developments within SFHAs are generally subject to the following standards:

- All new construction and substantial improvements of residential buildings must have the lowest floor (including basement) elevated to or above the base flood elevation (BFE).
- All new construction and substantial improvements of non-residential buildings must either have the lowest floor (including basement) elevated to or above the BFE or dry-floodproofed to the BFE.
- Buildings can be elevated to or above the BFE using fill, or they can be elevated on extended foundation walls or other enclosure walls, on piles, or on columns.
- Extended foundation or other enclosure walls must be designed and constructed to withstand hydrostatic pressure and be constructed with flood-resistant materials and contain openings that will permit the automatic entry and exit of floodwaters. Any enclosed area below the BFE can only be used for the parking of vehicles, building access, or storage.

National Flood Insurance Program (NFIP)

Per the National Flood Insurance Act of 1968, the NFIP has three fundamental purposes: *Better indemnify individuals for flood losses through insurance; Reduce future flood damages through State and community floodplain management regulations; and Reduce Federal expenditures for disaster assistance and flood control.*

While the Act provided for subsidized flood insurance for existing structures, the provision of flood insurance by FEMA became contingent on the adoption of floodplain regulations at the local level.

National Pollutant Discharge Elimination System

NPDES permits are required for discharges to navigable waters of the United States, which includes any discharge to surface waters, including lakes, rivers, streams, bays, oceans, dry stream beds, wetlands, and storm sewers that are tributary to any surface water body. NPDES permits are issued under the Federal CWA, Title IV, Permits and Licenses, Section 402 (33 USC 466 et seq.)

The RWQCB issues these permits in lieu of direct issuance by the Environmental Protection Agency, subject to review and approval by the EPA Regional Administrator (EPA Region 9). The terms of these NPDES permits implement pertinent provisions of the Federal CWA and the Act's implementing regulations, including pre-treatment, sludge management, effluent limitations for specific industries, and anti-degradation. In general, the discharge of pollutants is to be eliminated or reduced as much as practicable so as to achieve the CWA's goal of "fishable and swimmable" navigable (surface) waters. Technically, all NPDES permits issued by the RWQCB are also Waste Discharge Requirements issued under the authority of the CWA.

These NPDES permits regulate discharges from publicly owned treatment works, industrial discharges, stormwater runoff, dewatering operations, and groundwater cleanup discharges. NPDES permits are issued for five years or less and are therefore to be updated regularly. The rapid and dramatic population and urban growth in the Central Valley Region has caused a significant increase in NPDES permit applications for new waste discharges. To expedite the permit issuance process, the SWRCB has adopted several general NPDES permits, each of which regulates numerous discharges of similar types of wastes. The SWRCB has issued general permits for stormwater runoff from industrial and construction sites statewide. Stormwater discharges from industrial and construction activities in the Central Valley Region can be covered under these general permits, which are administered jointly by the SWRCB and RWQCB.

Individual projects in the City that disturb more than one acre would be required to obtain NPDES coverage under the California General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit). The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP) describing Best Management Practices (BMP) the discharger would use to prevent and retain storm water runoff. The SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a waterbody listed on the 303(d) list for sediment.

Rivers and Harbors Appropriation Act of 1899

One of the country's first environmental laws, this Act established a regulatory program to address activities that could affect navigation in Waters of the United States.

Water Pollution Control Act of 1972

The Water Pollution Control Act (WPCA) established a program to regulate activities that result in the discharge of pollutants to waters of the United States

STATE

California Fish and Wildlife Code

The California Department of Fish and Wildlife (CDFW) protects streams, water bodies, and riparian corridors through the streambed alteration agreement process under Section 1600 to 1616 of the California Fish and Game Code. The California Fish and Game Code establishes that "an entity may not substantially divert or obstruct the natural flow or substantially change the bed, channel or bank of any river, stream or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river stream, or lake" (Fish and Game Code Section 1602(a)) without notifying the CDFW, incorporating necessary mitigation and obtaining a streambed alteration agreement. The CDFWs jurisdiction extends to the top of banks and often includes the outer edge of riparian vegetation canopy cover.

California Code of Regulations

California Code of Regulations (CCR) Title 22, Chapter 15, Article 20 requires all public water systems to prepare a Consumer Confidence Report for distribution to its customers and to the Department of Health Services. The Consumer Confidence Report provides information regarding the quality of potable water provided by the water system. It includes information on the sources of the water, any detected contaminants in the water, the maximum contaminants levels set by regulation, violations and actions taken to correct them, and opportunities for public participation in decisions that may affect the quality of the water provided.

California Government Code

Relevant sections of the California Government Code are identified below.

SECTION 65302

Revised safety elements must include maps of any 200-year flood plains and levee protection zones within the Planning Area.

SECTION 65584.04

Any land having inadequate flood protection, as determined by FEMA or DWR, must be excluded from land identified as suitable for urban development within the planning area.

SECTION 8589.4

California Government Code §8589.4, commonly referred to as the Potential Flooding-Dam Inundation Act, requires owners of dams to prepare maps showing potential inundation areas in the event of dam failure. A dam failure inundation zone is different from a flood hazard zone under the National Flood Insurance Program (NFIP). NFIP flood zones are areas along streams or coasts where storm flooding is possible from a "100-year flood." In contrast, a dam failure inundation zone is the area downstream from a dam that could be flooded in the event of dam failure due to an earthquake or other catastrophe. Dam failure inundation maps are reviewed and approved by the California Office of Emergency Services (OES). Sellers of real estate within inundation zones are required to disclose this information to prospective buyers.

California Department of Health Services

The Department of Health Services, Division of Drinking Water and Environmental Management, oversees the Drinking Water Program. The Drinking Water Program regulates public water systems and certifies drinking water treatment and distribution operators. It provides support for small water systems and for improving their technical, managerial, and financial capacity. It provides subsidized funding for water system improvements under the State Revolving Fund ("SRF") and Proposition 50 programs. The Drinking Water Program also oversees water recycling projects, permits water treatment devices, supports and promotes water system security, and oversees the Drinking Water Treatment and Research Fund for MTBE and other oxygenates.

Consumer Confidence Report Requirements

California Code of Regulations (CCR) Title 22, Chapter 15, Article 20 requires all public water systems to prepare a Consumer Confidence Report for distribution to its customers and to the Department of Health Services. The Consumer Confidence Report provides information regarding the quality of potable water provided by the water system. It includes information on the sources of the water, any detected contaminants in the water, the maximum contaminant levels set by regulation, violations and actions taken to correct them, and opportunities for public participation in decisions that may affect the quality of the water provided.

California Water Code

California's primary statute governing water quality and water pollution issues with respect to both surface waters and groundwater is the Porter-Cologne Water Quality Control Act of 1970 (Division 7 of the California Water Code) (Porter-Cologne Act). The Porter-Cologne Act grants the SWRCB and each of the RWQCBs power to protect water quality and is the primary vehicle for implementation of California's responsibilities under the Federal CWA. The Porter-Cologne Act grants the SWRCB and the RWQCBs authority and responsibility to adopt plans and policies, to regulate discharges to surface and groundwater, to regulate waste disposal sites, and to require cleanup of discharges of hazardous materials and other pollutants. The Porter-Cologne Act also establishes reporting requirements for unintended discharges of any hazardous substance, sewage, or oil or petroleum product.

Each RWQCB must formulate and adopt a Water Quality Control Plan (Basin Plan) for its region. The regional plans are to conform to the policies set forth in the Porter-Cologne Act and established by the SWRCB in its State water policy. The Porter-Cologne Act also provides that a RWQCB may include within its regional plan water discharge prohibitions applicable to particular conditions, areas, or types of waste.

Assembly Bill 162

Assembly Bill (AB) 162 requires a general plan's land use element to identify and annually review those areas covered by the general plan that are subject to flooding as identified by flood plain mapping prepared by FEMA or DWR. The bill also requires, upon the next revision of the housing element, on or after January 1, 2009, the conservation element of the general plan to identify rivers, creeks, streams, flood corridors, riparian habitat, and land that may accommodate floodwater for purposes of groundwater recharge and stormwater management. By imposing new duties on local public officials, the bill creates a State-mandated local program.

This bill also requires, upon the next revision of the housing element, on or after January 1, 2009, the safety element to identify, among other things, information regarding flood hazards and to establish a set of comprehensive goals, policies, and objectives, based on specified information for the protection of the community from, among other things, the unreasonable risks of flooding.

Assembly Bill 70

AB 70 provides that a city or county may be required to contribute its fair and reasonable share of the property damage caused by a flood to the extent that it has increased the State's exposure to liability for property damage by unreasonably approving, as defined, new development in a previously undeveloped area, as defined, that is protected by a State flood control project, unless the city or county meets specified requirements.

Senate Bill 610 and Assembly Bill 901

The State Legislature passed SB 610 and AB 901 in 2001. Both measures modified the Urban Water Management Planning Act.

SB 610 requires additional information in an urban water management plan if groundwater is identified as a source of water available to an urban water supplier. It also requires that the plan include a description of all water supply projects and programs that may be undertaken to meet total projected water use. SB 610 requires a city or county that determines a project is subject to CEQA to identify any public water system that may supply water to the project and to request identified public water systems to prepare a specified water supply assessment. The assessment must include, among other information, an identification of existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and water received in prior years pursuant to these entitlements, rights, and contracts.

AB 901 requires an urban water management plan to include information, to the extent practicable, relating to the quality of existing sources of water available to an urban water supplier over given time periods. AB 901 also requires information on the manner in which water quality affects water management strategies and supply reliability. The bill requires a plan to describe plans to supplement a water source that may not be available at a consistent level of use, to the extent practicable. Additional findings and declarations relating to water quality are required.

Senate Bill 221

SB 221 adds Government Code Section 66455.3, requiring that the local water agency be sent a copy of any proposed residential subdivision of more than 500 dwelling units within five days of the subdivision application being accepted as complete for processing by the city or county. It also adds Government Code Section 66473.7, establishing detailed requirements for establishing whether a "sufficient water supply" exists to support any proposed residential subdivisions of more than 500 dwellings, including any such subdivision involving a development agreement. When approving a qualifying subdivision tentative map, the city or county must include a condition requiring availability of a sufficient water supply. The applicable public water system must provide proof of availability. If there is no public water system, the city or county must undertake the analysis described in Government Code Section 66473.7. The analysis must include consideration of effects on other users of water and groundwater.

State Updated Model Landscape Ordinance

Under AB 1881, the updated Model Landscape Ordinance requires cities and counties to adopt landscape water conservation ordinances by January 31, 2010 or to adopt a different ordinance that is at least as effective in conserving water as the updated Model Ordinance.

Water Quality Control Basin Plan

The Water Quality Control Plan for the Sacramento-San Joaquin River Basins (Basin Plan), amended by the CVRWQCB in 2018, identifies the beneficial uses of water bodies and provides water quality objectives and standards for waters of the Sacramento River and SJR basins, including the Delta.

State and federal laws mandate the protection of designated "beneficial uses" of water bodies. State law defines beneficial uses as "domestic; municipal; agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves" (Water Code Section 13050[f]). Additional protected beneficial uses of the SJR include groundwater recharge and freshwater replenishment.

State Water Resources Control Board Storm Water Strategy

The Storm Water Strategy is founded on the results of the Storm Water Strategic Initiative, which served to direct the State Water Board's role in storm water resources management and evolve the Storm Water Program by a) developing guiding principles to serve as the foundation of the storm water program, b) identifying issues that support or inhibit the program from aligning with the guiding principles, and c) proposing and prioritizing projects that the Water Boards could implement to address those issues.

The State Water Board staff created a strategy-based document called the Strategy to Optimize Management of Storm Water (STORMS). STORMS includes a program vision, missions, goals, objectives, projects, timelines, and consideration of the most effective integration of project outcomes into the Water Board's Storm Water Program.

REGIONAL

Tracy Subbasin Groundwater Sustainability Plan

The Sustainable Groundwater Management Act (SGMA) requires local GSAs in high- and medium-priority basins to develop and implement GSPs or to develop Alternatives to GSPs. GSPs provide a roadmap for how groundwater basins will reach long-term sustainability.

The City is located within the Tracy Subbasin as of February 2019 and has been in coordination with the GSA to develop a Groundwater Sustainability Plan (GSP). The GSP must be adopted and submitted to the DWR by January 31, 2022. The City's GSP was adopted by the City of Lathrop GSA in December 2021.

The GSP covers the entire Subbasin. The Subbasin encompasses an area of about 238,429 acres (370 square miles) in San Joaquin and Alameda counties, primarily between the eastern extent of the

Coast Ranges on the south and the San Joaquin River on the east. The Subbasin is bounded on the north and the east by the San Joaquin River, on the south by the San Joaquin-Stanislaus counties border, and on the west by the aerial extent of sedimentary deposits bounded by the Coastal Ranges. Six agencies filed with DWR to become GSAs to cover the entire Subbasin. DWR designated them as exclusive in 2016 and 2017. In 2018, the Subbasin boundaries were modified which resulted in the formation of the East Contra Costa Subbasin and inclusion of the City of Lathrop areas into the Tracy Subbasin. The six GSAs in the Subbasin are: Banta-Carbona Irrigation District; Byron-Bethany Irrigation District; City of Lathrop; City of Tracy; County of San Joaquin; and Stewart Tract.

Projects and management actions were selected by the GSAs for implementation to meet measurable objectives by 2042 and to maintain groundwater levels above minimum thresholds. The Subbasin Non-Delta Management Area is projected to have a deficit of about 700 AFY based on projected changes in the Subbasin including climate change forecasted for 2065. Assessing the deficit by principal aquifer has shown the Upper aquifer has a deficit of about 800 AFY while the Lower aquifer is in surplus by 100 AFY. Because the aquifers are so close to being in balance and within the uncertainty of the model, projects are proposed for both aquifers. The project selected is to augment water supplies to resolve chronic lowering of groundwater levels and change in storage in the Upper aquifer. Management actions have been selected to limit the potential to increase surface water depletion with additional benefits towards GDEs.

LOCAL

City of Lathrop General Plan

POLICIES: PUBLIC SAFETY ELEMENT

- PS-3.4: Evaluate Hazards. Require evaluation of potential flood hazards prior to approval of development projects to determine whether the proposed development is reasonably safe from flooding and consistent with California Department of Water Resources Urban Level of Flood Protection Criteria (ULOP). The City shall not approve the execution of a development agreement, a tentative map, or a parcel map for which a tentative map is not required, or a discretionary permit or other discretionary entitlement that would result in the construction of a new building, or construction that would result in an increase in allowed occupancy for an existing building, or issuance of a ministerial permit that would result in the construction of a new residence for property that is located within a 200-year flood hazard zone, unless the adequacy of flood protection as described in Government Code §65865.5(a), 65962(a), or 66474.5(a), has been demonstrated.
- PS-3.7: Mitigation. Require all development projects to demonstrate how storm water runoff will be detained or retained on-site, treated, and/or conveyed to the nearest drainage facility as part of the development review process. Project applicants shall demonstrate that project implementation would not result in increases in the peak flow runoff to adjacent lands or drainage facilities that would exceed the design capacity of the drainage facility or result in an increased potential for offsite flooding.

- PS-3.8: Construction Activities. Ensure that construction activities will not result in adverse impacts to existing flood control and drainage facilities, and adequate drainage and erosion control measures are provided during construction of new development.
- PS-3.9: Adequate Infrastructure. Maintain and regularly assess the status of local storm drainage infrastructure to ensure that the system is functioning property.

POLICIES: PUBLIC FACILITIES AND SERVICES ELEMENT

- PFS-4.1: Maintain Capacity. Maintain and improve storm drainage infrastructure and flood control facilities in order to protect the community from flood hazards.
- PFS-4.2: Regional Partnerships. Continue to work cooperatively with the San Joaquin Area Flood Control Agency and other outside agencies to meet SB-5 requirements to provide a 200-year Urban Level of Protection and other needs and priorities relative to storm drainage issues. Also, continue to participate with the San Joaquin Valley Stormwater Quality Partnership to meet objectives related to compliance with the City's Small MS4 Phase 2 permit.
- PFS-4.3: Maintenance Districts. Continue to fund the operation and maintenance of stormwater facilities and regulatory compliance through the creation of maintenance districts and/or other appropriate mechanisms that avoid burdening the City's finances.
- PFS-4.4: National Programs. Cooperate in regional programs to implement the National Pollutant Discharge Elimination System program.
- PFS-4.5: Development Review. Continue to require all development projects to:
    A. Demonstrate how storm water runoff will be detained or retained on-site and/or conveyed to the nearest drainage facility as part of the development review process and as required by the City's Small MS4 Phase 2 permit; and
    B. Analyze their drainage and stormwater conveyance impacts and either demonstrate that the City's existing infrastructure can accommodate increased stormwater flows, or make the necessary improvements to mitigate all potential impacts.
- PFS-4.6: Stormwater Runoff. Stormwater runoff may be directed towards permeable surfaces to the greatest extent feasible to allow for more percolation of stormwater into the ground.
- PFS-4.7: Stormwater Capture. Encourage the use of professionally designed stormwater capture methods to aid in the reuse of rainwater for non-potable uses in compliance with applicable State regulations.
- PFS-4.8: Stormwater Treatments. Promote Best Management Practices (BMPs) and Low Impact Development measures (LID) to treat stormwater before discharge from the site. The facilities shall be sized to meet regulatory requirements.
- PFS-4.9: Naturalized Stormwater Facilities. Maintain stormwater facilities in a naturalized condition where appropriate, incorporating recreational trails, parkway vegetation, and other amenities, minimizing grading, and ensuring that vegetation does not reduce channel capacity, and consistent with the Recreation and Resources Element.

- PFS-4.10: Dual-Use Detention Basins. Allow recreational uses in dual-use detention basins for parks, ball fields, and other uses where appropriate.

POLICIES: RECREATION AND RESOURCES ELEMENT

- RR-4.4: Natural Water Bodies and Drainage Systems. Limit the disturbance of natural water bodies and drainage systems in Lathrop by conserving natural open space areas, protecting channels, and minimizing the impacts from stormwater and urban runoff.
- RR-8.7: Groundwater Recharge. Promote the use of permeable surface materials and provide for ample areas of open space, including parks and greenways, and naturalized land, in order to decrease surface runoff and promote groundwater recharge.

ACTIONS: PUBLIC SAFETY ELEMENT

- PS-3g: Continue to review development projects to identify potential stormwater and drainage impacts and require new, unentitled development to include measures to ensure that off-site runoff is not increased during rain and flood events. As part of the development review process, require developers to prepare hydrological studies as necessary. Studies shall encompass the project site as well as the entire drainage area.

ACTIONS: PUBLIC FACILITIES AND SERVICES ELEMENT

- PFS-4d: Continue to review development projects to identify potential stormwater and drainage impacts and require development to include measures to ensure that off-site runoff is not increased beyond pre-development levels during rain and flood events.
- PFS-4e: Project designs should minimize drainage concentrations, minimize impervious coverage, utilize pervious paving materials, utilize low impact development (LID) strategies, and utilize Best Management Practices (BMPs) to reduce stormwater runoff.
- PFS-4f: Promote the use of LID strategies in new development and redevelopment projects, including but not limited to the use of canopy trees and shrubs, vegetated swales, and permeable paving.
- PFS-4g: Require new development to mitigate increases in stormwater peak flows and/or volume. Mitigation measures, such as LID strategies, should take into consideration impacts on adjoining lands in the City.

ACTIONS: RECREATION AND RESOURCES ELEMENT

- RR-4c: Require new development which has the potential to result in water quality impacts to the City's waterways and the local groundwater basin to implement all feasible mitigation measures to reduce impacts.

City of Lathrop Municipal Code

CHAPTER 12.28: PROTECTION OF WATER COURSES

Section 12.28.020: Rules and regulations.

A. It shall be unlawful for any person to interfere with, destroy or use in any manner whatsoever any levee, embankment, channel, dam, reservoir, rain or stream gauges, telephone line, piling; or other stream protection work constructed by the city or by any drainage district organized under the laws of the state, without having received a written permit therefor from the public works director, which permit shall be revocable whenever, in the opinion of the public works director the public interest and welfare require the revocation thereof. Application for the use of any levee, embankment, channel, dam or reservoir shall be made to the public works director, setting forth the particular use desired, and the purpose and duration thereof. The public works director shall investigate such applications and may impose such terms and conditions as may be necessary to insure the proper maintenance of the property for flood control and drainage purposes.

B. It shall be unlawful for any person to place on or cause to be placed in any drainage ditch, water course, channel or conduit, or upon any property over which the city or any drainage district has an easement for flood control or drainage purposes duly recorded in the office of the city clerk, any wires, fence, building or other structure, or any refuse, rubbish, tin cans or other matter that may impede, retard or change the direction of the flow of water in such drainage ditch, water course, channel or conduit, or that will catch or collect debris carried by such water, or is placed where the natural flow of the storm and flood waters would carry the same downstream to the damage and detriment of either private or public property adjacent to said drainage ditch, water course, channel or conduit.

C. It shall be unlawful for any person to change the drainage on his or her property so as to divert the drainage to the nearest public road, without first obtaining a permit to do so from the public works director.

D. It shall be unlawful for any person to fill or obstruct or maintain any fill or obstruction in any drainage ditch, water course, channel or conduit carrying storm or drainage water unless a permit to do so has been obtained from the public works director.

E. It shall be unlawful for any person to do anything to any drainage ditch, water course, channel or conduit carrying storm or drainage water that will in any manner obstruct or interfere with the flow of water through such ditches, water courses, channels or conduits unless a permit to do so has been obtained from the public works director.

F. It shall be unlawful for any person to level land in a manner which would flood adjacent properties or public roadways.

G. Every property owner, whether it be a person or his lessee or tenant, through whose property a drainage ditch, water course, channel or conduit carrying storm or drainage water passes, shall keep and maintain the same free from obstacles that will prevent or retard the flow of water through such ditch, water course, channel or conduit except that same may be filled or altered if a permit to do so has been first obtained pursuant to this chapter. (Prior code § 158.02)

CHAPTER 13.28 – STORMWATER MANAGEMENT AND DISCHARGE CONTROL

Section 13.28.020: Purpose and intent.

The purpose of this chapter is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing in watersheds within the city of Lathrop, pursuant to and consistent with the Federal Clean Water Act (33 U.S.C. Section 1251 et seq.) and the Porter-Cologne Water Quality Act (California Water Code Section 13000 et seq.). This chapter seeks to meet that purpose through the following objectives:

A. To comply with all federal and state laws, lawful standards and orders applicable to stormwater and urban runoff pollution control;
B. To prohibit any discharge which may interfere with the operation of, or cause any damage to the storm drain system or impair the beneficial use of the receiving waters;
C. To prohibit illicit discharges into the storm drain system;
D. To reduce non-stormwater discharge to the storm drain system to the maximum extent practicable;
E. Minimize increases in stormwater and runoff from any development in order to reduce flooding, siltation, and streambank erosion and maintain the integrity of drainage channels;
F. Minimize nonpoint source pollution caused by stormwater runoff from development that would otherwise degrade local water quality; and
G. Minimize the total annual volume of surface water runoff that flows from any specific site during and following development. (Ord. 07-265 § 1)

Section 13.28.130: Requirement to prevent, control and reduce stormwater pollutants.

A. Authorization to Adopt and Impose Best Management Practices (BMPs). The city may adopt requirements identifying best management practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of stormwater, the storm drain system, or waters of the United States. Where best management practice requirements are promulgated by the city or any federal, state of California, or regional agency for any activity, operation, or facility which would otherwise cause the discharge of pollutants to the storm drain system or a waters of the United States, every person undertaking such activity or operation, or owning or operating such facility shall comply with such requirements.
B. New Development and Redevelopment. The city may adopt requirements identifying appropriate design standards and best management practices to control the volume, rate, and potential pollutant load of stormwater runoff from new development and redevelopment projects as may be appropriate to minimize the generation, transport and discharge of pollutants. The city shall incorporate such requirements in any land use entitlement and construction or building-related permit to be issued relative to such development or redevelopment. The owner and developer shall comply with the terms, provisions, and conditions of such land use entitlements and building permits as required in this chapter.

C. Responsibility to Implement Best Management Practices. Notwithstanding the presence or absence of requirements promulgated pursuant to subsections A and B of this section, any person engaged in activities or operations, or owning facilities or property which will or may result in pollutants entering stormwater, the storm drain system, or waters of the United States shall implement best management practices to the extent they are technologically achievable to prevent and reduce such pollutants. The owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses. Facilities to prevent accidental discharge of prohibited materials or other wastes shall be provided and maintained at the owner or operator's expense.
D. Maintenance Agreements. All structural and nonstructural permanent stormwater BMPs not in the control of the city of Lathrop shall have an enforceable maintenance agreement to ensure the system functions as designed. The agreement shall include any and all maintenance easements required to access and inspect the stormwater BMPs, and to perform routine maintenance as required. Such agreements shall specify the parties responsible for the proper maintenance of all stormwater BMPs.

CHAPTER 17.17 – 200-YEAR FLOOD PROTECTION

Section 17.17.010 Intent.

This chapter implements the requirements of Senate Bill 5 (2007) and related legislation that prohibit approval of urban development in urban and urbanizing areas that are exposed to 200-year flooding risk unless certain findings are made. These requirements are established in the California Government Code at Sections 65865.5, 65962 and 66474.5, as amended. (Ord. 16-361 § 1)

Section 17.17.030: 200-year flood protection requirements for new development.

After July 2, 2016, unless that date is amended by the State Legislature, new development shall not be approved where 200-year flooding, as shown on a 200-year floodplain map, will exceed three feet in depth, or in flood hazard zones where 200-year floodplain maps have not been approved by the city engineer, unless the approval authority determines based on substantial evidence in the record that:

A. The facilities of the State Plan of Flood Control or other flood management facilities protect the new development site to the urban level of flood protection in urban and urbanizing areas or the national Federal Emergency Management Agency standard of flood protection in non-urbanized areas; or
B. Conditions imposed on the new development will protect the property to the urban level of flood protection in urban and urbanizing areas or the national Federal Emergency Management Agency standard of flood protection in non-urbanized areas; or
C. The local flood management agency has made adequate progress on the construction of a flood protection system that will result in flood protection equal to or greater than the urban level of flood protection in urban or urbanizing areas, or the national Federal Emergency

Management Agency standard of flood protection in non-urbanized areas, for a new development site located within a flood hazard zone intended to be protected by the system. For urban and urbanizing areas protected by project levees, the urban level of flood protection shall be achieved by 2025; or

D. The new development site located in an undetermined risk area has met the urban level of flood protection based on substantial evidence in the record. (Ord. 16-361 § 1)

City of Lathrop Stormwater Management Program

The City has an adopted a stormwater management program (SWMP) for compliance with requirements of the Phase 2 NPDES municipal stormwater permit. The SWMP is composed of six program elements developed to reduce contaminants discharged into receiving water bodies. The six Minimum Control Measure (MCM) elements of the SWMP are public education and outreach, public involvement/participation, illicit discharge detection and elimination, construction site runoff control, post construction runoff control in new development and redevelopment, and pollution prevention/good housekeeping for municipal operations. For each MCM, the City has selected a suite of BMPs and measurable goals to address the specific stormwater problems identified within the city limits.

In association with the SWMP, the City adopted a Storm Water Ordinance, construction standards, and design review guidelines to reduce contaminants in stormwater runoff. Of particular relevance to the proposed project is the City's coordination of BMP review and implementation under the construction site runoff control program. New development and redevelopment control measures include development of structural controls, development of nonstructural controls, development of ordinances or regulatory mechanisms, and development of long-term operation and maintenance (O&M) practices.

Pollution prevention/good housekeeping for municipal operations addresses routine O&M activities for drainage systems, roadways, parks and open spaces, and other municipal operations to help ensure a reduction in pollutants entering the storm sewer system. The pollution prevention/good housekeeping program also includes a training component to prevent and reduce stormwater pollution from municipal operations. The pollution prevention/good housekeeping BMPs can be separated into two broad categories: source controls and materials management.

Source controls are BMPs designed to prevent or reduce pollutants at the source and include BMPs such as storm drainage system maintenance, structural floatable controls, street maintenance staff training, flood control projects, and litter ordinances. Materials management BMPs are designed to reduce pollutants with nonstructural controls such as pesticide education and spill prevention control.

3.9.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with hydrology and water quality if it will:

- Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality;
- Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin;
- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would:
    - Result in substantial erosion or siltation on- or off-site;
    - Substantially increase the rate or amount of surface runoff in a manner that would result in 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;
    - Impede or redirect flood flows;
- In flood hazard, tsunami, or seiche zones, risk release of pollutants due to Project inundation; and/or
- Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

IMPACTS AND MITIGATION

Impact 3.9-1: The proposed Project has the potential to violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. (Less than Significant)

According to the United States Environmental Protection Agency, polluted stormwater runoff is a leading cause of impairment to the nearly 40 percent of surveyed U.S. water bodies which do not meet water quality standards. Over land or via storm sewer systems, polluted runoff is discharged, often untreated, directly into local water bodies. Soil erosion is one of the most common sources of polluted stormwater runoff during construction activities. When left uncontrolled, storm water runoff can erode soil and cause sedimentation in waterways, which collectively result in the destruction of fish, wildlife, and aquatic life habitats; a loss in aesthetic value; and threats to public health due to contaminated food, drinking water supplies, and recreational waterways.

Mandated by Congress under the Clean Water Act, the NPDES Stormwater Program is a comprehensive two-phased national program for addressing the non-agricultural sources of

stormwater discharges which adversely affect the quality of our nation's waters. The program uses the National Pollutant Discharge Elimination System (NPDES) permitting mechanism to require the implementation of controls designed to prevent harmful pollutants, including soil erosion, from being washed by stormwater runoff into local water bodies. The construction activities for the proposed project would be governed by the General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ), which states:

> *"…Particular attention must be paid to large, mass graded sites where the potential for soil exposure to the erosive effects of rainfall and wind is great and where there is potential for significant sediment discharge from the site to surface waters. Until permanent vegetation is established, soil cover is the most cost-effective and expeditious method to protect soil particles from detachment and transport by rainfall. Temporary soil stabilization can be the single most important factor in reducing erosion at construction sites. The discharger is required to consider measures such as: covering disturbed areas with mulch, temporary seeding, soil stabilizers, binders, fiber rolls or blankets, temporary vegetation, and permanent seeding. These erosion control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed. Erosion control BMPs should be the primary means of preventing storm water contamination, and sediment control techniques should be used to capture any soil that becomes eroded…."*

General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ) further states that:

> *"Sediment control BMPs should be the secondary means of preventing storm water contamination. When erosion control techniques are ineffective, sediment control techniques should be used to capture any soil that becomes eroded. The discharger is required to consider perimeter control measures such as: installing silt fences or placing straw wattles below slopes. These sediment control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed…. Inappropriate management of run-on and runoff can result in excessive physical impacts to receiving waters from sediment and increased flows. The discharger is required to manage all run-on and runoff from a Specific Plan Area. Examples include: installing berms and other temporary run-on and runoff diversions…. All measures must be periodically inspected, maintained and repaired to ensure that receiving water quality is protected. Frequent inspections coupled with thorough documentation and timely repair is necessary to ensure that all measures are functioning as intended…."*

CONSTRUCTION PHASE

Grading, excavation, removal of vegetation cover, and loading activities associated with construction activities could temporarily increase runoff, erosion, and sedimentation. Construction

activities also could result in soil compaction and wind erosion effects that could adversely affect soils and reduce the revegetation potential at construction sites and staging areas.

To ensure that construction activities are covered under General Permit 2009-0009-DWQ (amended by 2010-0014-DWQ & 2012-0006-DWQ), projects in California with land disturbance of one-acre or more must prepare a SWPPP containing BMPs to reduce erosion and sediments to meet water quality standards. Such BMPs may include: temporary erosion control measures such as silt fences, staked straw bales/wattles, silt/sediment basins and traps, check dams, geofabric, sandbag dikes, and temporary revegetation or other ground cover. The BMPs and overall SWPPP is submitted to the Regional Water Quality Control Board and the City as part of the permitting process. Once submitted, the SWPPP is kept on site and implemented during construction activities and must be made available upon request to representatives of the RWQCB and/or the City.

In accordance with the NPDES Stormwater Program, the Project would be subject to the existing regulatory requirements to prepare a SWPPP designed to control erosion and the loss of topsoil to the extent practicable using BMPs that the RWQCB has deemed effective in controlling erosion, sedimentation, runoff during construction activities. The RWQCB has stated that these erosion control measures are only examples of what should be considered and should not preclude new or innovative approaches currently available or being developed. The specific controls are subject to the review and approval by the RWQCB and are an existing regulatory requirement. Implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

OPERATIONAL PHASE

The long-term operations of the proposed Project (all phases) could result in long-term impacts to surface water quality from urban stormwater runoff. The proposed Project would result in increased impervious area at the site as a result of the proposed development. Normal activities in these developed areas include the use of various automotive petroleum products (i.e., oil, grease, and fuel), common household hazardous materials, heavy metals, pesticides, herbicides, fertilizers, and sediment. Within urban areas, these pollutants are generally called nonpoint source pollutants. The pollutant levels vary based on factors such as time between storm events, volume of storm event, type of uses, and density of people.

As discussed in Chapter 2.0, development of the proposed Project would include construction of a new storm drainage system, including a drainage collection system, and a private storm water retention basin. A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site, and a landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. Typically, storm water is collected into detention basins and then pumped out within 24 to 48 hours following the storm. The final design of all onsite and offsite storm drain infrastructure improvements is subject to the review and approval of the City of Lathrop.

The ongoing operational phase of the proposed project requires discharge of stormwater into the retention basin. The water would percolate into the underlying groundwater. The discharge of

stormwater must be treated through BMPs prior to its discharge. The Lathrop Municipal Code provides rules and regulations to manage and control stormwater and discharge (Chapter 13.28). Section 13.28.120 requires compliance with all applicable NPDES permits. Additionally, Section 13.28.130 specifically provides requirement to prevent, control, and reduce stormwater pollutants. This includes requirements to implement BMPs to the extent they are technologically achievable to prevent and reduce pollutants. Under this requirement, the owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses. Facilities to prevent accidental discharge of prohibited materials or other wastes shall be provided and maintained at the owner or operator's expense.

The ongoing operational phase of the proposed Project requires the final discharge of stormwater into the on-site detention basins. The discharge of stormwater must be treated through BMPs prior to its discharge. The City of Lathrop implements BMPs to the extent they are technologically achievable to prevent and reduce pollutants.

In accordance with the City's Storm Water Master Plan (SWMP) and NPDES Stormwater Program (General Industrial Stormwater Permit), BMPs would be implemented to reduce the amount of pollution in stormwater discharged from the project site. The management of water quality through the requirement to obtain a General Industrial Stormwater Permit and implement appropriate BMPs would ensure that water quality does not degrade to levels that would violate water quality standards. These are existing regulatory requirements. Implementation of the proposed project would have a ***less than significant*** impact relative to this topic.

Impact 3.9-2: Project implementation could deplete groundwater supplies or interfere substantially with groundwater recharge. (Less than Significant)

The proposed Project would result in new impervious surfaces and could reduce rainwater infiltration and groundwater recharge. Infiltration rates vary depending on the overlying soil types. In general, sandy soils have higher infiltration rates and can contribute to significant amounts of ground water recharge; clay soils tend to have lower percolation potential; and impervious surfaces such as pavement significantly reduce infiltration capacity and increase surface water runoff.

Table 3.9-2 below identifies the soils in the Project site and the soils infiltration rate. The Project Area has soils with hydrologic ratings of "A" and "C". Group "A" soils have low runoff potential when thoroughly wet, and Group "C" soils have moderately high runoff potential when thoroughly wet.

TABLE 3.9-2: SOILS HYDROLOGIC RATING

DESCRIPTION	*SOURCE MATERIAL*	*RATING*
Manteca fine sandy loam	Alluvium derived from mixed rock sources	C
Veritas fine sandy loam	Alluvium derived from mixed rock sources	A

SOURCE: NCRS 2023.

Development of the Project Area with impervious surfaces could reduce rainwater infiltration and groundwater recharge further. The collection of rainwater for those areas of impervious surfaces will be routed into the proposed Project's storm drainage system. Stormwater would be gravity fed and eventually flow to the proposed retention basin. Once at the retention basis, water would percolate to underground groundwater stores.

As detailed in the City's 2020 UWMP and mentioned previously in this section, the City's groundwater wells are located in the Tracy Subbasin and the City is part of Tracy Subbasin GSA. The City was a part of the development of the GSP for the Tracy Subbasin in 2021. Based on the GSP for the Tracy Subbasin, and statements in the 2020 UWMP, the City's groundwater supplies are expected to be highly reliable.

As discussed in Section 3.15, Utilities and Service Systems, of the City's General Plan Draft EIR, the City's 2020 UWMP documents current and projects future water demands and supplies through 2040. Water supplies to meet future demands include surface water purchased from SSJID, City produced groundwater and recycled water. The City's water supply is projected to increase by about 54 percent from 2020 to 2040, primarily due to implementation of the City's UMWP. Future City groundwater pumping is estimated based on the safe yield for all groundwater pumping within the City's planning area which is not predicted to experience any additional restrictions as a result of the City's GSP.

The City plans to utilize its existing groundwater wells to supply water in the future. As discussed in the City's UWMP the current estimated annual groundwater yield is 4,720 AFY and the City currently has no plans to install additional groundwater wells or expand its groundwater production. Additionally, as described in the UWMP the City's ability to utilize groundwater wells will not be impacted by groundwater levels within the Tracy groundwater basin, and would not require the City to limit groundwater production to maintain a sustainable groundwater budget. Based on the available information, it is anticipated that 100% the City's current estimated groundwater yield is available for the planning horizon.

Additionally, as noted in the GSP, each member City, including Lathrop, includes policies within the General Plan to further encourage water conservation and overall water system efficiency.

The proposed Project would not be required to build new municipal water wells to increase capacity of available water.

While the Project area's soils have low and high infiltration rates, much of the groundwater recharge in the basin occurs from irrigation followed by precipitation. Precipitation in the region is 12.2 inches, most of which falls between late October and early May. A portion of this annual rainfall infiltrates the soil and groundwater basin, while a portion is discharged downstream into irrigation canals and the San Joaquin River.

Much of the Project area would be maintained as pervious surface. According to the landscaping plan for the Project, approximately 6.05 acres (approximately 27 percent of the site) of landscaping would be provided on-site. These landscaped areas could maintain groundwater recharge areas.

While the proposed Project would reduce the amount of pervious surfaces within the Project area, much of the site would be converted to impervious surface. This would result in opportunities for groundwater recharge after the Project area is fully developed.

For the reasons mentioned above, the proposed Project would not cause the substantial depletion of groundwater supplies or interfere substantially with groundwater recharge. As such, implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

Impact 3.9-3: The proposed Project would not alter the existing drainage pattern of the site or area, including the alteration of the course of a river or through the addition of impervious surfaces, in a manner which would result in substantial erosion, siltation, surface runoff, flooding, or polluted runoff. (Less than Significant)

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. Currently, runoff from within the Project site is either maintained onsite, or collected in a system of agricultural ditches and roadside ditches. Public storm drain facilities are currently installed along Manthey Road. Planned urbanization of the Project site would result in changes to land use, natural vegetation, and infiltration characteristics, and would introduce new sources of water pollutants, producing "urban runoff." Pollutants contained within urban runoff may include, but are not limited to, sediment, oxygen-demanding substances (e.g., organic matter), nutrients (primarily nitrogen and phosphorus), heavy metals, bacteria, oil and grease, and toxic chemicals that can degrade receiving waters. Urban runoff pollutants may stem from erosion of disturbed areas, deposition of atmospheric particles derived from automobile or industrial sources, corrosion or decay of building materials, rainfall contact with toxic substances, decomposing plant materials, animal excrement, and spills of toxic materials on surfaces which receive rainfall and generate runoff. New retail and commercial uses within the Project Area may also generate urban runoff from streets, driveways and parking areas. Yard areas may produce fertilizer wastes and/or bacterial contamination from animal excrement. New industrial development can generate urban runoff from parking areas, as well as any areas of hazardous materials storage exposed to rainfall.

The ongoing operational phase of the proposed project requires discharge of stormwater into the retention basin. As noted previously, a 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site, as shown in Figure 2.0-7. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. The water would percolate into the underlying groundwater.

The discharge of stormwater must be treated through BMPs prior to its discharge. The Lathrop Municipal Code provides rules and regulations to manage and control stormwater and discharge (Chapter 13.28). Section 13.28.120 requires compliance with all applicable NPDES permits. Additionally, Section 13.28.130 specifically provides requirement to prevent, control, and reduce

stormwater pollutants. This includes requirements to implement BMPs to the extent they are technologically achievable to prevent and reduce pollutants. Under this requirement, the owner or operator of a commercial or industrial establishment shall provide reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses. Facilities to prevent accidental discharge of prohibited materials or other wastes shall be provided and maintained at the owner or operator's expense.

All stormwater would be pre-treated in accordance with current NPDES requirements, and would be retained on-site. Pond volume calculations were completed for the Project to show the designed pond calculations for a 100-year, 24-hour storm event. The pond is designed to take 200% of the required volume. Per our design and the Geotechnical report, we have determined that 100% of the volume would percolate within 25 hours and 39 hours which meets the requirement of maximum detention of 48 hours.

With the design and construction of the improvements included in the proposed storm drainage system, the proposed Project would have a ***less than significant*** impact relative to this topic.

Impact 3.9-4 The proposed Project has the potential to, in a flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation. (Less than Significant)

100-YEAR AND 500-YEAR FLOOD HAZARD ZONES

Flooding events can result in damage to structures, injury or loss of human and animal life, exposure of waterborne diseases, and damage to infrastructure. In addition, standing floodwater can destroy agricultural crops, undermine infrastructure and structural foundations, and contaminate groundwater.

As shown on Figure 3.9-2, the Project site is not within the 100- or 500-year flood hazard zones. As noted previously, the Project site is within Zone X, Area with Reduced Risk Due to Levee. As such, impacts related to these FEMA flood hazard zones would be ***less than significant***.

SB 5 FLOOD ZONES

As noted previously, both State policy and 2007 State legislation (Senate Bill 5) call for 200-year (0.5% annual chance) flood protection to be the minimum level of protection for urban and urbanizing areas in the Central Valley. SB 5 requires that the 200-year protection be consistent with criteria used or developed by the Department of Water Resources. SB 5 requires all urban and urbanizing areas in the Sacramento and San Joaquin Valleys to achieve 200-year flood protection in order to approve development.

To account for new requirements imposed by SB-5, San Joaquin County and the City of Lathrop have developed flood mapping that delineates 200-year flood extents. Based on SB-5 requirements, the City of Lathrop Public Safety Element incorporates goals, policies, and implementation measures

related to 200-year flood risk and flood protection. The City has completed Zoning Code Amendments to reflect SB-5 requirements.

As shown in Figure 3.9-2, the entire Project site is within the 200-year flood zone. However, pursuant to the City Municipal Code, the proposed Project would be required to comply with regulations contained in Chapter 17.17 (200-Year Flood Protection) of the City Municipal Code. Through compliance with these existing regulations, impacts would be ***less than significant***.

TSUNAMIS AND SEICHES

A tsunami is a sea wave caused by a submarine earthquake, landslide, or volcanic eruption. A tsunami can cause catastrophic damage to shallow or exposed shorelines. The Project Area is approximately 56 miles from San Francisco Bay and 70 miles from the coast, which is sufficiently distant to preclude effects from a tsunami.

Seiches are changes or oscillations of water levels within a confined water body. Seiches are caused by fluctuation in the atmosphere, tidal currents or earthquakes. The effect of this phenomenon is a standing wave that would occur when influenced by external causes. The Project Area is not adjacent to any lakes that pose a significant risk from a seiche event. Therefore, implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

DAM INUNDATION

The Project Area is subject to flood inundation as a result of dam failure at the New Melones Dam, San Luis Reservoir Dam, Don Pedro Dam, and New Exchequer Dam. Figure 3.9-3 shows areas that are susceptible to dam inundation. Dam failure is generally a result of structural instability caused by improper design or construction, instability resulting from seismic shaking, or overtopping and erosion of the dam. As discussed previously, larger dams that are higher than 25 feet or with storage capacities over 50 AF of water are regulated by the California Dam Safety Act, which is implemented by the California Department of Water Resources, DSD. The DSD is responsible for inspecting and monitoring these dams. The Act also requires that dam owners submit to the California Office of Emergency Services inundation maps for dams that would cause significant loss of life or personal injury as a result of dam failure. The County Office of Emergency Services is responsible for developing and implementing a Dam Failure Plan that designates evacuation plans, the direction of floodwaters, and provides emergency information.

Regular inspection by DSD and maintenance by the dam owners ensure that the dams are kept in safe operating condition. As such, failure of these dams is considered to have an extremely low probability of occurring and is not considered to be a reasonably foreseeable event.

While the Project Area is within the dam inundation areas for the New Melones Dam, San Luis Reservoir Dam, Don Pedro Dam, and New Exchequer Dam, the proposed Project is not anticipated to result in the exposure of people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam, seiche, tsunami, or mudflow.

The potential for dam failure is extremely low. Furthermore, the implementation of the proposed project does not exacerbate existing environmental hazards or, in other words, increase the likelihood of dam failure. Therefore, implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

Impact 3.9-5: The proposed Project has the potential to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. (Less than Significant)

WATER QUALITY CONTROL PLAN FOR THE SACRAMENTO-SAN JOAQUIN RIVER BASINS

The Water Quality Control Plan for the Sacramento-San Joaquin River Basins is the guiding documents for water quality in the City of Lathrop. This document includes a summary of beneficial water uses, water quality objectives needed to protect the identified beneficial uses, and implementation measures. The preparation and adoption of water quality control plans (Basin Plans) is required by the California Water Code (Section 13240) and supported by the Federal Clean Water Act. Section 303 of the Clean Water Act requires states to adopt water quality standards which "consist of the designated uses of the navigable waters involved and the water quality criteria for such waters based upon such uses." The Basin Plan establishes water quality standards for all the ground and surface waters of the region. The term “water quality standards,” as used in the Federal Clean Water Act, includes both the beneficial uses of specific water bodies and the levels of quality that must be met and maintained to protect those uses. The Basin Plan includes an implementation plan describing the actions by the RWQCB and others that are necessary to achieve and maintain the water quality standards.

The overall design of the drainage infrastructure will be required to comply with the *Multi-Agency Post-Construction Stormwater Standards Manual* (2015), which ensures development projects comply with the NPDES permit requirements, facilitates review of applications, and promotes integrated Low Impact Development (LID) design. The Manual also ensures proposed storm drains and infiltration/detention system have been designed to convey the required flow rates and will comply with the flood protection and storm water quality requirements of the City of Lathrop and San Joaquin County.

As discussed in Impacts 3.9-1, impacts related to water quality during construction and operation would be less than significant. The Project applicant would be required to prepare a SWPPP which would ensure that stormwater runoff does not adversely increase pollutant levels. Additionally, the Project would be required to implement a SWWP and comply with all requirements of the City’s Stormwater Management and Discharge Control ordinance (Chapter 13.28 of the Code) and the City’s SWMP. The SWMP was adopted to comply with requirements of the Phase 2 NPDES municipal stormwater permit and requires BMPs and O&M practices, among other requirements. The purpose of Chapter 13.28 of the Code is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing in watersheds within the city of Lathrop, pursuant to and consistent with the Federal Clean Water Act (33 U.S.C. Section 1251 et seq.) and the Porter-Cologne Water Quality Act (California Water Code

Section 13000 et seq.). Section 13.28.130 of the Code regulates stormwater and also requires BMPs for operation.

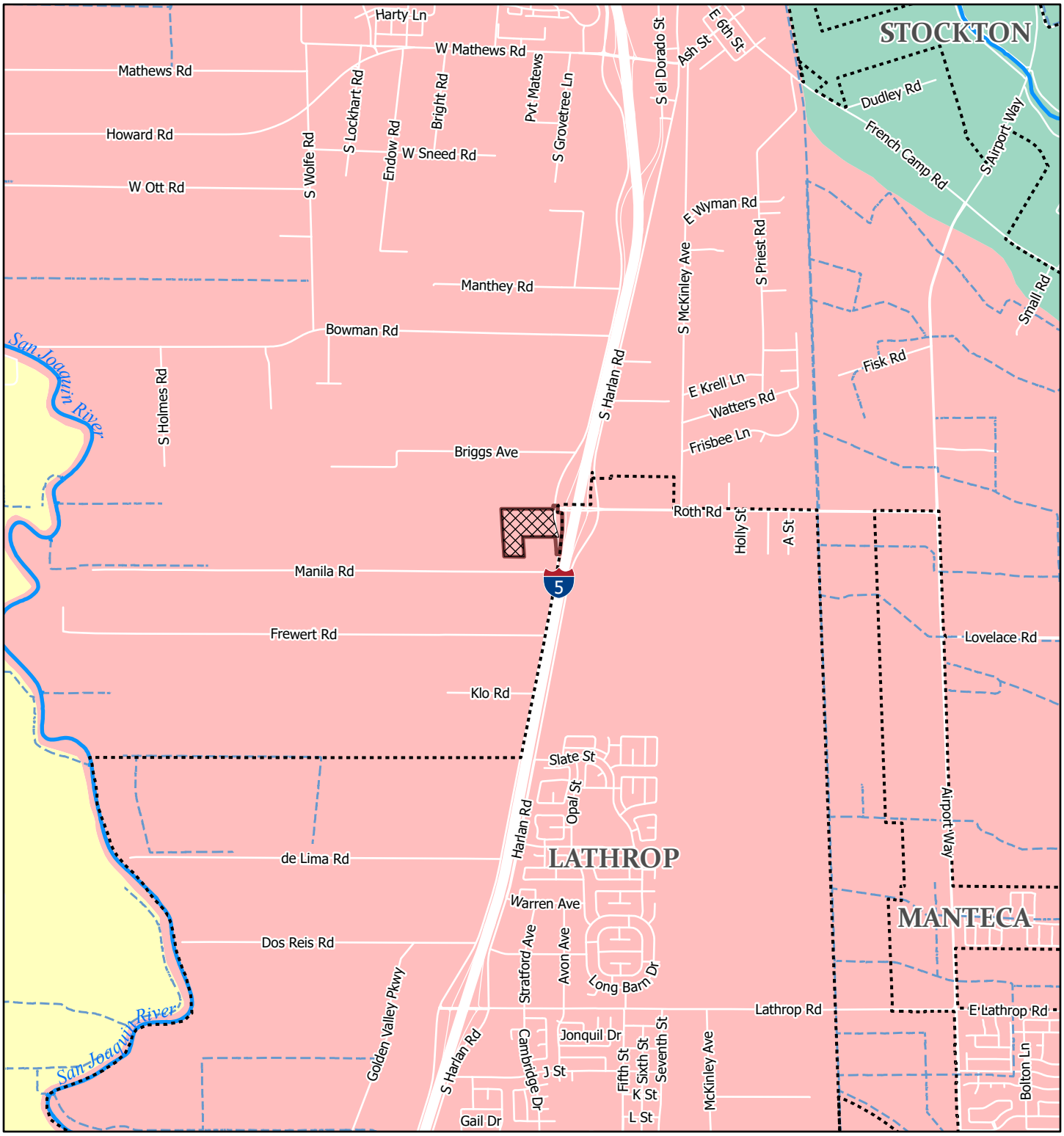
GROUNDWATER SUSTAINABILITY PLAN

As mentioned above, the City is located within the Tracy Subbasin and the entire Subbasin is covered by the Tracy Subbasin GSP (adopted by the City of Lathrop GSA in December 2021). Six agencies filed with DWR to become GSAs to cover the entire Subbasin. DWR designated them as exclusive in 2016 and 2017. In 2018, the Subbasin boundaries were modified which resulted in the formation of the East Contra Costa Subbasin and inclusion of the City of Lathrop areas into the Tracy Subbasin. The six GSAs in the Subbasin are: Banta-Carbona Irrigation District; Byron-Bethany Irrigation District; City of Lathrop; City of Tracy; County of San Joaquin; and Stewart Tract.

As discussed in Impact 3.9-2, the Project would not decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin. As discussed in Impact 3.14-4, the estimated water demand for the proposed Project would be approximately 16,881.8 gallons of water per day (or 18.9 AFY). The City is projected to have adequate supplies to meet projected demands in multiple dry years through 2040. Adequate supplies are anticipated to be available to meet Project demands during the first, second and fifth year of drought at buildout. During the third and fourth year at buildout, the City's total water demand is estimated to exceed total supply by 314 AFY (2%). The City's existing near-term and long-term reliable supplies of surface water supplies and groundwater supplies can deliver a sustainable reliable water supply to meet existing and foreseeable water demands without impacting environmental values and/or impacting the current stabilization of the groundwater basin.

CONCLUSION

Overall, implementation of the proposed Project would not conflict with the Basin Plan or the Tracy Subbasin GSP. Implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.



Legend

- Project Site / Annexation Area
- Development Area
- City Boundary
- Stream or River
- Canal or Ditch

Watershed

- Roberts Island-Trapper Slough
- Town of French Camp-San Joaquin River
- Walker Slough-French Camp Slough

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.9-1. Watersheds

0 ¼ ½ Miles

Sources: San Joaquin County GIS; USGS Roads Database; USGS NHD HU12 and USGS WBD. Map date: December 13, 2022.

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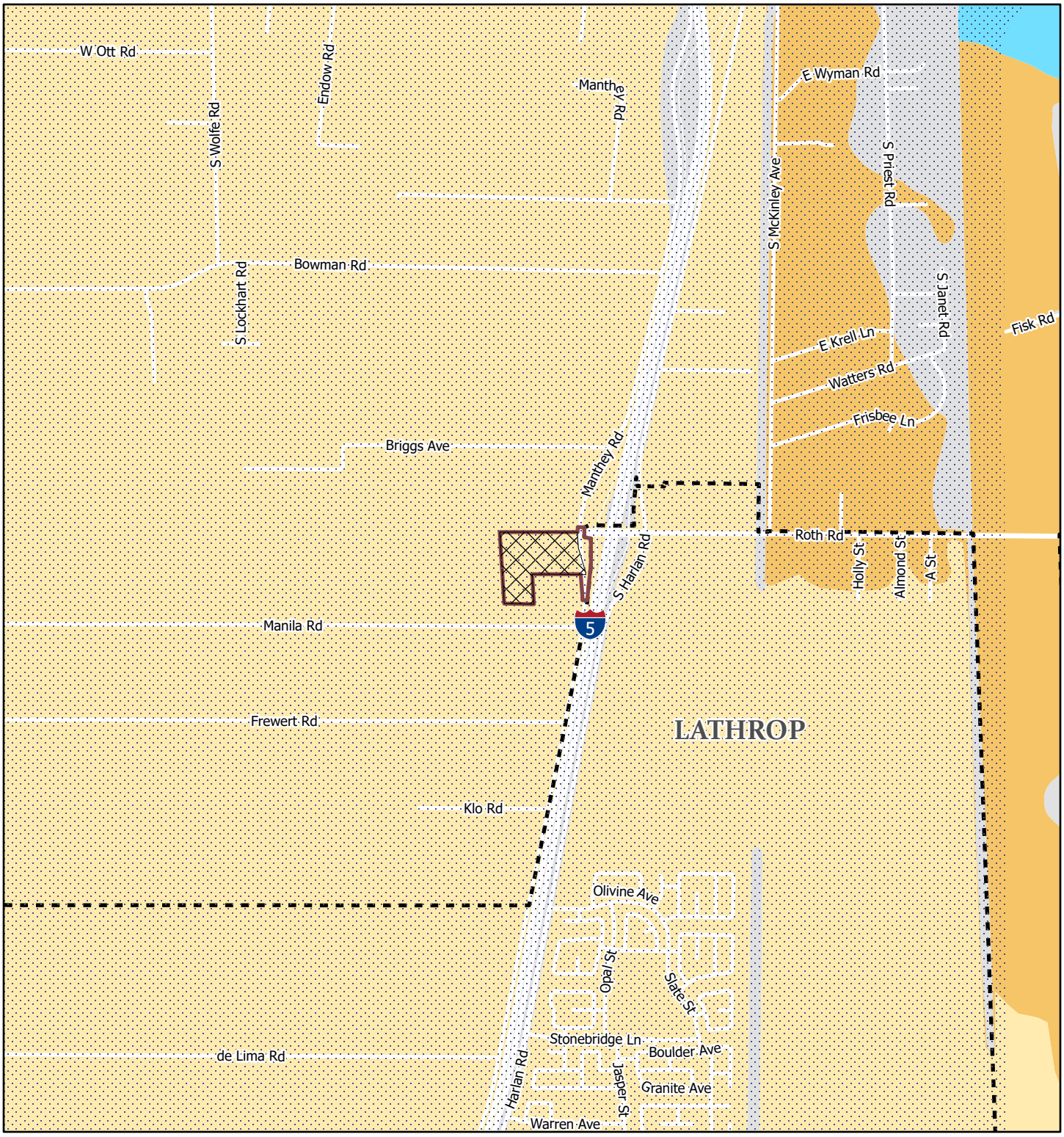

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits

USACE Comprehensive Study

- 200-year Flood Zone

FEMA Designation

- 100-year Flood Zone
- 500-year Flood Zone
- Area of Minimal Flood Hazard
- Area with Reduced Flood Risk due to Levee

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.9-2. Flood Hazard Map

0 500 1,000 2,000
Feet

Sources: San Joaquin County GIS; USGS Roads Database; FEMA; DWR.
Map date: December 13, 2022. Revised: March 29, 2023.

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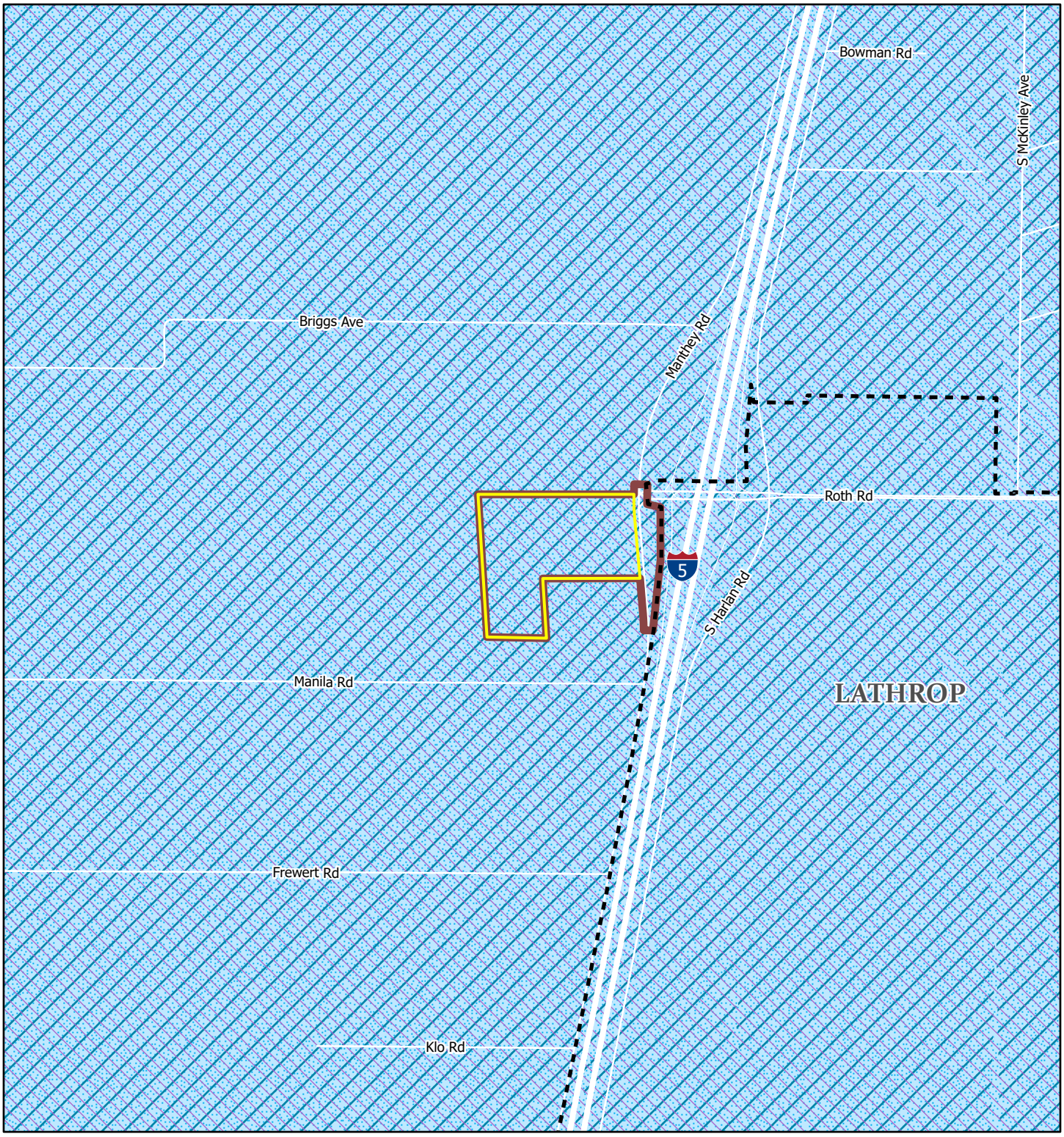

SINGH PETROLEUM INVESTMENT PROJECT

Figure 3.9-3. Dam Inundation Areas

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- San Luis Reservoir Dam Inundation Area
- New Melones Dam Inundation Area
- Don Pedro Dam Inundation Area
- New Exchequer Dam Inundation Area

0 250 500 1,000
Feet

Sources: San Joaquin County GIS; USGS Roads Database; California OES; DWR . Map date: November 8, 2022.

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This section describes the existing land uses in the Project Area and in the surrounding area, describes the applicable land use regulations, and evaluates the environmental effects of implementation of the proposed Project related to land use, population, and housing. Information in this section is based on information provided in the Project materials, and the following reference documents: *City of Lathrop General Plan (City of Lathrop, 2022), the City of Lathrop Draft Environmental Impact Report for the General Plan Update (City of Lathrop, 2022), the City of Lathrop Municipal Code, Title 17 Zoning (City of Lathrop, 2022), Municipal Service Review (City of Lathrop, 2022), and the San Joaquin County General Plan (County of San Joaquin, 2025).*

No comments received during the NOP scoping process related to this environmental topic. Full comments received during the NOP process are included within Appendix A.

As discussed in the Initial Study for the proposed Project (see Appendix A), the Project site is currently undeveloped and does not contain any existing housing that would be displaced. Development of the site, as proposed, would not displace substantial numbers of existing people or housing. Sewer and water infrastructure and services would be extended to the Project site, however no additional housing development is planned for the Project area. Therefore, the proposed Project would not induce substantial population growth to the area. For these reasons, the impacts related to population and housing would be less than significant and no additional analysis of this CEQA topic is warranted. This CEQA topic is not relevant to the proposed Project and does not require further analysis.

3.10.1 ENVIRONMENTAL SETTING

EXISTING PHYSICAL ENVIRONMENT

Project Area

The Project site is comprised of approximately 21.7 acres on two Assessor's Parcel Numbers (APN) 191-250-14 (Parcel 1 - 11.4 acres) and 191-250-06 (Parcel 2 - 10.3 acres). The Project site is located in unincorporated San Joaquin County, north of the City of Lathrop. Parcel 1 (191-250-14) and Parcel 2 (191-250-06) are located within the City's SOI. Both parcels are outside the city limits. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figure 2.0-1 in Chapter 2.0, Project Description, shows the Project's regional location and vicinity.

The Project site is comprised of flat land with ruderal grasses, a few trees (located primarily along the northern and eastern boundary of the Project site), and impervious area of approximately 2,500 square feet. Fencing surrounds the Project site.

The Project Area is located within the northern boundary of the City of Lathrop Sphere of Influence (SOI), within the unincorporated area of Jan Joaquin County. The proposed Project is located west of I-5 and is bordered by Manthey Road and the future extension of Roth Road. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders

land located within the City of Lathrop city limits to the east. The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and rural residential properties to the north. Figures 2.0-1 and 2.0-2 in Section 2.0, Project Description, illustrate the regional location and Project vicinity.

Surrounding Land Uses

The Project site is surrounded by San Joaquin County land to the north, west, and south, while the Project site borders land located within the City of Lathrop city limits to the east. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and rural residential properties to the north. Lands to the north, west, and south of the Project site are designated as Area of Interest by the Lathrop General Plan. Lands to the east are designated Limited Industrial and Freeway Commercial under the Lathrop General Plan.

Under the San Joaquin County General Plan, lands to the west, south, and north of the Project site are designated Agriculture/General (A/G). Lands to the east are within the Lathrop city limits and do not have a County land use designation.

DEMOGRAPHICS

Population and Households

Table 3.10-1 summarizes the population and household data for Lathrop and San Joaquin County from 1990 through 2020.

TABLE 3.10-1: POPULATION AND HOUSEHOLD GROWTH

	1990	*2000*	*2010*	*2020*	*1990-2000 % CHANGE*	*2000-2010 % CHANGE*	*2010-2020 % CHANGE*
LATHROP							
Population	6,841	10,445	18,023	26,503	53%	72%	48%
Households	1,927	2,908	4,782	5,503	51%	64%	15%
Persons per household	3.55	3.59	3.77	3.88	1%	5%	3%
SAN JOAQUIN COUNTY							
Population	480,628	563,598	685,306	773,505	17%	22%	13%
Households	166,274	181,629	215,007	228,567	9%	18%	6%
Persons per household	2.94	3.00	3.12	3.22	2%	4%	3%

SOURCE: U.S. CENSUS, 1990, 2010; LATHROP HOUSING ELEMENT, 2016; CALIFORNIA DEPARTMENT OF FINANCE, 2021.

Lathrop incorporated in 1989 and by 1990, the US Census Bureau recorded the population at 6,841. From 1990 to 2000, the city's population increased by 51% from 6,841 to 10,445 persons. From 2000 to 2010 Lathrop experienced population growth increasing by approximately 72% from 10,445 to 18,023. San Joaquin County's total population increased by approximately 20% during the decades

of 1990-2000 and 2000-2010. As of 2020, Lathrop's population was estimated to be 26,806, an increase of 49% from the 2010 population of 18,023.

Over the years, the average household size has fluctuated slightly with a high of 3.88 in 2020 and a low of 3.55 in 1990.

Housing Units

As shown in Table 3.10-2, the number of housing units in Lathrop has increased at rates similar to the population with significant increases since 1990. In 2020, there were 7,284 housing units in the city. From 2000 to 2010, housing units increased from 2,991 to 5,261, a 76% increase, while between 2010 and 2020 the city experienced a 38% increase.

TABLE 3.10-2: HOUSING UNITS

	1990	*2000*	*2010*	*2020*	*1990-2000 % CHANGE*	*2000-2010 % CHANGE*	*2010-2020 % CHANGE*
Lathrop	2,040	2,991	5,261	7,284	47%	76%	38%
San Joaquin County	158,659	189,160	233,755	249,058	19%	24%	6.6%

SOURCE: U.S. CENSUS, 2000, 2010; LATHROP HOUSING ELEMENT, 2016, 2010 CALIFORNIA DEPARTMENT OF FINANCE, 2020.

3.10.2 REGULATORY SETTING

STATE

Cortese-Knox-Hertzberg Local Government Reorganization Act

The Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (Act) (Government Code §56000 et seq., identifies the responsibilities of LAFCOs. There is a LAFCO in each county, consistent with the requirements of Section 56001 of the Act. Each LAFCO is intended to encourage orderly growth and development essential to the social, fiscal, and economic well-being of the state. Specific elements established by the Act encourage orderly development patterns by discouraging urban sprawl and preserving open-space and prime agricultural lands.

In order to implement the requirements listed above, LAFCOs have the specific authority to review the following actions:

- Annexations to, or detachment from, cities or districts;
- Formations or dissolution of districts;
- Incorporation or dis-incorporation of cities;
- Consolidation or reorganization or cities and districts;
- Establishment of subsidiary districts; and
- Development of, and amendments to, spheres of influence.

The statutory objectives of a LAFCO are to encourage the orderly formation of local government agencies, preserve agricultural land, and discourage urban sprawl. LAFCOs review proposals for the formation of new local government agencies and regulate changes, such as boundary lines, of

existing agencies. A LAFCO is the entity that evaluates proposals for the creation of cities or special districts, as well as proposals to annex additional land to local jurisdictions.

Government Code section 56300 provides that all LAFCOs must exercise their powers "in a manner that encourages and provides planned, well-ordered, efficient urban development patterns with appropriate consideration of preserving open space and agricultural lands within those patterns." Section 56377 states that, in reviewing "proposals" that "could reasonably be expected to induce, facilitate, or lead to the conversion of existing open-space lands to uses other than open-space uses," LAFCOs shall consider the following policies:

- "development or use of land for other than open space uses shall be guided away from existing prime agricultural lands, unless that action would not promote the planned, orderly, efficient development of an area"; and
- "development of existing vacant or nonprime agricultural lands for urban uses within the existing jurisdiction of a local agency or within the sphere of influence of a local agency should be encouraged before any proposal is approved which would allow for or lead to the development of existing open space lands for non-open-space uses which are outside of the existing jurisdiction of the local agency or outside of the existing sphere of influence of the local agency."

Section 56668 provides that, in reviewing a "proposal," a LAFCO shall consider all of the following:

(a) Population and population density; land area and land use; assessed valuation; topography, natural boundaries, and drainage basins; proximity to other populated areas; and the likelihood of significant growth in the area, and in adjacent incorporated and unincorporated areas, during the next 10 years.

(b) The need for organized community services; the present cost and adequacy of governmental services and controls in the area; probable future needs for those services and controls; and probable effect of the proposed incorporation, formation, annexation, or exclusion and of alternative courses of action on the cost and adequacy of services and controls in the area and adjacent areas.

(c) The effect of the proposed action and of alternative actions, on adjacent areas, on mutual social and economic interests, and on the local governmental structure of the county.

(d) The conformity of both the proposal and its anticipated effects with both the adopted LAFCO policies on providing planned, orderly, efficient patterns of urban development, and the policies and priorities in Government Code Section 56377.

(e) The effect of the proposal on maintaining the physical and economic integrity of agricultural lands, as defined by Government Code Section 56016.

(f) The definiteness and certainty of the boundaries of the territory, the nonconformance of proposed boundaries with lines of assessment or ownership, the creation of islands or

corridors of unincorporated territory, and other similar matters affecting the proposed boundaries.

(g) A regional transportation plan adopted pursuant to Section 65080.

(h) The proposal's consistency with city or county general and specific plans.

(i) The sphere of influence of any local agency that may be applicable to the proposal being reviewed.

(j) The comments of any affected local agency or other public agency.

(k) The ability of the newly formed or receiving entity to provide the services that are the subject of the application to the area, including the sufficiency of revenues for those services following the proposed boundary change.

(l) Timely availability of water supplies adequate for projected needs as specified in Government Code Section 65352.5.

(m) The extent to which the proposal will affect a city or cities and the county in achieving their respective fair shares of the regional housing needs as determined by the appropriate council of governments consistent with Article 10.6 (commencing with Government Code Section 65580) of Chapter 3 of Division 1 of Title 7.

(n) Any information or comments from the landowner or landowners, voters, or residents of the affected territory.

(o) Any information relating to existing land use designations.

(p) The extent to which the proposal will promote environmental justice. As used in this subdivision, "environmental justice" means the fair treatment and meaningful involvement of people of all races, cultures, incomes, and national origins, with respect to the location of public facilities and the provision of public services, to ensure a healthy environment for all people such that the effects of pollution are not disproportionately borne by any particular populations or communities.

(q) Information contained in a local hazard mitigation plan, information contained in a safety element of a general plan, and any maps that identify land as a very high fire hazard zone pursuant to Government Code Section 51178 or maps that identify land determined to be in a state responsibility area pursuant to Section 4102 of the Public Resources Code, if it is determined that such information is relevant to the area that is the subject of the proposal.

This EIR will be used by San Joaquin LAFCO during its review of the proposed annexation. San Joaquin LAFCO has adopted a comprehensive list of guidelines and policies to implement the statutory directives. These are discussed below.

LOCAL

City of Lathrop General Plan

While the proposed annexation area is currently in an unincorporated area and under the jurisdiction of San Joaquin County, it is located within the Sphere of Influence of the City of Lathrop. The applicant has proposed that the proposed annexation area be annexed into the City of Lathrop.

General Plans are prepared under a mandate from the State of California, which requires each city and county to prepare and adopt a comprehensive, long-term general plan for its jurisdiction and any adjacent related lands. State law requires General Plans to address seven mandated components: circulation, conservation, housing, land use, noise, open space, and safety. In addition to those components required by State law, the Lathrop GP also contains an optional recreation element. The elements have been combined into three "Super Elements" called the Community Development Element, the Resource Management Element, and the Hazard Management Element. They represent a functional consolidation which simplifies the task of element description by combining those elements which are closely related to each another. Consolidation also makes it easier to achieve internal consistency among elements as required by State Law (Lathrop GP, p. 1-4).

The General Plan functions as a “constitution” for the City of Lathrop and reflects the long-range aspirations of physical form and amenity and provides guidance to the substance of developmental regulations and other programs of the City Council. The Lathrop GP is comprehensive, long-range and general (Lathrop GP, p. 1-2). The area covered by the General Plan has three significant geographic dimensions called Sub-Plan Areas (SPA). Each of the SPAs exhibits some differences in developmental policies and proposals.

General Plan Land Use Map: The Lathrop GP Land Use Map portrays the ultimate uses of land in the City of Lathrop through land use designations. Parcel 1 (191-250-14) is located inside the City’s SOI and currently does not have a land use designation. Parcel 2 (191-250-06) is located within the City’s SOI and is designated Freeway Commercial (FC).

Freeway Commercial: Freeway Commercial uses cater primarily to the needs of the highway traveler, and include but are not limited to hotels, motels, inns, restaurants and auto services, auto and truck sales and service, fuel stations, auto repair, sales and service. Appropriate zoning for this designation includes: Highway Commercial District, Highway Commercial – Mossdale Village.

City of Lathrop General Plan Policies: General Plan policies applicable to land use are summarized below. General Plan policies associated with specific environmental topics (aesthetics, air quality, agriculture, biological resources, cultural resources, geology/soils/mineral resources, hazards, hydrology/water quality, noise, public services/recreation, transportation, utilities, etc.) are discussed in the relevant chapters of this EIR.

Annexation through Phased Development:

The annexation of lands to the outer boundaries of urbanization depicted by the General Plan Diagram is to be pursued through development phasing which seeks to avoid a disjointed pattern of urbanization, to avoid creating unnecessary conflicts with continuing agricultural operations, and to avoid adverse impacts on the provision and maintenance of public services and facilities. Annexation is not intended as a means to foster the premature development of lands within the Lathrop Planning Area. However, annexation may be viewed as an opportunity to assure that land will ultimately be developed in accordance with policies of the Lathrop GP even though development soon after annexation may not be intended either by the landowner or the City (Lathrop GP, p.2-13).

Achieving Visual and Functional Quality in New Development:

> **Policy 1:** Architectural design review should be required of all Planned Developments (PD's), and of all multi-family, office, commercial, institutional and industrial uses.

Commercial Development:

> **Policy 4:** Proposals for the classifications of retail activity described in Part IV-A of the Plan are to be considered as offering flexibility for ingenuity and innovation in the selection, promotion, design and development of commercial centers and uses.

County of San Joaquin General Plan

The County GP has a policy of growth accommodation with the caveat that in order for the growth to occur, the property must be annexed and financial mechanisms in place to ensure adequate urban services are provided. The County GP has directed most of the anticipated development to designated urban communities. The City of Lathrop is a designated urban community in the County GP (County GP, p. IV-2).

The proposed annexation area is currently located in the planning jurisdiction of San Joaquin County, and is designated, and zoned for General Industrial (I/G) uses by the County of San Joaquin. This designation provides for a full range of industrial activities whose location and operation tend to have moderate to high nuisance characteristics and therefore require segregation from other land uses. Typical uses include manufacturing, distribution, storage, and wholesaling.

County of San Joaquin General Plan Land Use Map: The Land Use Map portrays the ultimate uses of land in San Joaquin County through land use designations. The project applicant will be requesting that the proposed annexation area be annexed to the City of Lathrop to eliminate the conflict with all County land use designations and to permit the area to be developed under city standards.

San Joaquin Local Agency Formation Commission (LAFCo)

The San Joaquin LAFCo is responsible for coordinating orderly reorganization to local jurisdictional boundaries, including annexations. Annexation of the Plan Area to the City of Lathrop is subject to LAFCo approval, and LAFCo will review the proposed annexation for consistency with LAFCo's

Annexation Policies and Procedures. An annexation can only be approved if the applicable Municipal Services Review (MSR) and Plan for Services demonstrate that adequate services can be provided to the annexed area. An MSR, produced as part of a LAFCo's regular review of municipal services, consists of a written statement of its determinations regarding infrastructure, growth and population projections, financing, cost avoidance, rate restructuring, shared facilities, government structure options, management efficiency, and local accountability and governance. An annexation proposal must include a Plan for Services consistent with the applicable MSR and must demonstrate that the City is capable of providing the required services. The City must pre-zone the lands to be annexed and subsequent changes to the General Plan land use designation and zoning are prohibited for two years.

San Joaquin LAFCo has adopted Policies and Procedures for Annexation and Detachment to and from all agencies within their jurisdiction. LAFCo has also adopted Procedures for the California Environmental Quality Act in accordance with the California Code of Regulations (Chapter 3, Title 14 Section 15022), which requires that each public agency adopt objectives, criteria, and specific procedures for administering its responsibilities under CEQA. Below is a brief discussion of San Joaquin LAFCo Policies and Procedures.

LAFCO CHANGE OF ORGANIZATION POLICIES AND PROCEDURES (INCLUDING ANNEXATIONS AND REORGANIZATIONS) (AS AMENDED 12/14/12)

General Standards for Annexation and Detachment

These standards govern San Joaquin LAFCo determinations regarding annexations and detachments to and from all agencies. The annexations or detachments must be consistent with the general policies set forth in these Policies and Procedures.

1. Spheres and Municipal Service Reviews

   The annexation or detachment must be consistent with the internal planning horizon of the sphere of influence. The land subject to annexation shall normally lie within the first planning increment (5-10 year) boundary. The annexation must also consider the applicable Municipal Service Review. An annexation shall be approved only if the Municipal Services Review and the Sphere of Influence Plan demonstrates that adequate services can be provided with the timeframe needed by the inhabitants of the annexed area. If detachment occurs, the sphere will be modified. LAFCo generally will not allow spheres of influence to be amended concurrently with annexation proposals.

   Proposed annexations of land that lie outside of the first planning horizon (5-10 year) are presumed to be inconsistent with the Sphere Plan. In such a case the agency must first request LAFCo to consider a sphere amendment pursuant to the above policies. If the amendment is approved, the agency may then proceed with the annexation proposal. A change of organization or reorganization will not be approved solely because an area falls within the SOI of any agency.

As an exception to the presumed inconsistency mentioned above, Master Plan and Specific Plan developments may span several planning horizons of the sphere of influence. Annexation of the entire project area may be desirable in order to comprehensively plan and finance infrastructure and provide for amenity-based improvements. In these cases, no amendment of the planning horizon is necessary provided project phasing is recognized in the Sphere of Influence Plan.

2. Plan for Services

   Every proposal must include a Plan for Services that addresses the items identified in Section 56653 of the Government Code. The Plan for Services must be consistent with the Municipal Service Review of the Agency. Proponents must demonstrate that the city or special district is capable of meeting the need for services.

3. Contiguity

   Territory proposed to be annexed to a city must be contiguous to the annexing city or district unless specifically allowed by statute. Territory is not contiguous if the only connection is a strip of land more than 300 feet long and less than 200 wide, that width to be exclusive of highways. The boundaries of a proposed annexation or reorganization must not create or result in areas that are difficult to serve.

4. Development within Jurisdiction

   Development of existing vacant or non-prime agricultural lands for urban uses within the existing jurisdiction or within the sphere of influence should be encouraged before any proposal is approved which would allow for or lead to the development of existing open space lands for non-open space uses which are outside of the existing jurisdiction of the local agency or outside of the existing sphere of influence of the local agency. (Section 56377)

5. Progressive Urban Pattern

   Annexations to agencies providing urban services shall be progressive steps toward filling in the territory designated by the affected agency's adopted sphere of influence. Proposed growth shall be from inner toward outer areas.

6. Piecemeal Annexation Prohibited

   LAFCo requires annexations and detachments to be consistent with the schedule for annexation that is contained in the agency's Sphere of Influence Plan. LAFCo will modify small piece-meal or irregular annexations, to include additional territory in order to promote orderly annexation and logical boundaries, while maintaining a viable proposal. In such cases, detailed development plans may not be required for those additional areas but compliance with CEQA is required.

7. Annexations to Eliminate Islands

   Proposals to annex islands or to otherwise correct illogical distortion of boundaries will normally be approved unless they would violate another provision of these standards. In order to avoid the creation of an island or to encourage the elimination an existing island, detailed development plans may not be required for the remnant areas.

8. Annexations that Create Islands

   An annexation will not be approved if it will result in the creation of an island of unincorporated territory of otherwise cause or further the distortion of existing boundaries. The Commission may nevertheless approve such an annexation where it finds that the application of this policy would be detrimental to the orderly development of the community and that a reasonable effort has been made to include the island in the annexation but that inclusion is not feasible at this time.

9. Substantially Surrounded

   For the purpose of applying the provisions of the Cortese-Knox-Hertzberg Act regarding island annexation without protest hearings (Section 56375.5), the subject territory of an annexation proposal shall be deemed "substantially surrounded" if it is within the sphere of influence of the affected city and two-thirds (66-2/3%) of its boundary is surrounded by the affected city.

10. Definite and Certain Boundaries

    All boundaries shall be definite and certain and conform to lines of assessment or ownership. The Commission's approval of boundary change proposals containing split parcels will typically be subject to a condition requiring the recordation of a parcel map, lot line adjustment or other instrument to avoid creating remnants of legal lots.

11. Service Requirements

    An annexation shall not be approved merely to facilitate the delivery of one or a few services to the determent of the delivery of a larger number of services or service more basic to public health and welfare.

12. Adverse Impact of Annexation on the Other Agencies

    LAFCo will consider any significant adverse effects upon other service recipients or other agencies serving the area and may condition any approval to mitigate such impacts. Significant adverse effects shall include the effect of proposals that negatively impact special districts' budgets or services or require the continuation of services without the provision of adequate funding. LAFCo will not approve detachments from special districts or annexations that fail to provide adequate mitigation of the adverse impact on the district. LAFCo may determine an appropriate temporary mitigation, if any, and impose that temporary mitigation to the extent it is within its powers. If the needed mitigation is not

within LAFCo's authority and approval would, in the opinion of the Commission, seriously impair the District's operation, the Commission may choose to deny the application.

13. District's Proposal to Provide new, different, or Divestiture of a Particular Function or Class of Services

    In addition to the plan for services specified in Section 2 of these Policies and Procedures any application for a new, different, or divestiture of a service shall also include the requirements outlined in Section 56824.12 of the Government Code. Applications for such request will be considered a change of organization and shall follow the requirements of such an application as outlined in the Cortese-Knox-Hertzberg Act and within these policies and procedures. The factors enumerated in Sections 56668 and 56824.14 of the Government Code shall be considered by the Commission at the time of consideration of the application for such functions.

14. Disadvantaged Unincorporated Communities

    Disadvantaged Unincorporated Communities (DUCs) are those territories shown in Exhibit A or as may be shown in a city municipal service review and sphere of influence plan.

    The Commission shall not approve an annexation to a city or any territory greater than 10 acres where there exists a disadvantaged unincorporated community (DUC) that is contiguous to the area of proposed annexation, unless a concurrent application to annex all or a portion of the DUC to the subject city has been filed. An application to annex a DUC shall not be required if either of the following applies:

    1. A prior application for annexation of the territory has been made in the preceding five years.

    2. The Commission finds, based upon written evidence, that a majority of the registered voters within the DUC are opposed to annexation.

       Written evidence can be a scientific survey conducted by an academic institution or professional polling company.

15. Protest Procedures

    The Commission delegates the conducting authority functions and responsibilities to the LAFCo Executive Officer pursuant to Government Code Section 57000.

City Annexations

1. Annexation of Streets

   Annexations shall reflect the logical allocation of streets and rights of way as follows:

   - Territory should be included within the annexation to assure that the city reasonably assumes the burden of providing adequate roads to the property to be

annexed. LAFCo will require cities to annex streets where adjacent lands that are in the city will generate additional traffic or where the annexation will isolate sections of county road. Cities shall include all contiguous public roads that can be included without fragmenting governmental responsibility by alternating city and county road jurisdiction over short section of the same roadway.

- When a street is a boundary line between two cities the centerline of the street may be used as the boundary or may follow a boundary reached by agreement of the affected cities.

2. Pre-zoning Required

   The Cortese-Knox-Hertzberg Act requires the city to pre-zone territory to be annexed, and prohibits subsequent changes to the General Plan and /or pre-zoning designations for a period of two years after completion of the annexation, unless the city council makes a finding at a public hearing consistent with the provisions of Governments Code Section 56375(e). In instances where LAFCo amends a proposal to include additional territory, the Commission's approval of the annexation will be conditioned upon the pre-zoning of the new territory.

LAFCo Procedures for the California Environmental Quality Act (Adopted June 20, 2007)

LAFCO AS RESPONSIBLE AGENCY

When LAFCo is a Responsible Agency, the Commission shall certify that it has reviewed the Lead Agency's environmental documents and, if required, adopt findings for approval and statements of overriding considerations in accordance with Sections 15091 and 15903 of the CEQA Guidelines.

1. Consultation: The Executive Officer shall respond to consultation by the Lead Agency to assure that the environmental document will be adequate for LAFCo's use. The Executive Officer shall reply certified mail within 30 days after receiving a Notice of Preparation from the Lead Agency.

2. Comments: The Executive Officer shall submit comments to the Lead Agency on draft EIRs and Negative Declarations concerning the adequacy or appropriateness of the document. The comments shall be limited to those project activities which are related to LAFCo's area of expertise or which will be required to be considered by LAFCo.

3. Adequacy of EIR or Negative Declaration: If the Executive Officer finds that the Negative Declaration or EIR prepared by the Lead Agency is not adequate for LAFCo use, the Executive Officer shall bring the matter to the Commission prior to 30 days after the Lead Agency files a Notice of Determination.

4. Final EIR or Negative Declaration: The Executive Officer shall provide the final EIR or Negative Declaration to Commissioners prior to, or along with, the Staff Report.

5. Findings and Statements: The Executive Officer shall prepare, or cause to be prepared, "draft" Findings and Statements, findings for approval, and statements of overriding considerations for Commission consideration.

6. Notice of Determination: The Executive Officer shall file a Notice of Determination within 5 working days after deciding to carry out or approve the project.

3.10.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on land use, population, or housing if it will:

- Physically divide an established community;
- 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;

IMPACTS AND MITIGATION MEASURES

Impact 3.10-1: The proposed Project would not physically divide an established community (No Impact)

The Project site is located at the northern edge of the City of Lathrop city limits and is adjacent primarily to undeveloped agricultural land to the north, south, and west. The Project would provide roadways to connect the Project site to the existing circulation system and to allow access to and from the site. Development of the Project site would not result in physical barriers, such as a highway, wall, or other division, that would divide an existing community, but would serve as an orderly extension of existing and planned development. The Project would have ***no impact*** in regards to the physical division of an established community.

Impact 3.10-2: The proposed Project would not conflict with an applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project adopted to avoid or mitigate an environmental effect. (Less than Significant)

CONSISTENCY WITH SAN JOAQUIN COUNTY LAFCO

The project site is currently in an unincorporated portion of San Joaquin County adjacent to the City of Lathrop's city limits and within the City's Sphere of Influence (SOI). The proposed Project requires annexation of the project site into the city limits.

LAFCo is serving as a responsible agency for this EIR pursuant to their LAFCo Procedures for the California Environmental Quality Act (Adopted June 20, 2007). When LAFCo is a Responsible Agency under CEQA, in order to approve the annexation, the Commission will certify that it has reviewed the Lead Agency's environmental documents and, if required, adopt findings for approval and

statements of overriding considerations in accordance with Sections 15091 and 15903 of the CEQA Guidelines. The City of Lathrop has consulted LAFCo. The consultation process included sending LAFCo a copy of the Notice of Preparation during the 30-day public review period. LAFCo will also be sent a copy of the Draft EIR during the 45-day public review period and the Final EIR for their use in the annexation process. If the Executive Officer determines that the Draft and Final EIR are adequate for their use, he/she will prepare, or cause to be prepared, "draft" Findings and Statements, findings for approval, and statements of overriding considerations for LAFCo Commission consideration. If the LAFCo Commission approves the annexation, the Executive Officer will file a Notice of Determination within five working days after deciding to approve the annexation.

The San Joaquin LAFCo will review the proposed annexation for consistency with the *LAFCo Change of Organization Policies and Procedures (Including Annexations and Reorganizations)*. These policies and procedures govern San Joaquin LAFCo determinations regarding annexations to all agencies. The following policies will be reviewed as part of the annexation process by the San Joaquin LAFCo.

GENERAL STANDARDS FOR ANNEXATION AND DETACHMENT

1. Spheres and Municipal Service Reviews: This policy requires an annexation to be consistent with the internal planning horizon of the SOI, which means that the land would normally lie within the first planning increment (5-10 year) boundary. The annexation must also only be approved if the Municipal Services Review and the SOI Plan demonstrates that adequate services can be provided with the timeframe needed by the annexed area. Proposed annexations that lie outside of the first planning increment (5-10 year) boundary are presumed to be inconsistent with the Sphere Plan and must first request a sphere amendment prior to proceeding with the annexation. The Lathrop Municipal Services Review and Sphere of Influence Plan identifies the Project Site within the first planning increment; therefore, a sphere amendment prior to proceeding with the annexation and an update to the Lathrop Municipal Service Review and Sphere of Influence Plan will not be required.

2. Plan for Services: This policy states that every proposal must include a Plan for Services that addresses the items identified in Section 56653 of the Government Code. The Plan for Services must be consistent with the Municipal Service Review of the Agency.

   The Draft EIR assesses service capacity and demands for these services. There are not any service deficiencies noted by the City of Lathrop, or contained within this EIR that are anticipated to occur after installation of infrastructure. The proposed Project is within the Lathrop Water Service Area boundary, and the Wastewater Service Area boundary as defined by LAFCo.

3. Contiguity: This policy requires the land to be annexed to be contiguous to the city. Territory is not contiguous if the only connection is a strip of land more than 300 feet long and less than 200 wide, that width to be exclusive of highways. The boundaries of a proposed annexation or reorganization must not create or result in areas that are difficult to serve.

The proposed Project is contiguous to the Lathrop city limits along the eastern boundary of the Project Site.

4. Development within Jurisdiction: This policy encourages development of existing vacant or non-prime agricultural lands for urban uses within the existing jurisdiction or SOI before approval that would lead to the development of existing open space lands for non-open space uses.

   The Project Site is located in vacant land with a portion designated for development under the General Plan. Additionally, there are agricultural resources located adjacent to the proposed Project Site. There are no Williamson Act contracts on, or adjacent to the project site, however, the Department of Conservation Farmland Mapping and Monitoring Program (FMMP) delineates Prime Farmland and Farmland of Local Importance adjacent to the project site. The proposed Project Site is not designated by the City of Lathrop for agricultural uses, however a portion of the proposed Project Site is designated by the San Joaquin County for agricultural uses.

5. Progressive Urban Pattern: This policy states that annexations shall be progressive steps toward filling in the territory designated by the SOI. Proposed growth shall be from inner toward outer areas.

   The proposed Project would develop an area adjacent to the Lathrop city limits and continue the pattern of urbanization, including commercial highway uses, that occurs within the City limits to the east of the proposed Project Site.

6. Piecemeal Annexation Prohibited: This policy requires annexations to be consistent with the schedule for annexation that is contained in the agency's Sphere of Influence Plan. LAFCo will modify small piece-meal or irregular annexations, to include additional territory in order to promote orderly annexation and logical boundaries, while maintaining a viable proposal. In such cases, detailed development plans may not be required for those additional areas but compliance with CEQA is required.

   As mentioned previously, annexation of the Project Site is contiguous with the city limits to provide for a logical and orderly development pattern.

7. Annexations to Eliminate Islands: This policy states that proposals to annex islands or to otherwise correct illogical distortion of boundaries will normally be approved unless they would violate another provision of these standards. In order to avoid the creation of an island or to encourage the elimination an existing island, detailed development plans may not be required for the remnant areas.

   The proposed annexation includes lands contiguous with the current city limits and connected partials within the SOI. Parcels proposed for annexation do not involve the creation of or the elimination of islands.

8. Annexations that Create Islands: This policy states that an annexation will not be approved if it will result in the creation of an island of unincorporated territory of otherwise cause or further the distortion of existing boundaries. The Commission may nevertheless approve such an annexation where it finds that the application of this policy would be detrimental to the orderly development of the community and that a reasonable effort has been made to include the island in the annexation but that inclusion is not feasible at this time.

   The proposed annexation includes lands contiguous with the current city limits and connected partials within the SOI. Parcels proposed for annexation do not involve the creation of islands.

9. Substantially Surrounded: This policy states that for the purpose of applying the provisions of the Cortese-Knox-Hertzberg Act regarding island annexation without protest hearings (Section 56375.5), the subject territory of an annexation proposal shall be deemed "substantially surrounded" if it is within the sphere of influence of the affected city and two-thirds (66-2/3%) of its boundary is surrounded by the affected city.

   As previously stated, the proposed annexation does not involve island annexation. Therefore, this policy is not relevant to the proposed annexation.

10. Definite and Certain Boundaries: This policy states that all boundaries shall be definite and certain and conform to lines of assessment or ownership. The Commission's approval of boundary change proposals containing split parcels will typically be subject to a condition requiring the recordation of a parcel map, lot line adjustment or other instrument to avoid creating remnants of legal lots.

    The proposed annexation boundaries are definite and certain and conform to lines of ownership.

11. Service Requirements: This policy states that an annexation shall not be approved merely to facilitate the delivery of one or a few services to the determent of the delivery of a larger number of services or service more basic to public health and welfare.

    The proposed annexation is not merely to facilitate the delivery of one or a few services to the determent of the delivery of a larger number of services or service more basic to public health and welfare. As stated further in the Public Services (Section 3.11) and Utilities (Section 3.13), the City had adequate service capacity to serve the proposed Project without reducing the adequacy of services elsewhere. Therefore, the proposed annexation is consistent with this policy.

12. Adverse Impact of Annexation on the Other Agencies: This policy states that LAFCo will consider any significant adverse effects upon other service recipients or other agencies serving the area and may condition any approval to mitigate such impacts. Significant adverse effects shall include the effect of proposals that negatively impact special districts'

budgets or services or require the continuation of services without the provision of adequate funding. LAFCo will not approve annexations that fail to provide adequate mitigation of the adverse impact on the district. LAFCo may determine an appropriate temporary mitigation, if any, and impose that temporary mitigation to the extent it is within its powers. If the needed mitigation is not within LAFCo's authority and approval would, in the opinion of the Commission, seriously impair the District's operation, the Commission may choose to deny the application.

This EIR includes an assessment of the impacts of the proposed Project and proposed annexation on service agencies. The development of the proposed Project and proposed annexation would not result in any significant, adverse impacts to any of the service agencies such that it would seriously impair operation.

13. District's Proposal to Provide new, different, or Divestiture of a Particular Function or Class of Services: This policy relates to proposals for new, different, or divestiture of services, which is not relevant to the proposed annexation.

14. Disadvantaged Unincorporated Communities: This policy prohibits an annexation where a Disadvantaged Unincorporated Community (DUC) is contiguous to the area of proposed annexation, unless a concurrent application to annex all or a portion of the DUC to the subject city has been filed. The Project Site is not within or contiguous to an area designated as a DUC. This policy is not relevant to the proposed annexation.

CITY ANNEXATIONS

1. Annexation of Streets: This policy states that annexations shall reflect the logical allocation of streets and rights of way to assure that the city reasonably assumes the burden of providing adequate roads to the property to be annexed. LAFCo will require cities to annex streets where adjacent lands that are in the city will generate additional traffic or where the annexation will isolate sections of county road. Cities shall include all contiguous public roads that can be included without fragmenting governmental responsibility by alternating city and county road jurisdiction over short section of the same roadway. When a street is a boundary line between two cities the centerline of the street may be used as the boundary or may follow a boundary reached by agreement of the affected cities.

2. Pre-zoning Required: This policy states that the Cortese-Knox-Hertzberg Act requires the city to pre-zone territory to be annexed, and prohibits subsequent changes to the General Plan and /or pre-zoning designations for a period of two years after completion of the annexation.

   The proposed Project includes the adoption of pre-zoning for the proposed annexation area, which will serve to regulate the uses of land and structures within the project area. The area will be pre-zoned to the zoning district Highway Commercial and will be subject to the development standards as described in the Zoning Ordinance. The Zoning Ordinance is

proposed to ensure consistency between land use and zoning designations. The proposed annexation is consistent with this policy.

The policies discussed above are intended to ensure orderly reorganization to local jurisdictional boundaries, including annexations. Ultimately, LAFCo will determine whether the proposed annexation would first require an SOI amendment to address the timing of the annexation and also whether an update to the Lathrop Municipal Service Review and Sphere of Influence Plan is needed in order to approve the annexation. This LAFCo policy was not specifically adopted to avoid or mitigate an environmental effect, rather it is intended to ensure orderly and logical reorganization to local jurisdiction boundaries, including annexations. The proposed Project is consistent with LAFCo policies adopted to address environmental impacts, specifically impacts to agricultural lands and public services. As such, implementation of the proposed Project will have a ***less than significant*** impact relative to this topic.

CONSISTENCY WITH THE SAN JOAQUIN COUNTY GENERAL PLAN

The proposed Project would annex the proposed annexation area into the City of Lathrop. At such time, the County GP would no longer regulate development on the project site. Therefore, implementation of the proposed Project, including the annexation, would have a ***less than significant*** impact relative to the County GP.

CONSISTENCY WITH THE CITY OF LATHROP GENERAL PLAN

The proposed Project would result in the annexation of a total of two parcels totaling approximately 21.7 acres into the City of Lathrop. Parcel 1 is located inside the City's SOI and currently does not have a land use designation. Parcel 2 is located within the City's SOI and is designated Freeway Commercial (FC). Consistency with the General Plan's land use and environmental requirements and policies are addressed in each individual section of this EIR.

Additionally, the Project is consistent with most of the applicable General Plan policies that aim to avoid or mitigate an environmental effect. As shown in Table 3.10-3, the Project is consistent with many of the City's General Plan policies.

TABLE 3.10-3: GENERAL PLAN POLICY CONSISTENCY

GENERAL PLAN POLICY	*PROJECT CONSISTENCY*
LAND USE	
LU-1.1 Support a full spectrum of conveniently located residential, commercial, industrial, public, and quasi-public uses that support business development, regional transportation objectives and the livability of residential neighborhoods.	**Consistent:** The Project includes the development of commercial retail space which would support business development within the City of Lathrop by providing regional transportation facilities.
LU-1.9 Promote equitable land use patterns to provide all residents in all neighborhoods access to community amenities and transportation choices, and	**Consistent:** The Project provides amenities to residents which support all transportation choices, such as fuel and commercial service facilities. One of the Project objectives is to provide visitor-serving facilities that maximize the

GENERAL PLAN POLICY	*PROJECT CONSISTENCY*
increase safety for walking and biking.	benefits of the Project site's proximity to I-5 for all buildings and tenants and thereby minimize traffic generation on local streets by visitors exiting and reentering the freeway. By minimizing traffic generated on local streets, conflicts between truck and automobile traffic and walkers and bikers would reduce.
LU-3.1 Support regional efforts that promote higher densities and intensities near major transit and travel facilities, and reduce regional vehicle miles traveled by supporting active modes of transportation including walking, biking, and public transit.	**Does not conflict.** The Project site is designated for freeway commercial uses in the City's General Plan. The Project would result in development of freeway supporting uses (i.e., travel center and gasoline facilities) adjacent to I-5, which is a major travel facility. Impacts associated with VMT are discussed in Impact 3.13-2 in Section 3.13. As described in Section 3.13, Transportation and Circulation, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average. The proposed Project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee.
LU-3.4 Promote logical City boundaries and work with surrounding jurisdictions to encourage complementary uses. Specifically, work with the City of Manteca and San Joaquin County to ensure development of complementary and compatible uses adjacent to Lathrop.	**Consistent:** The Project site is located in the portion of the City adjacent to I-5. The site has been anticipated for development of freeway commercial as part of the City's General Plan. The Project would result in development of freeway supporting uses (i.e., travel center and gasoline facilities) adjacent to I-5, which is a major travel facility.
LU-4.2 Emphasize efforts to reduce regional vehicle miles traveled (VMT) by supporting land use patterns and site designs that promote active modes of transportation, and public transit.	**Does not conflict.** The Project site is designated for freeway commercial uses in the City's General Plan. Impacts associated with VMT are discussed in Impact 3.13-2 in Section 3.13. As described in Section 3.13, Transportation and Circulation, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average. The proposed Project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee.
LU-5.1 Require new development to be compatible and complementary to existing development. Where appropriate and feasible, promote connections between neighborhoods and services and facilities.	**Consistent.** The Project is a new development which is compatible with surrounding and adjacent buildings and public spaces. The existing land adjacent to the Project site includes mainly vacant land. Existing freeway commercial and industrial uses are located directly across interstate I-5 from the project site. The proposed industrial and commercial uses would be constructed in a similar form and scale as the existing freeway commercial, retail, and service uses within the City of Lathrop.

GENERAL PLAN POLICY	*PROJECT CONSISTENCY*
LU-5.6 In considering land use change requests, consider factors such as compatibility with surrounding uses in terms of privacy, noise, and changes in traffic levels.	**Consistent:** The Project includes buffer areas and screening from adjacent uses along the perimeter of the Project site.
LU-6.1 Capitalize on Lathrop's location within the Central Valley, proximity to major metropolitan areas, and regional transportation facilities.	**Consistent.** The proposed Project is considered small-scale and would provide jobs and local revenue for the city. The proposed Project would generate employment- and tax-generating businesses which would support the economic diversity of the city. Additionally, the Project area is located near existing I-5 for the transport of goods that support business development and serve regional transportation. The Project would result in development of freeway supporting uses (i.e., travel center and gasoline facilities) adjacent to I-5, which is a regional transportation facility.
LU-6.2 Support the reuse, renovation, or redevelopment of aging centers or commercial uses that are no longer viable due to changing market conditions, demographics, or retail trends into areas that support mixed use opportunities.	**Does Not Conflict.** The proposed Project site is considered to be vacant, undeveloped, and underutilized. The Project site is not located in an aging center or commercial use area. The Project site is designated for freeway commercial uses in the City's General Plan. Additionally, the Project would not prevent the City from developing and/or redeveloping vacant, underutilized, or undeveloped areas of the City.
LU-7.1 Encourage San Joaquin County to retain existing agricultural land use designations in areas outside of the Lathrop SOI.	**Does Not Conflict:** The Project site is located within the Lathrop SOI.
LU-7.2 Support the continuation of agricultural operations and activities on lands adjacent to the SOI and within the City's Area of Influence.	**Does Not Conflict:** The Project site is located within the Lathrop SOI. As discussed in Section 3.2, Agricultural Resources, the proposed project includes adequate measures to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses, while supporting ongoing agricultural operations in areas within and surrounding the proposed Project.
LU-7.3 Allow and support the continuation of agricultural operations on lands within the City limits which are designed for urban uses until such time as urban development is proposed for the land.	**Consistent:** The Project site is not located within the City limits. Nevertheless, the proposed Project provides a landscaping buffer between the southern and western portions of the Project site and existing agricultural operations located to the south and west. The retention pond along the western boundary measures approximately 60 ft. from the western boundary line and the retention pond to the southwestern corner measures approximately 266 ft. from the western boundary line and approximately 228 ft. from the southern boundary line. Together, the retention ponds provide sufficient buffer to protect the agriculture operations from the impacts of the development of the Project site, as buffers typically consistent of a minimum of 5 to 10 ft., according to Chapter 17.92 Landscaping and Screening requirements of

GENERAL PLAN POLICY	*PROJECT CONSISTENCY*
	the City of Lathrop Municipal Code. Phase II of the Project provides landscaping buffers to the north from the Project site, along the northern project boundary. This includes a 10 ft. width landscaping strip along the northern Project boundary in order to provide buffering from agricultural operations in order to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses
LU-7.4 Ensure that new urban uses which are proposed adjacent to lands designated for agricultural uses include adequate buffers to reduce potential land use conflicts and nuisance impacts to sensitive receptors	**Consistent:** The Project site is not located within the City limits. Nevertheless, the proposed Project provides a landscaping buffer between the southern and western portions of the Project site and existing agricultural operations located to the south and west. The retention pond along the western boundary measures approximately 60 ft. from the western boundary line and the retention pond to the southwestern corner measures approximately 266 ft. from the western boundary line and approximately 228 ft. from the southern boundary line. Together, the retention ponds provide sufficient buffer to protect the agriculture operations from the impacts of the development of the Project site, as buffers typically consistent of a minimum of 5 to 10 ft., according to Chapter 17.92 Landscaping and Screening requirements of the City of Lathrop Municipal Code. Phase II of the Project provides landscaping buffers to the north from the Project site, along the northern project boundary. This includes a 10 ft. width landscaping strip along the northern Project boundary in order to provide buffering from agricultural operations in order to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses.
CIRCULATION	
CIR-1.2 Complete Streets. Consider all modes of travel in planning, design, and construction of all transportation projects to create safer, more livable, and more inviting environments for pedestrians, bicyclists, motorists and public transit users of all ages and capabilities.	**Consistent:** The Project provides facilities and amenities which serve all modes of transportation. As discussed in Mitigation Measure 3.13-1, the Project is required to construct sidewalks and pedestrian facilities along Roth Road and Manthey Road. The design of the driveways will be reviewed and approved by the Director of Engineering/City Engineer.
CIR-2.2 Safety. Improve safety conditions, efficiency, and comfort for bicyclists and pedestrians by providing shade trees and controlling traffic speeds by implementing narrow lanes or other traffic calming measures.	**Consistent:** As discussed above, sidewalks would be constructed along the project frontage on Roth Road and Manthey Road. Additionally, trees would be provided throughout the site, including existing and proposed roadways, along sidewalks, and within the parking areas. All intersections and street sections would be reviewed by the City of Lathrop and designed to comply with typical City standards. Furthermore, As discussed in Mitigation Measure 3.13-1, the Project is required to construct sidewalks along Roth Road and Manthey Road. The

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	driveways on Manthey Road and Roth Road will be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels/homes. The design of the driveways will be reviewed and approved by the Director of Engineering/City Engineer. The Project also provides shade trees throughout the Project site and includes adequate parking space and circulation entering and exiting the Project site.
CIR-2.4 Transit Access. Provide safer, more convenient access to transit service including rail, bus, and paratransit.	**Does Not Conflict:** The Project does not include transit service within the vicinity of the Project site.
CIR-2.5 Amenities. To support bicycle, pedestrian, and transit usage, provide amenities including pedestrian-scale lighting, bicycle parking, shade trees and landscaping, and bus shelters and benches.	**Consistent:** The Project provides landscaping, pedestrian-scale lighting, and shade trees throughout the Project site.
CIR-4.1 Land Use Supporting Reduced VMT. Support land use with increased land use densities and mixed uses, consistent with the Land Use Element, to reduce vehicle miles traveled and promote the use of walking, biking, and transit.	**Does Not conflict:** The Project is proposed to primarily serve highway commercial uses and travelers. As described in Section 3.13, Transportation and Circulation, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average. The proposed Project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee.
PUBLIC FACILITIES AND SERVICES	
PFS-1.8 Cost Recovery. Recover the direct upfront costs and indirect long-term costs of providing services and facilities to new development through a combination of fees, exactions, and other methods based on an evaluation of long-term economic benefits and in a manner consistent with the City's cost recovery goals.	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.
PSF-1.13 Demonstrate Capacity. Require new development to demonstrate that the City's public services and facilities can accommodate the increased demand for said services and facilities associated with the project as part of the entitlement process.	**Consistent.** Impacts on utilities infrastructure, including wastewater, are discussed in Section 3.14, Utilities and Service Systems; impacts on public services are discussed in 3.12 Public Services and Recreation. The Project would provide all necessary infrastructure required to serve the Project site. The infrastructure improvements are consistent with City infrastructure plans and capacity requirements. Furthermore, the City collects impact fees from new development based upon projected impacts from each development. The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and public service providers to finance public services.
PFS-1.14 Mitigate Impacts. Require new	**Consistent.** Impacts on utilities infrastructure, including wastewater, are discussed in Section 3.14, Utilities and

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development to offset or mitigate impacts to community services and facilities to ensure that service levels for existing users are not degraded or impaired by new development, to the satisfaction of the City.	Service Systems. The Project would provide all necessary infrastructure required to serve the Project site. The infrastructure improvements are consistent with City infrastructure plans and capacity requirements. Furthermore, the City collects impact fees from new development based upon projected impacts from each development. The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and public service providers to finance public services.
PFS-2.6 Fair Share Cost. Ensure that all new development provides for and funds a fair share of the costs for adequate water source, distribution, including line extensions, easements, and water treatment plant expansions.	**Consistent.** As discussed above, the Project would provide all necessary infrastructure required to serve the Project site. The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.
PFS-3.1 Wastewater Infrastructure. Ensure adequate wastewater collection and treatment infrastructure to serve existing and future development.	**Consistent.** Impacts on utilities infrastructure, including wastewater, are discussed in Section 3.14, Utilities and Service Systems. The Project would provide all necessary infrastructure required to serve the Project site. The infrastructure improvements are consistent with City infrastructure plans and capacity requirements.
PFS-3.5 Development Review. Review new development applications in order to ensure that new growth does not exceed the availability of adequate sewage treatment capacity or predate the presence of necessary infrastructure.	**Consistent.** Impacts on utilities infrastructure, including wastewater, are discussed in Section 3.14, Utilities and Service Systems. The Project would provide all necessary infrastructure required to serve the Project site. The infrastructure improvements are consistent with City infrastructure plans and capacity requirements. The Project would not result in exceedance of the treatment capacity of the local sewage treatment plant.
PFS-3.6 Fair Share Cost. Ensure that all new developments provide for and fund their fair share of the costs for adequate sewer collection, treatment and disposal, including line extensions, easements, and dedications.	**Consistent.** As discussed above, the Project would provide all necessary infrastructure, including wastewater infrastructure, required to serve the Project site. The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.
PFS-4.1 Maintain Capacity. Maintain and improve storm drainage infrastructure and flood control facilities in order to protect the community from flood hazards.	**Consistent.** As discussed in Chapter 2.0, Project Description, development of the proposed Project would include construction of a new storm drainage system. Stormwater generated on this new impervious surface would be routed through on-site pipes to the proposed drainage retention basin located in the southern portion of the Project site. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200

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	percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours. The stormwater drainage system will be constructed to meet the City of Lathrop Standards.
PFS-4.5 Development Review. Continue to require all development projects to: **a. Demonstrate how storm water runoff will be detained or retained on-site and/or conveyed to the nearest drainage facility as part of the development review process and as required by the City's Small MS4 Phase 2 permit; and** **b. Analyze their drainage and stormwater conveyance impacts and either demonstrate that the City's existing infrastructure can accommodate increased stormwater flows, or make the necessary improvements to mitigate all potential impacts.**	**Consistent.** As discussed above, Project Description, development of the proposed Project would include construction of a new storm drainage system. Stormwater generated on this new impervious surface would be routed through on-site pipes to the proposed drainage retention basin located in the southern portion of the Project site. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200 percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours. The stormwater drainage system will be constructed to meet the City of Lathrop Standards.
PFS-4.6 Stormwater Runoff. Stormwater runoff may be directed towards permeable surfaces to the greatest extent feasible to allow for more percolation of stormwater into the ground.	**Consistent.** As discussed in Chapter 2.0, Project Description, development of the proposed Project would include construction of a new storm drainage system. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. As such, stormwater would be directed towards permeable surfaces to allow for more percolation of stormwater.
PFS-4.7 Stormwater Capture. Encourage the use of professionally designed stormwater capture methods to aid in the reuse of rain water for non-potable uses in compliance with applicable State regulations.	**Consistent.** As discussed in Chapter 2.0, Project Description, development of the proposed Project would include construction of a new storm drainage system. The stormwater drainage system will be constructed to meet the City of Lathrop Standards. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.
PFS-4.8 Stormwater Treatments. Promote Best Management Practices (BMPs) and Low Impact Development measures (LID) to treat stormwater before discharge from the site. The facilities shall be sized to meet regulatory requirements.	**Consistent.** As discussed in Chapter 2.0, Project Description, development of the proposed Project would include construction of a new storm drainage system. Storm water service will be provided by a private storm water infiltration basin located within the Project boundaries. The stormwater drainage system will be constructed to meet the City of Lathrop Standards. In

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	addition, A 7.5-foot-deep private storm water retention basin would be located in the southern portion and a landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.
PFS-5.4 New Development. Continue to require new development and redevelopment to provide verification from energy providers that states they are able to accommodate the additional demand for service.	**Consistent.** The proposed Project would be in compliance with all applicable federal, State, and local regulations regulating energy usage. For example, PG&E, the electric providers to the proposed Project, are responsible for the mix of energy resources used to provide electricity for its customers, and it is in the process of implementing the statewide RPS to increase the proportion of renewable energy (e.g. solar and wind) within its energy portfolio. The proposed Project would also be required to implement the applicable Title 24 energy efficiency requirements, as well as other State requirements, such as the California Solar Mandate, as well as all applicable regional and local requirements that affect energy efficiency. .
PFS-8.5 Financing and Proportionate Share. Encourage the local school districts to properly collect required development fees so that new development funds its proportionate share of the Districts' costs for new school facilities.	**Consistent.** As discussed in Section 3.12, Public Services and Recreation, the Manteca Unified School District (MUSD) collects impact fees from new developments under the provisions of SB 50. As of July 27, 2022 the current Level I Developer Fees for commercial and industrial development are $0.78 per square foot. The Project would be subject to these fees.
PFS-9.1 Refuse Collection. Continue to require mandatory refuse collection throughout the city.	**Consistent:** The Project includes refuse collection facilities on-site. The refuse would be collected periodically, as warranted.
PFS-9.2 Source Reduction and Recycling Program. Implement and enforce the provisions of the City's Source Reduction and Recycling Program.	**Consistent.** Impacts on utilities infrastructure (including solid waste) are discussed in Section 3.14, Utilities and Service Systems.
PFS-9.3 Compliance with State Legislation. Continue to comply with all State regulations regarding waste diversion, source reduction, recycling, and composting.	**Consistent.** Section 8.16 of the Lathrop Municipal Code provides rules and regulations regarding garbage collection and disposal. It includes a list of hazardous materials (8.16.050), prohibitions on the burning and burial of solid waste (8.16.060), rights of the City related to solid waste collection and transportation (8.16.090), a list of requirements for the contractor for solid waste collection and transportation (8.16.100), restrictions on solid waste collection and transportation (8.16.110), a description of billing and collection fees (8.16.160), the garbage collection rate schedule (8.16.170), permit requirements (8.16.190), and a description of fees and other requirements. The project is subject to these requirements of the municipal code.

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PFS-9.5 Waste Service Performance and Collection Facilities. Support efforts of the solid waste service provider to maintain adequate residential, commercial, and industrial solid waste and mixed recycling collection service levels and solid waste facilities in accordance with state law, and periodically review waste collection performance to verify adequacy of service.	**Consistent.** Impacts on utilities infrastructure (including solid waste) are discussed in Section 3.14, Utilities and Service Systems. As discussed in section 3.14, Solid waste from Lathrop is primarily landfilled at the Forward Sanitary Landfill. The Forward Landfill has a remaining landfill capacity of over 22,100,000 tons, and has a current maximum permitted throughput of 8,668 tons per day. The Forward Landfill has a total maximum capacity of 59,160,000 cubic yards. The landfill has a permitted traffic volume of 620 vehicles per day. The addition of the volume of solid waste associated with the proposed Project, approximately 6.2 tons per day, would not exceed the Forward Landfill's remaining capacity. Existing landfills have permitted capacity to handle this additional waste.
PFS-9.6 Landfill Capacity. Continue to coordinate with San Joaquin County to ensure adequate landfill capacity in the region.	**Consistent.** As discussed previously, the Forward Sanitary Landfill has adequate capacity to provide solid waste services to the proposed Project.
PFS-9.9 Hazardous Waste. Promote the proper disposal of hazardous waste—including paint, tires, medications, medical sharps, infectious waste, asbestos waste, construction waste, and electronic waste; encourage materials to be recycled or disposed of in a manner that is safe for the environment, residents, and visitors to the city consistent with the Public Safety Element.	**Consistent.** The proposed Project would generate hazardous waste, such as tires, vehicle parts, vehicle fluids (motor oil, etc.), and construction waste. The City of Lathrop contracts with Republic Services for hazardous waste collection. Hazardous waste collection facilities receive hazardous waste that comes from homes and small business, including the project site, hazardous waste generators. Furthermore, Mitigation Measure 3.8-2 requires that the project applicant submit a Hazardous Materials Business Plan (HMBP) to the San Joaquin County Environmental Health Department (CUPA) for review and approval. If during the construction process the applicant or any subcontractors generates hazardous waste, the applicant must register with the CUPA as a generator of hazardous waste, obtain an EPA ID# and accumulate, ship and dispose of the hazardous waste per Health and Safety Code Ch. 6.5. (California Hazardous Waste Control Law).
PFS-10.5 Infrastructure. As feasible, require recycled water infrastructure including purple pipes to encourage the future use of reclaimed water for urban landscapes to be included in new development and infrastructure projects.	**Consistent.** Impacts on utilities infrastructure (sewer, water, storm drainage, and solid waste) are discussed in Section 3.14, Utilities. Water and sewer services for the proposed Project would be extended to the Project site from existing services from the intersection of Harlan Road and Roth Road east of I-5 and would include recycled water service, when it becomes available.
RECREATION AND RESOURCES	
RR-2.1:Open Space Boundaries. Maintain existing open space lands within the city by carefully considering the impact of new development in established open space areas.	**Does Not Conflict:** The Project site is not designated as Open Space by the City of Lathrop. The proposed Project would result in a land use consistent with the land use designation of the Project site. More specifically, the Project proposes the construction of freeway commercial

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	services, consisting of a new travel center with multiples facilities, gasoline and diesel refueling stations, service station, and parking lots.
RR-2.3 Scenic Resources. Protect the city's scenic resources, including scenic corridors along roads and views of the hillsides, waterways, and other significant natural features, to the extent practical.	**Does Not Conflict:** There are no designated State Scenic Highways in the vicinity of the Project site. There are also no County designated scenic corridors, trails, or rivers located in the Project site.
RR-3.1: Preservation. Protect areas containing significant historic, archaeological, and paleontological resources, as defined by the California Public Resources Code.	**Does Not Conflict:** No prehistoric or historic resources were found in the Project site. A record search was conducted for the current Area of Potential Effects (APE) and a 0.25-mile radius at the CCIC of the CHRIS on September 9, 2020 (Record Search File No.: 11495L). According to the Central California Information Center (CCIC) California Historical Resources Information System (CHRIS) results, the Project site has never been surveyed. There are no cultural or archaeological resources recorded in or near the Project site or search radius. However, one historic site remnant was found and recorded as ML-20-06 (described below) in a 2021 field survey effort. However, the building remnant has been recorded, and is not eligible for the California Register of Historical Resources (CRHR), and there are no significant cultural resources with the Project site.
RR-3.2: San Joaquin County Coordination. Coordinate with San Joaquin County to preserve local historic resources, conserve historical assets within the City, and allow for local community events to occur at these special locations.	**Does Not Conflict:** As noted above, no prehistoric or historic resources were found in the Project site. There are no cultural or archaeological resources recorded in or near the Project site or search radius.
RR-3.3: Human Remains. Ensure that human remains are treated with sensitivity and dignity, and ensure compliance with the provisions of California Health and Safety Code Section 7050.5 and California Public Resources Code Section 5097.98.	**Consistent:** While no human remains were found during field surveys of the Project site, implementation of the Mitigation Measure 3.5-1 would ensure that all construction activities which inadvertently discover human remains implement state-required consultation methods to determine the disposition and historical significance of any discovered human remains.
RR-3.4: Tribal Consultation. Consult with Native American tribes that may be impacted by proposed development, as necessary, and in accordance with state, local, and tribal intergovernmental consultation requirements.	**Consistent:** Peak & Associates contacted the NAHC for a check of the Sacred Lands files for the Project site. On October 19, 2020, the NAHC provided a reply with positive results from the Sacred Lands files search. Pursuant to both Assembly Bill (AB) 52 and Senate Bill (SB) 18, the City of Lathrop sent a letter to the Northern Valley Yokuts tribe, Buena Vista Rancheria, California Valley Miwok tribe, and the Confederated Villages of Lisjan on January 22, 2021. All correspondence related to the consultation effort are presented in Appendix 3 of Appendix C.

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RR-4.1: Sensitive Communities. Protect, conserve, and enhance Lathrop's biological resources, with a special focus on sensitive, rare, or endangered plant and wildlife species in accordance with state and federal resource agency requirements.	**Consistent:** This EIR includes an in-depth analysis of impacts related to biological resources, including the potential for impacts to sensitive, rare or endangered plants and wildlife, as well as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable. See Section 3.4, Biological Resources, of this EIR.
RR-4.2: Habitat Conservation. Support habitat conservation efforts to set aside and preserve suitable habitats, with priority given to habitats for rare and endangered species in accordance with state and federal resource agency requirements.	**Consistent:** This EIR provides a detailed overview of the applicable regulatory requirements to ensure the Project complies with all federal, State, and regional regulations for habitat and species protections. Additionally, this EIR includes an in-depth analysis of impacts for sensitive plants and wildlife, as well as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable. See Section 3.4, Biological Resources, of this EIR.
RR-4.3: Native Species. Conserve existing native trees and vegetation where possible and encourage the use of native species in development and infrastructure projects.	**Consistent:** The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter.
RR-4.4: Natural Water Bodies and Drainage Systems. Limit the disturbance of natural water bodies and drainage systems in Lathrop by conserving natural open space areas, protecting channels, and minimizing the impacts from stormwater and urban runoff.	**Does not Conflict:** There are no natural water bodies onsite. This EIR provides a detailed overview of the applicable regulatory requirements to ensure the Project complies with all federal, State, and regional regulations for habitat and species protections. Additionally, this EIR includes an in-depth analysis of impacts for sensitive plants and wildlife, as well as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable. See Section 3.4, Biological Resources, of this EIR.
RR-4.6: Urban Forest. To the extent feasible, build upon existing streetscapes and develop an urban forest along the City's major corridors and in residential neighborhoods to provide avian habitat, sequester carbon emissions, foster pedestrian activity, and provide shade.	**Consistent:** The landscape plan includes a mix of drought-tolerant shrubs and grasses, and a variety of shade trees appropriate for the climate in Tracy would be used throughout the parking lots and along the Project perimeter.
RR-4.11: Development. Require that all new development identify potential impacts to existing biological resources and provide mitigation measures as necessary pursuant to CEQA in order to protect these resources from negative externalities.	**Consistent:** This EIR provides a detailed overview of the applicable regulatory requirements to ensure the Project complies with all federal, State, and regional regulations for habitat and species protections. Additionally, this EIR includes an in-depth analysis of impacts for sensitive plants and wildlife, as well as habitat. Where impacts are identified, mitigation measures are presented to minimize, avoid, or compensate to the extent practicable. See Section 3.4, Biological Resources, of this EIR.
RR-7d: Review and regulate new development, infrastructure, and levee	The proposed Project is subject to the SJMSCP. The proposed Project does not conflict with the SJMSCP.

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improvement projects to ensure consistency with Federal and State flood and floodway requirements, including BDCP and Delta Plan policies as applicable.	Mitigation Measure 3.4-2 in Section 3.4 of this EIR requires participation in the SJMSCP.
RR-8.7: Groundwater Recharge. Promote the use of permeable surface materials and provide for ample areas of open space, including parks and greenways, and naturalized land, in order to decrease surface runoff and promote groundwater recharge.	**Consistent:** The proposed Project would result in new impervious surfaces and could reduce rainwater infiltration and groundwater recharge. The collection of rainwater for those areas of impervious surfaces will be routed into the proposed Project's storm drainage system. Stormwater would be gravity fed and eventually flow to the proposed retention basin. Once at the retention basin, water would percolate to the groundwater. As discussed in Impact 3.9-2 in Section 3.9, Hydrology and Water Quality, the Project would not decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin.
PUBLIC SAFETY	
PS-1.1. Geologic Hazard Identification. Review and monitor geologic and seismic hazards maps in concert with updates from the California Geologic Survey and local surveys.	**Consistent.** Project design would be subject to the California Building Code (CBC), which includes applicable safety and design standards related to geologic hazards. Additionally, a geotechnical evaluation has been completed for the Project, consistent with Sections 1803.1.1.2, 1803.5.11. and 1803.5.12 of the CBC. The geotechnical evaluation includes a review of hazard maps as well as soil sampling. See Section 3.6, Geology and Soils, of this EIR for discussions pertaining to geologic and seismic hazards.
PS-1.2 Earthquake Protection. Enforce State seismic design standards and guidelines and all relevant building codes to reduce the risk of damage associated with seismic activity.	**Consistent.** Project design would be subject to the CBC, which includes applicable safety and design standards related to seismic activity. Additionally, as discussed in Impact 3.6-1, the proposed Project would not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, including liquefaction, or landslides. See Section 3.6, Geology and Soils, of this EIR for discussions pertaining to seismic hazards.
PS-1.3 Development. Require special site-specific studies, generally including but not limited to, soil compaction tests and geotechnical reports, for development projects and City improvement projects to determine the nature and extent of	**Consistent.** As discussed in Section 3.6, a geotechnical evaluation has been completed for the Project, consistent with Sections 1803.1.1.2, 1803.5.11. and 1803.5.12 of the CBC. See Appendix D of this Draft EIR. The geotechnical evaluation determined the nature and extent of possible liquefaction, landslides, and geologic hazards, and to identify engineering and development siting measures to

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possible liquefaction, landslides, and geologic hazards, and to identify engineering and development siting measures to permit development to occur.	permit development to occur. Mitigation measures in Section 3.6 require that the recommendations in the geotechnical evaluation be implemented as part of the Project.
PS-1.4 Development Inspection. Require professional inspection of foundation, excavation, earthwork, and other geotechnical aspects of site development during constructions on those sites specified in geotechnical studies as being prone to seismic or geologic hazard.	**Consistent.** As discussed above, a geotechnical evaluation has been completed for the Project, consistent with Sections 1803.1.1.2, 1803.5.11. and 1803.5.12 of the CBC. The evaluation includes building requirements and recommendations, all of which are included in Section 3.6, Geology and Soils, of this EIR.
PS-1.6 Title 24 Compliance. Require all structures located within areas containing expansive soils to be designed and engineered to comply with the California Code of Regulations (CCR), Title 24.	**Consistent.** According to the Geotechnical Engineering Investigation prepared for the Project, the soils in the Project Area have a low shrink-swell potential. Project design would be subject to the California Code of Regulations (CCR), Title 24.
PS-2.1 Building Fire Codes. Require that all buildings and facilities within the city comply with local, state, and federal regulatory standards such as the California Building and Fire Codes, as well as other applicable fire safety standards, to minimize the risk of fire in the city.	**Consistent.** The proposed Project would be subject to the California Building Code, which requires the California Fire Code. In addition, Project design would be reviewed by the City and fire department for opportunities to use building and site design features as a means for fire prevention and reduction.
PS-2.2 Fire Protection Services. Coordinate with the Lathrop Manteca Fire Protection District (LMFD) in the provision of fire protection services to serve the city's current and future population and development.	**Consistent.** Impacts on Public Services and Recreation are discussed in Section 3.12. The city has adequate fire department capacity to provide fire protection services to the proposed Project.
PS-2.5: Roadway Design and Maintenance. Design and maintain roadways to maintain acceptable emergency vehicle response times.	**Consistent:** As discussed in Impact 3.13-4 in Section 3.14, the Project is designed to allow access for emergency vehicles into the Project site and would not impair emergency response.
PS-2.6: Water Supply. Ensure that new development is served with adequate water volumes and water pressure to support fire protection, including minimum required fire flow standards for commercial, industrial and residential areas.	**Consistent.** Impacts on utilities infrastructure (including water infrastructure and supplies) are discussed in Section 3.14, Utilities and Service Systems. The city has adequate water supply capacity to provide water services to the proposed Project.
PS-3.4: Evaluate Hazards. Require evaluation of potential flood hazards prior to approval of development projects to determine whether the proposed development is reasonably safe from flooding and consistent with California Department of Water Resources Urban Level of Flood Protection Criteria (ULOP).	**Consistent**: Impacts associated with potential flood events are discussed in Section 3.9, Hydrology and Water Quality, of this EIR. As discussed, the Project site is currently located in Zone X, protected by levee, which by definition indicates an area protected by levees from the 1% annual chance flood. Furthermore, the entire Project site is located in the 200-year floodplain. However, pursuant to the City Municipal Code, the proposed Project

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The City shall not approve the execution of a development agreement, a tentative map, or a parcel map for which a tentative map is not required, or a discretionary permit or other discretionary entitlement that would result in the construction of a new building, or construction that would result in an increase in allowed occupancy for an existing building, or issuance of a ministerial permit that would result in the construction of a new residence for property that is located within a 200-year flood hazard zone, unless the adequacy of flood protection as described in Government Code §65865.5(a), 65962(a), or 66474.5(a), has been demonstrated.	would be required to comply with regulations contained in Chapter 17.17 (200-Year Flood Protection) of the City Municipal Code.
PS-3.5 New Development. New development may be permitted in areas not identified as "urban" or "urbanizing" provided that: **1. Such areas are protected from 100-year flooding by FEMA-accredited levees or equivalent flood protection as shown on an adopted FEMA Flood Insurance Rate Map, a FEMA-approved Letter of Map Revision or a Conditional Letter of Map Revision, subject to conditions specified in the letter; or** **2. Where not protected by FEMA-accredited 100-year levees, such areas are subject to all applicable requirements of Municipal Code Chapter 8.30 (Floodplain Management), the California Building Standards Code as adopted by the City, and the latest promulgated FEMA standards for development in the 100-year floodplain, provided that new development is defined as "urban" or "urbanizing."**	**Consistent**: Impacts associated with potential flood events are discussed in Section 3.9, Hydrology and Water Quality, of this EIR. As discussed, the Project site is currently located in Zone X, protected by levee, which by definition indicates an area protected by levees from the 1% annual chance flood.
PS-3.7 Mitigation. Require all development projects to demonstrate how storm water runoff will be detained or retained on-site, treated, and/or conveyed to the nearest drainage facility	**Consistent.** Impacts on utilities infrastructure (including storm drainage) are discussed in Section 3.14, Utilities and Service Systems. As discussed, development of the proposed Project would include construction of a new storm drainage system. The stormwater drainage system

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as part of the development review process. Project applicants shall demonstrate that project implementation would not result in increases in the peak flow runoff to adjacent lands or drainage facilities that would exceed the design capacity of the drainage facility or result in an increased potential for offsite flooding.	will be constructed to meet the City of Lathrop Standards. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200 percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours.
PS-3.8: Construction Activities. Ensure that construction activities will not result in adverse impacts to existing flood control and drainage facilities, and adequate drainage and erosion control measures are provided during construction of new development.	**Consistent:** The Project includes use of a detention basin to accommodate runoff from the proposed development. Additionally, the proposed storm drain system will include water quality features designed in conformance with the standards of the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.
PS-3.9: Adequate Infrastructure. Maintain and regularly assess the status of local storm drainage infrastructure to ensure that the system is functioning property.	**Consistent.** Impacts on utilities infrastructure including storm drainage) are discussed in Section 3.14, Utilities and Service Systems. As discussed, development of the proposed Project would include construction of a new storm drainage system. The stormwater drainage system will be constructed to meet the City of Lathrop Standards. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.
PS-4.2: Reduction. Encourage producers and users of hazardous materials to reduce the amount of hazardous materials produced and used.	**Consistent:** The project would adhere to all local, state, and federal regulations governing the storage and handling of hazardous materials. This may involve obtaining permits, licenses, and certifications related to hazardous materials storage and management from DTSC. As discussed in Impact 3.8-5 in Section 3.8, the County OES also prepared a Hazardous Materials Area Plan (Chapter 4 of Division 2, Title 19, Article 3, §2720-2728 of the California Code of Regulations) and (California Health and Safety Code, Division 20, Chapter 6.95, Section 25503.5) that describes the hazardous materials response system developed to protect public health, prevent environmental damage and ensure proper use and disposal of hazardous materials. The plan establishes effective response capabilities to contain and control releases, establishes oversight of long-term cleanup and mitigation of residual releases, and integrates multi-jurisdiction and agency coordination. This plan is implemented by the San Joaquin County Environmental Health Department. The San Joaquin County

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	Environmental Health Department also maintains a HMBP. The HMBP describes agency roles, strategies and processes for responding to emergencies involving hazardous materials. The project is subject to review by the San Joaquin County Environmental Health Department in conformance with the Hazardous Materials Area Plan.
PS-4.3: Storage. Require the storage of hazardous materials in safe manner.	**Consistent:** The proposed Project would generate hazardous waste, such as tires, vehicle parts, vehicle fluids (motor oil, etc.), and construction waste. The Project would adhere to all local, state, and federal regulations governing the storage and handling of hazardous materials. This may involve obtaining permits, licenses, and certifications related to hazardous materials storage and management from DTSC.
PS-4.4: Regulations. Ensure that the LMFD continues to enforce the Uniform Fire Code relating to the use of hazardous material and require the appropriate regulations to be followed and precautions taken for the type and amount of hazard being created, used, stored, and/or disposed.	**Consistent.** The proposed Project would be subject to the California Building Code, which requires the California Fire Code. In addition, Project design would be reviewed by the City and fire department for opportunities to use building and site design features as a means for fire prevention and reduction. As discussed in Impact 3.8-5 in Section 3.8, the County OES also prepared a Hazardous Materials Area Plan (Chapter 4 of Division 2, Title 19, Article 3, §2720-2728 of the California Code of Regulations) and (California Health and Safety Code, Division 20, Chapter 6.95, Section 25503.5) that describes the hazardous materials response system developed to protect public health, prevent environmental damage and ensure proper use and disposal of hazardous materials. The plan establishes effective response capabilities to contain and control releases, establishes oversight of long-term cleanup and mitigation of residual releases, and integrates multi-jurisdiction and agency coordination. This plan is implemented by the San Joaquin County Environmental Health Department. The San Joaquin County Environmental Health Department also maintains a HMBP. The HMBP describes agency roles, strategies and processes for responding to emergencies involving hazardous materials. The project is subject to review by the San Joaquin County Environmental Health Department in conformance with the Hazardous Materials Area Plan.
PS-4.5: Hazardous Materials Business Plan. Coordinate with the LMFD to ensure that businesses in the city which handle hazardous materials prepare and file a Hazardous Materials Business Plan (HMBP). The HMBP shall consist of general business information, basic	**Consistent.** Impacts on Public Services and Recreation are discussed in Section 3.12 and impacts related to hazardous waste are discussed in Section 3.8. The proposed Project would generate hazardous waste, such as tires, vehicle parts, vehicle fluids (motor oil, etc.), and construction waste. As discussed in Impact 3.8-5 in Section 3.8, the County OES also prepared a Hazardous

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information on the location, type, quantity, and health risks of hazardous materials, and emergency response and training plans.	Materials Area Plan (Chapter 4 of Division 2, Title 19, Article 3, §2720-2728 of the California Code of Regulations) and (California Health and Safety Code, Division 20, Chapter 6.95, Section 25503.5) that describes the hazardous materials response system developed to protect public health, prevent environmental damage and ensure proper use and disposal of hazardous materials. The plan establishes effective response capabilities to contain and control releases, establishes oversight of long-term cleanup and mitigation of residual releases, and integrates multi-jurisdiction and agency coordination. This plan is implemented by the San Joaquin County Environmental Health Department. The San Joaquin County Environmental Health Department also maintains a HMBP. The HMBP describes agency roles, strategies and processes for responding to emergencies involving hazardous materials. The project is subject to review by the San Joaquin County Environmental Health Department in conformance with the Hazardous Materials Area Plan.
PS-4.6: Cleanup Sites. Require that the hazardous material transporter and/or the party responsible for the release, coordinates with the San Joaquin County Environmental Health Department, LMFD, and other agencies as needed, to confirm that hazardous waste cleanup sites located within the city are remediated with the property owner in a manner that keeps the public safe.	**Does Not Conflict:** The Project site does not include an existing hazardous clean-up site.
PS-4.7: Emergency Response. Work with the LMFD and other responding agencies to ensure that emergency personnel respond safely and effectively to a hazardous materials incident in the city.	**Consistent.** As discussed in Section 3.13, Transportation and Circulation, a preliminary site plan review completed as part of the Transportation Analysis Report (Fehr & Peers, 2023) indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. Therefore, emergency personnel can respond safely and effectively to a hazardous materials incident at the Project site.
PUBLIC FACILITIES AND SERVICES ELEMENT	
PFS-1.4 Revenue Sources. Identify and proactively pursue local, stable, and predictable sources of revenue to meet public facility, service, and infrastructure needs.	**Consistent:** The Project includes commercial highway serving uses which generate tax-revenue income for the City of Lathrop.
PFS-1.8 Cost Recovery. Recover the direct upfront costs and indirect long-term costs of providing services and facilities to new development through a combination of fees, exactions, and other methods based	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.

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on an evaluation of long-term economic benefits and in a manner consistent with the City's cost recovery goals.	
PFS-1.12 Infrastructure Rehabilitation. Prioritize the regular maintenance and rehabilitation of public facilities and critical Demonstrate Capacity. Require new development to demonstrate that the City's public services and facilities can accommodate the increased demand for said services and facilities associated with the project as part of the entitlement process.	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance. As discussed in Section 3.12, Public Services and Recreation, the public services (police, fire, and schools) are adequate to serve the Project.
PFS-1.13 Mitigate Impacts. Require new development to offset or mitigate impacts to community services and facilities to ensure that service levels for existing users are not degraded or impaired by new development, to the satisfaction of the City.	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance. As discussed in Section 3.12, Public Services and Recreation, the public services (police, fire, and schools) are adequate to serve the Project.
PFS-4.1: Maintain Capacity. Maintain and improve storm drainage infrastructure and flood control facilities in order to protect the community from flood hazards.	**Consistent.** As discussed in Section 3.14, Utilities and Services Systems, the proposed storm drainage system is adequate to serve the Project and would not result in off-site flooding impacts. Additionally, the Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.
PFS-4.3: Maintenance Districts. Continue to fund the operation and maintenance of stormwater facilities and regulatory compliance through the creation of maintenance districts and/or other appropriate mechanisms that avoid burdening the City's finances.	**Consistent.** As discussed above, the proposed storm drainage system is adequate to serve the Project and would not result in off-site flooding impacts. Additionally, the Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance.
PFS-4.5: Development Review. Continue to require all development projects to: **A. Demonstrate how storm water runoff will be detained or retained on-site and/or conveyed to the nearest drainage facility as part of the development review process and as required by the City's Small MS4 Phase 2 permit; and** **B. Analyze their drainage and stormwater conveyance impacts and either**	**Consistent:** The Project includes use of a detention basin to accommodate runoff from the proposed development. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200 percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours. Additionally, the proposed storm drain system will include water quality features designed in conformance with the standards of

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demonstrate that the City's existing infrastructure can accommodate increased stormwater flows, or make the necessary improvements to mitigate all potential impacts.	the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.
PFS-4.6: Stormwater Runoff. Stormwater runoff may be directed towards permeable surfaces to the greatest extent feasible to allow for more percolation of stormwater into the ground.	**Consistent:** The Project includes use of a detention basin to accommodate runoff from the proposed development. Stormwater runoff collected at the basin would percolate into the ground.
PFS-4.7: Stormwater Capture. Encourage the use of professionally designed stormwater capture methods to aid in the reuse of rainwater for non-potable uses in compliance with applicable State regulations.	**Consistent:** As discussed previously, the Project includes use of a detention basin to accommodate runoff from the proposed development. Additionally, the proposed storm drain system will include water quality features designed in conformance with the standards of the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.
PFS-4.8: Stormwater Treatments. Promote Best Management Practices (BMPs) and Low Impact Development measures (LID) to treat stormwater before discharge from the site. The facilities shall be sized to meet regulatory requirements.	**Consistent:** As discussed previously, the Project includes use of a detention basin to accommodate runoff from the proposed development. Per the engineering design for the basin, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours. Additionally, the proposed storm drain system will include water quality features designed in conformance with the standards of the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.
PFS-4.9: Naturalized Stormwater Facilities. Maintain stormwater facilities in a naturalized condition where appropriate, incorporating recreational trails, parkway vegetation, and other amenities, minimizing grading, and ensuring that vegetation does not reduce channel capacity, and consistent with the Recreation and Resources Element.	**Consistent.** The Project includes a 7.5-foot-deep private storm water retention basin which would be located in the southern portion of the Project site. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. Existing naturalized stormwater facilities are not found on-site.
PFS-4.10: Dual-Use Detention Basins. Allow recreational uses in dual-use detention basins for parks, ball fields, and other uses where appropriate.	**Does Not Conflict.** A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site. However, the landscape strip would surround the retention basin, along a 3:1 slope, and would not be conducive for recreational activities.
PFS-7.1 Fire and Police Facilities. Encourage the Lathrop Manteca Fire	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility

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Protection District (LMFD) and the San Joaquin County Sheriff's Department to maintain adequate staff and equipment to provide efficient, high quality, and responsive fire protection, police protection, and emergency medical services to existing and future growth in the city.	providers to finance public facility design, construction, operation, and maintenance. Payment of the applicable impact fees by the Project applicant and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund these police, fire, and emergency medical service needs created by the proposed Project. As discussed in Section 3.12, all impacts pertaining to police and fire services would be less than significant.
PFS-7.2 Emergency Response Times. Work cooperatively with the LMFD, the San Joaquin County Sheriff's Department, and providers of emergency medical services to ensure acceptable response times in accordance with provider standards.	**Consistent:** The Project site is designed to allow access for emergency vehicles into the Project site and would not impair emergency response. A preliminary site plan review completed as part of the Transportation Analysis Report (Fehr & Peers, 2023) indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. All intersections and street sections would be reviewed by the City of Lathrop and designed to comply with typical City standards.
PFS-7.4 Roadway Design and Maintenance. Design and maintain roadways to maintain acceptable emergency vehicle response times.	**Consistent:** As noted above, the Project site is designed to allow access for emergency vehicles into the Project site and would not impair emergency response. As discussed in section 3.13, a preliminary site plan review completed as part of the Transportation Analysis Report (Fehr & Peers, 2023) indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. All intersections and street sections would be reviewed by the City of Lathrop and designed to comply with typical City standards.
PFS-7.5 Department Consultation. Coordinate with LMFD and the San Joaquin County Sheriff's Department in the review of new development applications to ensure that adequate attention is being paid to fire and safety concerns during the design and planning of a project.	**Consistent.** The Project would be subject to review to all various City departments for comment and conditions prior to final approval.
PFS-7.8 Site Design. Recognize the role of site design in crime prevention and implement best practices into existing plans and new development strategies.	**Consistent.** The Project includes pedestrian-scale lighting that would aid in crime prevention practices.
PFS-7.9 Technology. Encourage and support efforts to improve police, fire, and emergency medical services through improved use of modern technology and industry best practices.	**Consistent.** The Project would be subject to Development Fees outlined in the Master Fee Schedule. These development fees would be used by the City and utility providers to finance public facility design, construction, operation, and maintenance. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would assist in funding efforts to improve police, fire, and

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	emergency medical services through updating technology.
PFS-8.2 Adequate Facilities. Continue to engage Manteca Unified School District (MUSD) in the environmental review process for land use changes so that they can provide adequate educational opportunities for all students in a timely manner in accordance with the pace of residential development.	**Consistent.** The NOP for the proposed Project was provided to the MUSD. The proposed Project does not include any new residential development and will not directly or indirectly increase the City's population, as such the need for additional school facilities is not anticipated. MUSD collects impact fees from new developments under the provisions of SB 50. As of July 27, 2022 the current Level I Developer Fees for industrial development are $0.78 per square foot. Under Section 65996 of the California Government Code, the payment of fees under SB 50 is deemed to fully mitigate the impacts of new development on school facilities. These development fees would be used by the school district to finance facility design, construction, operation, and maintenance.
PFS-8.5 Financing and Proportionate Share. Work with MUSD to encourage the planned financing of new school facilities concurrent with new development and to ensure that new development funds its proportionate share of the development.	**Consistent.** The proposed Project does not include any new residential development and will not directly or indirectly increase the City's population, as such the need for additional school facilities is not anticipated. MUSD collects impact fees from new developments under the provisions of SB 50. As of July 27, 2022 the current Level I Developer Fees for industrial development are $0.78 per square foot. Under Section 65996 of the California Government Code, the payment of fees under SB 50 is deemed to fully mitigate the impacts of new development on school facilities. These development fees would be used by the School district to finance facility design, construction, operation, and maintenance.
NOISE ELEMENT	
N-1.3: Indoor Residential Noise Level. Ensure that new development does not result in indoor noise levels exceeding 45 dBA Ldn for residential uses by requiring the implementation of construction techniques and noise reduction measures for all new residential development.	**Consistent.** Impacts on Noises are discussed in Section 3.11. As discussed in the Impact 3.11-1 impact analysis, the Project noise levels would exceed the County of San Joaquin non-transportation noise level standard of 45 dBA Leq for nighttime noise levels. Mitigation Measure 3.11-1 requires noise barriers on portions of the northern and southern site boundaries between the Project site and the residential receptors to the north and south of the site. The noise barrier locations are shown in Figure 3.11-3. The barrier to the north would be a minimum of 8 feet in height and the barrier to the south would be a minimum of six feet in height. This would reduce stationary noise levels generated by the Project to below the San Joaquin County noise level standards. Implementation of Mitigation Measure 3.11-1 would reduce operational noise levels to below the County's thresholds. .
N-1.4: Acoustical Studies. For projects that are required to prepare an acoustical study, the following stationary and transportation noise source criteria shall	**Consistent.** Impacts on Noises are discussed in Section 3.11. As discussed in the Impact 3.11-1, the stationary sources associated with the Project would not result in an increase of 3 dB or greater. Furthermore, the ambient

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be used to determine the significance of those impacts. **A. Stationary and Non-Transportation Noise Sources – A significant impact will occur if the project results in an exceedance of the noise level standards contained in this element, or the project will result in an increase in ambient noise levels by more than 3 dB, whichever is greater.** **B. Transportation Noise Sources -** **a. Where existing traffic noise levels are less than 60 dB Ldn at the outdoor activity areas of noise-sensitive uses, a +5 dB Ldn increase in roadway noise levels will be considered significant;** **b. Where existing traffic noise levels range between 60 and 65 dB Ldn at the outdoor activity areas of noise-sensitive uses, a +3 dB Ldn increase in roadway noise levels will be considered significant; and** **c. Where existing traffic noise levels are greater than 65 dB Ldn at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB Ldn increase in roadway noise levels will be considered significant.**	noise environment in the Project vicinity as defined by the analyzed road segments does not exceed 60 dBA Ldn at the existing sensitive receptors. Therefore, the project is consistent with all noise standards of the City of Lathrop. .
N-1.15: Construction Noise. Require construction activities to reduce noise impacts on adjacent uses to the criteria identified in Table N-3 (Table 3.11-4), or, if the criteria cannot be met, to the maximum extent feasible complying with Title 15 of the LMC (Building and Construction) and use best practices.	**Consistent.** Impacts on Noises are discussed in Section 3.11. As discussed in the Impact 3.11-1, Project construction would not cause an increase of greater than 12 dBA over existing ambient noise levels. In addition, Mitigation Measure 3.11-2 requires that construction activities are limited to certain hours, construction equipment is properly maintained, equipment idling is limited, and stationary equipment is located away from

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Construction activities outside of the permitted construction hours identified in the LMC may be approved on a case-by-case basis by the Building Official.	noise-sensitive uses. Therefore, the Project is consistent with all noise standards of the City of Lathrop.
ENVIRONMENTAL JUSTICE	
EJ-1.1 Land Use Patterns. Create land use patterns that are transit, bicycle, and pedestrian-oriented and have a mix of uses, especially neighborhood serving businesses, within walking distance of homes and workplaces.	**Does Not Conflict:** The Project is not located within an area which incudes a mix of uses, especially neighborhood serving businesses, within walking distance of homes and workplaces.

SOURCE: DE NOVO PLANNING GROUP, 2023.

As such, implementation of the proposed Project will have a ***less than significant*** impact relative to this topic.

CONSISTENCY WITH THE CITY OF LATHROP ZONING ORDINANCE AND MAP

The Zoning Ordinance has been established to promote and protect the public health, safety, and general welfare of the community. Among the various objectives of the Zoning Ordinance include the promotion of development at appropriate densities/ floor area ratios in order to conserve and enhance the City's physical scale and character as defined in the General Plan. The City of Lathrop's Zoning Ordinance includes land use, development densities and development standards.

The proposed Project includes the pre-zoning of the project area. The City's pre-zoning will follow the land use designation intent of General Plan Land Use Map (Freeway Commercial), as such the site will be zoned Highway Commercial (CH). The pre-zoning would go into effect upon annexation into the City of Lathrop.

The pre-zoned Highway Commercial (CH) zoning district (section 17.44.050) permits Travel Plaza and/or Truck Stop as a Conditional Use under existing zoning requirements. Additionally, the current Zoning Code (Section 17.84.100 Master Signage Program) would require a Zoning Code Text Amendment to allow the detached signs on the project site. Consistency with the Lathrop Municipal Code, including the Zoning Ordinance, is addressed in each individual section of this EIR. Implementation of the proposed Project will have a ***less than significant*** impact relative to this topic.

CONCLUSION

The policies discussed above are intended to ensure orderly reorganization to local jurisdictional boundaries, including annexation. There are a variety of environmental effects associated with the proposed Project, including loss of important farmland. This is thoroughly analyzed in Section 3.2 Agricultural Resources. The Project will include mitigation measures to offset the impact to the extent feasible.

The proposed Project is consistent with LAFCO policies adopted to address environmental impacts. Although the proposed Project is not included within the current SJCOG RTP/SCS, this fact, by itself,

is not indicative of any significant environmental effect requiring mitigation. Notably, as explained in Section 3.7 (Greenhouse Gases, Climate Change and Energy), the proposed Project is not inconsistent with State climate policies and includes GHG reducing features that cause it to do its fair share towards meeting Statewide GHG reduction targets. For these reasons, implementation of the proposed Project will have a ***less than significant*** impact relative to this topic.

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This section provides a general description of the existing noise sources in the Project site, a discussion of the regulatory setting, and identifies potential noise impacts associated with new development in the City of Lathrop. Project impacts are evaluated relative to applicable noise level criteria and to the existing ambient noise environment. Mitigation measures have been identified for potentially significant noise-related impacts.

3.11.1 ENVIRONMENTAL SETTING

KEY TERMS

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given area consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
Attenuation	The reduction of noise.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, defined as ten times the logarithm of the ratio of the sound pressure squared over the reference pressure squared.
CNEL	Community noise equivalent level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.
Frequency	The measure of the rapidity of alterations of a periodic acoustic signal, expressed in cycles per second or Hertz.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
L_{dn}	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
L_{eq}	Equivalent or energy-averaged sound level.
L_{max}	The highest root-mean-square (RMS) sound level measured over a given period of time.
$L_{(n)}$	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L_{50} is the sound level exceeded 50 percent of the time during the one hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
Noise	Unwanted sound.
SEL	Sound exposure levels. A rating, in decibels, of a discrete event, such as an aircraft flyover or train passby, that compresses the total sound energy into a one-second event.

FUNDAMENTALS OF ACOUSTICS

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure

variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment. All noise levels reported in this section are in terms of A-weighted levels, but are expressed as dB, unless otherwise noted.

The decibel scale is logarithmic, not linear. In other words, two sound levels 10 dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10 dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60-dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (L_{eq}), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptor, L_{dn}, and shows very good correlation with community response to noise.

The day/night average level (L_{dn}) is based upon the average noise level over a 24-hour day, with a +10 decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, it tends to disguise short-term variations in the noise environment. CNEL is similar to L_{dn}, but includes a +5 dB penalty for evening noise. Table 3.11-1 lists several examples of the noise levels associated with common situations.

TABLE 3.11-1: TYPICAL NOISE LEVELS

COMMON OUTDOOR ACTIVITIES	*NOISE LEVEL (DBA)*	*COMMON INDOOR ACTIVITIES*
	--110--	Rock Band
Jet Fly-over at 300 m (1,000 ft)	--100--	
Gas Lawn Mower at 1 m (3 ft)	--90--	
Diesel Truck at 15 m (50 ft), at 80 km/hr (50 mph)	--80--	Food Blender at 1 m (3 ft) Garbage Disposal at 1 m (3 ft)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft)	--70--	Vacuum Cleaner at 3 m (10 ft)
Commercial Area Heavy Traffic at 90 m (300 ft)	--60--	Normal Speech at 1 m (3 ft)
Quiet Urban Daytime	--50--	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	--40--	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	--30--	Library
Quiet Rural Nighttime	--20--	Bedroom at Night, Concert Hall (Background)
	--10--	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	--0--	Lowest Threshold of Human Hearing

SOURCE: CALTRANS, TECHNICAL NOISE SUPPLEMENT, TRAFFIC NOISE ANALYSIS PROTOCOL. SEPTEMBER 2013.

EFFECTS OF NOISE ON PEOPLE

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction;
- Interference with activities such as speech, sleep, and learning; and
- Physiological effects such as hearing loss or sudden startling.

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it. With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a 1-dBA change cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6 dB per doubling of distance from the source, depending on environmental conditions (i.e., atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

EXISTING NOISE LEVELS

Existing and Surrounding Land Uses

Sensitive land uses adjacent to the Project site include residential uses located north, south, and southwest of the Project area. These land uses are located outside of the boundaries of the City of Lathrop and within the boundaries of San Joaquin County.

Existing Ambient Noise Levels

The ambient noise environment in the Project vicinity is primarily defined by traffic noise from Interstate 5 (I-5). Secondary noise sources include traffic on Roth Road and Manthey Road. To quantify the existing ambient noise environment in the vicinity of the Project site, two continuous (24-hour) noise level measurements were conducted on the Project site on September 23rd, 2020. The noise measurement locations are shown on Figure 3.11-1. The noise level measurement survey results are provided in Table 3.11-2. Appendix B of Appendix F shows the complete results of the noise monitoring survey.

TABLE 3.11-2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA

SITE	LOCATION	DATE/TIME	L_{DN}	AVERAGE MEASURED HOURLY NOISE LEVELS, dB					
				DAYTIME (7AM-10PM)			NIGHTTIME (10PM-7AM)		
				L_{EQ}	L_{50}	L_{MAX}	L_{EQ}	L_{50}	L_{MAX}
CONTINUOUS (24-HOUR) NOISE LEVEL MEASUREMENTS									
LT-1	Northern Edge of Project Site	9/23/20	70	66	63	86	64	63	79
LT-2	Southern Edge of Project Site	9/23/20	73	68	65	88	67	65	82

SOURCE: SAXELBY ACOUSTICS, 2020.

The sound level meters were programmed to collect hourly noise level intervals at each site during the survey. The maximum value (L_{max}) represents the highest noise level measured during an interval. The average value (L_{eq}) represents the energy average of all of the noise measured during an interval. The median value (L_{50}) represents the sound level exceeded 50 percent of the time during an interval.

Larson Davis Laboratories (LDL) Model 812 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with an LDL Model CAL200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

Existing Traffic Noise Environment at Sensitive Receptors

METHODOLOGY

To predict existing noise levels due to traffic, the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (FHWA RD-77-108) was used. The model is based upon the Calveno reference noise emission factors for automobiles, medium trucks, and heavy trucks, with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The FHWA model was developed to predict hourly L_{eq} values for free-flowing traffic conditions. Traffic volumes for existing conditions were obtained from the traffic data prepared for the Project. Truck percentages and vehicle speeds on the local area roadways were estimated from field observations.

Traffic noise levels are predicted at the sensitive receptors located at the closest typical setback distance along each Project-area roadway segment. Where traffic noise barriers are predominately located along a roadway segment, a -5 dB offset was added to the noise prediction model to account for various noise barrier heights. A -5 dB offset was also applied where outdoor activity areas are shielded by intervening buildings. In some locations, sensitive receptors may be located at distances which vary from the assumed calculation distance and may experience shielding from intervening barriers or sound walls. However, the traffic noise analysis is believed to be representative of the majority of sensitive receptors located closest to the Project-area roadway segments analyzed in the Environmental Noise Assessment.

OFF-SITE TRAFFIC NOISE

Table 3.11-3 shows the existing traffic noise levels in terms of L_{dn} at closest sensitive receptors along each roadway segment. A complete listing of the FHWA Model input data is contained in Appendix C of Appendix F.

TABLE 3.11-3: EXISTING TRAFFIC NOISE LEVELS

ROADWAY	*SEGMENT*	*EXTERIOR TRAFFIC NOISE LEVEL, DB L_{DN}*
Roth Rd.	East of Manthey Rd.	49.6
Manthey Rd.	South of Roth Rd.	45.0
SB I-5 Off Ramp	North of Roth Rd.	55.5
SB I-5 On Ramp	South of Roth Rd.	51.2
NB I-5 On Ramp	North of Roth Rd.	51.5
NB I-5 Off Ramp	South of Roth Rd.	47.7
Roth Rd.	East of Harlan Rd.	59.6
Harlan Rd.	South of Roth Rd.	58.0
Manthey Rd.	South of Project Driveway	43.9

SOURCE: FHWA-RD-77-108 WITH INPUTS FROM FEHR & PEERS AND SAXELBY ACOUSTICS. 2023.

It should be noted that I-5 is the dominant noise source in the Project vicinity. Increases in traffic volumes on I-5 would be negligible compared to existing volumes on the roadway. Therefore, increases in traffic volumes are assessed conservatively based on increases in noise level generated by the segments listed in Table 3.11-3.

3.11.2 REGULATORY SETTING

STATE

California Environmental Quality Act

The California Environmental Quality Act (CEQA) Guidelines, Appendix G, includes questions that indicate that a significant noise impact may occur if a project exposes persons to noise or vibration levels in excess of local general plans or noise ordinance standards, or cause a substantial permanent or temporary increase in ambient noise levels. CEQA case law also addresses noise impacts. (See, e.g., *King & Gardiner Farms, LLC v. County of Kern* (2020) 45 Cal.App.5th 814, 883-894.) CEQA standards are discussed more below under the Thresholds of Significance section.

Governor's Office of Planning and Research

The State of California General Plan Guidelines (State of California, 2017), published by the Office of Planning and Research (OPR), provides guidance for the acceptability of projects within specific CNEL or L_{dn} contours. The guidelines also present adjustment factors that may be used in order to arrive at noise acceptability standards that reflect the noise control goals of the community, the particular community's sensitivity to noise, and the community's assessment of the relative importance of noise pollution.

LOCAL

City of Lathrop General Plan

POLICIES: NOISE ELEMENT

- N-1.3: Indoor Residential Noise Level. Ensure that new development does not result in indoor noise levels exceeding 45 dBA L_{dn} for residential uses by requiring the implementation of construction techniques and noise reduction measures for all new residential development.
- N-1.4: Acoustical Studies. For projects that are required to prepare an acoustical study, the following stationary and transportation noise source criteria shall be used to determine the significance of those impacts.

  A. Stationary and Non-Transportation Noise Sources – A significant impact will occur if the project results in an exceedance of the noise level standards contained in this element, or the project will result in an increase in ambient noise levels by more than 3 dB, whichever is greater.

  B. Transportation Noise Sources -

  1. Where existing traffic noise levels are less than 60 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +5 dB L_{dn} increase in roadway noise levels will be considered significant;

  2. Where existing traffic noise levels range between 60 and 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +3 dB L_{dn} increase in roadway noise levels will be considered significant; and

3. Where existing traffic noise levels are greater than 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB L_{dn} increase in roadway noise levels will be considered significant.

- N-1.15: Construction Noise. Require construction activities to reduce noise impacts on adjacent uses to the criteria identified in Table N-3 (Table 3.11-4), or, if the criteria cannot be met, to the maximum extent feasible complying with Title 15 of the LMC (Building and Construction) and use best practices. Construction activities outside of the permitted construction hours identified in the LMC may be approved on a case-by-case basis by the Building Official.

TABLE 3.11-4: PERFORMANCE STANDARDS FOR STATIONARY NOISE SOURCES, INCLUDING AFFECTED PROJECTS[1,2,3,4]

NOISE LEVEL DESCRIPTOR	*DAYTIME (7 AM TO 10 PM)*	*NIGHTTIME (10 PM TO 7 AM)*
Hourly L_{eq}, dB	55	45

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.

3. STATIONARY NOISE SOURCES WHICH ARE TYPICALLY OF CONCERN INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

HVAC SYSTEMS	*COOLING TOWERS/EVAPORATIVE CONDENSERS*
PUMP STATIONS	*LIFT STATIONS*
EMERGENCY GENERATORS	*BOILERS*
STEAM VALVES	*STEAM TURBINES*
GENERATORS	*FANS*
AIR COMPRESSORS	*HEAVY EQUIPMENT*
CONVEYOR SYSTEMS	*TRANSFORMERS*
PILE DRIVES	*GRINDER*
DRILL RIGS	*GAS OR DIESEL MOTORS*
WELDERS	*CUTTING EQUIPMENT*
OUTDOOR SPEAKER	*BLOWERS*

4. THE TYPES OF USES WHICH MAY TYPICALLY PRODUCE THE NOISE SOURCES DESCRIBED ABOVE INCLUDE BUT ARE NOT LIMITED TO: INDUSTRIAL FACILITIES, PUMP STATIONS, TRUCKING OPERATIONS, TIRE SHOPS, AUTO MAINTENANCE SHOPS, METAL FABRICATING SHOPS, SHOPPING CENTERS, DRIVE-UP WINDOWS, CAR WASHES, LOADING DOCKS, PUBLIC WORKS PROJECTS, BATCH PLANTS, BOTTLING AND CANNING PLANTS, RECYCLING CENTERS, ELECTRIC GENERATING STATIONS, RACE TRACKS, LANDFILLS, SAND AND GRAVEL OPERATIONS, AND ATHLETIC FIELDS.

SOURCE: CITY OF LATHROP GENERAL PLAN, NOISE ELEMENT, TABLE N-3.

City of Lathrop Municipal Code

8.20.040 AMBIENT BASE NOISE LEVEL

Where the ambient noise level is less than designated in this section the respective noise level in this section shall govern.

TABLE 3.11-5: COMMUNITY ENVIRONMENT CLASSIFICATION

ZONE	*TIME*	*VERY QUIET (RURAL, SUBURBAN)*	*SLIGHTLY QUIET (SUBURBAN, URBAN)*	*NOISY (URBAN)*
Residential, Low	10 p.m. to 7 a.m.	40	45	50
	7 p.m. to 10 p.m.	45	50	55
	7 a.m. to 7 p.m.	50	55	60

ZONE	*TIME*	*VERY QUIET (RURAL, SUBURBAN)*	*SLIGHTLY QUIET (SUBURBAN, URBAN)*	*NOISY (URBAN)*
Residential, Multifamily	10 p.m. to 7 a.m.	45	50	55
	7 a.m. to 10 p.m.	50	55	60
Commercial	10 p.m. to 7 a.m.	50	55	60
	7 a.m. to 10 p.m.	55	60	65
Limited Industrial	anytime	70	70	70
General Industrial	anytime	75	75	75

(ORD. 21-418 § 2; PRIOR CODE § 99.04)

8.20.110 CONSTRUCTION OF BUILDINGS AND PROJECTS

It shall be unlawful for any person within a residential zone or within a radius of five hundred (500) feet therefrom, to operate equipment or perform any outside construction or repair work on buildings, structures or projects or to operate any pile driver, power shovel, pneumatic hammer, derrick, power hoist, or any other construction type device between the hours of ten p.m. of one day and seven a.m. of the next day, or eleven p.m. and nine a.m. Fridays, Saturdays and legal holidays, in such a manner that a reasonable person of normal sensitiveness residing in the area is caused discomfort or annoyance unless beforehand a permit therefore has been duly obtained from the office or body of the city having the function to issue permits of this kind. No permit shall be required to perform emergency work as defined in Sections 8.20.010 through 8.20.040. (Prior code § 99.40)

San Joaquin County General Plan

For non-transportation noise sources, the General Plan establishes Table 3.11-6 standards for sensitive uses.

TABLE 3.11-6: SAN JOAQUIN COUNTY GENERAL PLAN NON-TRANSPORTATION NOISE STANDARDS

NOISE LEVEL DESCRIPTOR	*OUTDOOR ACTIVITY AREAS[1,2] DAYTIME[3] (7 A.M. TO 10 P.M.)*	*OUTDOOR ACTIVITY AREAS[1,2] NIGHTTIME[3] (10 P.M. TO 7 A.M.)*
Hourly equivalent sound level (L_{eq}), dB	50	45
Maximum sound level (L_{max}), dB	70	65

NOTES: THESE STANDARDS APPLY TO NEW OR EXISTING RESIDENTIAL AREAS AFFECTED BY NEW OR EXISTING NON-TRANSPORTATION SOURCES.

[1] WHERE THE LOCATION OF OUTDOOR ACTIVITY AREAS IS UNKNOWN OR IS NOT APPLICABLE, THE NOISE STANDARD SHALL BE APPLIED AT THE PROPERTY LINE OF THE RECEIVING LAND USE. WHEN DETERMINING THE EFFECTIVENESS OF NOISE MITIGATION MEASURES, THE STANDARDS SHALL BE APPLIED ON THE RECEIVING SIDE OF NOISE BARRIERS OR OTHER PROPERTY LINE NOISE MITIGATION MEASURES.

[2] REFER TO MOUNTAIN HOUSE MASTER PLAN, TABLE 11.2, EXTERIOR NOISE STANDARDS FOR NOISE-SENSITIVE USES AFFECTED BY NON-TRANSPORTATION NOISE SOURCES, PAGE 11.12, FOR MOUNTAIN HOUSE NOISE STANDARDS.

[3] EACH OF THE NOISE LEVEL STANDARDS SPECIFIED SHALL BE REDUCED BY 5 DB FOR IMPULSIVE NOISE, SINGLE TONE NOISE, OR NOISE CONSISTING PRIMARILY OF SPEECH OR MUSIC.

SOURCE: SAN JOAQUIN GENERAL PLAN, NOISE ELEMENT, TABLE PHS-1.

San Joaquin County Development Regulations

The San Joaquin County Development Regulations, Section 9-1025.9(b) establishes land use noise level standards for new non-transportation or "stationary" noise sources, as outlined below that would be applicable to the proposed Project.

9-1025.9(B) STATIONARY NOISE SOURCES

Proposed projects that will create new stationary noise sources shall be required to mitigate the noise levels from these stationary noise sources so as not to exceed the noise level standards specified in Table 9-1025.9(b), Part II (Table 3.11-7).

TABLE 3.11-7: STATIONARY NOISE SOURCES

NOISE LEVEL DESCRIPTOR	*OUTDOOR ACTIVITY AREAS[1] DAYTIME[2] (7 A.M. TO 10 P.M.)*	*OUTDOOR ACTIVITY AREAS[1] NIGHTTIME[2] (10 P.M. TO 7 A.M.)*
Hourly equivalent sound level (L_{eq}), dB	50	45
Maximum sound level (L_{max}), dB	70	65

[1]WHERE THE LOCATION OF OUTDOOR ACTIVITY AREAS IS UNKNOWN OR IS NOT APPLICABLE, THE NOISE STANDARD SHALL BE APPLIED AT THE PROPERTY LINE OF THE RECEIVING LAND USE. WHEN DETERMINING THE EFFECTIVENESS OF NOISE MITIGATION MEASURES, THE STANDARDS SHALL BE APPLIED ON THE RECEIVING SIDE OF NOISE BARRIERS OR OTHER PROPERTY LINE NOISE MITIGATION MEASURES.

[2]EACH OF THE NOISE LEVEL STANDARDS SPECIFIED SHALL BE REDUCED BY 5 DB FOR IMPULSIVE NOISE, SINGLE TONE NOISE, OR NOISE CONSISTING PRIMARILY OF SPEECH OR MUSIC.

(ORD. 3675; ORD. 4036 § 2(PART), 1999)

SOURCE: ORDINANCE CODE OF SAN JOAQUIN COUNTY, CALIFORNIA

9-1025.9(C) EXEMPTIONS

The following shall be exempt from the provisions of this Chapter: (3) Noise sources associated with construction, provided such activities do not take place before 6:00 a.m. or after 9:00 p.m. on any day;

VIBRATION STANDARDS

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

The City of Lathrop does not have specific policies pertaining to vibration levels. Human and structural response to different vibration levels is influenced by a number of factors, including

ground type, distance between source and receptor, duration, and the number of perceived vibration events. Table 3.11-8 indicates that the threshold for damage to structures ranges from 0.2 to 0.6 peak particle velocity in inches per second (in/sec p.p.v). A threshold of 0.20 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

TABLE 3.11-8: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS

PEAK PARTICLE VELOCITY		*HUMAN REACTION*	*EFFECT ON BUILDINGS*
MM/SEC.	*IN./SEC.*		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of "architectural" damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage.

SOURCE: CALTRANS. TRANSPORTATION RELATED EARTHBORN VIBRATIONS. TAV-02-01-R9601 FEBRUARY 20, 2002.

3.11.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-f]).

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on noise if it will:

- Generate 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;
- Generate excessive groundborne vibration or groundborne noise levels; and/or
- 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.

Determination of a Significant Increase in Noise Levels

IMPACTS DUE TO TEMPORARY CONSTRUCTION NOISE INCREASES

With temporary noise impacts (construction), identification of "substantial increases" depends upon the duration of the impact, the temporal daily nature of the impact, and the absolute change in decibel levels. Policy N-1.15 of the City of Lathrop General Plan restricts maximum noise levels from construction to the standards listed in Table 3.11-4. However, the General Plan also states that if this is not feasible, construction noise control best practices should be implemented to reduce noise levels as much as possible. Section 8.20.110 of the City of Lathrop Municipal Code prohibits construction noise between the hours of ten p.m. of one day and seven a.m. of the next day, or eleven p.m. and nine a.m. Fridays, Saturdays and legal holidays where construction occurs within 500 feet of a residential zone.

The City has not adopted any formal standard for evaluating temporary construction noise which occurs within allowable hours. For short-term noise associated with Project construction, Saxelby Acoustics recommends use of the California Department of Transportation (Caltrans) increase criteria of 12 dBA (Caltrans Traffic Noise Protocol, 2020), applied to existing residential receptors in the Project vicinity. This level of increase is approximately equivalent to a doubling of sound energy and has been the standard of significance for Caltrans projects at the state level for many years. Application of this standard to construction activities is considered reasonable considering the temporary nature of construction activities.

IMPACTS DUE TO PERMANENT NOISE INCREASES

The City of Lathrop General Plan Policy N-1.4 establishes the following criteria to determine the significance of noise impacts:

A. Stationary and Non-Transportation Noise Sources – A significant impact will occur if the project results in an exceedance of the noise level standards contained in this element, or the project will result in an increase in ambient noise levels by more than 3 dB, whichever is greater.
B. Transportation Noise Sources –
    1. Where existing traffic noise levels are less than 60 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +5 dB L_{dn} increase in roadway noise levels will be considered significant;
    2. Where existing traffic noise levels range between 60 and 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +3 dB L_{dn} increase in roadway noise levels will be considered significant; and
    3. Where existing traffic noise levels are greater than 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB L_{dn} increase in roadway noise levels will be considered significant.

IMPACTS AND MITIGATION MEASURES

Impact 3.11-1: The proposed Project has the potential to generate 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 with Mitigation)

TRAFFIC NOISE ENVIRONMENT AT OFF-SITE RECEPTORS WITH AND WITHOUT THE PROJECT

Implementation of the proposed Project would result in an increase in daily traffic volumes on the local roadway network, and consequently, an increase in noise levels from traffic sources along affected segments. Table 3.11-9 shows the predicted traffic noise level increases on the local roadway network for Existing and Existing Plus Project conditions. Table 3.11-10 shows the predicted traffic noise level increases on the local roadway network for the Cumulative No Project and Cumulative Plus Project conditions. Appendix C of Appendix E provides the complete inputs and results of the FHWA traffic noise modeling.

TABLE 3.11-9: EXISTING AND EXISTING PLUS PROJECT TRAFFIC NOISE LEVELS

ROADWAY	*SEGMENT*	*APPROX. RECEPTOR DISTANCE*	*NOISE LEVELS (L_{DN}, dB) AT NEAREST SENSITIVE RECEPTORS*				
			EXISTING	*EXISTING + PROJECT*	*CHANGE*	*CRITERIA*	*SIGNIFICANT?*
Roth Rd.	East of Manthey Rd.	80	49.6	52.6	3.0	+ 5.0 dB	No
Manthey Rd.	South of Roth Rd.	200	45.0	47.3	2.2	+ 5.0 dB	No
SB I-5 Off Ramp	North of Roth Rd.	50	55.5	56.2	0.6	+ 5.0 dB	No
SB I-5 On Ramp	South of Roth Rd.	50	51.2	52.2	1.0	+ 5.0 dB	No
NB I-5 On Ramp	North of Roth Rd.	80	51.5	52.0	0.5	+ 5.0 dB	No
NB I-5 Off Ramp	South of Roth Rd.	140	47.7	48.5	0.9	+ 5.0 dB	No
Roth Rd.	East of Harlan Rd.	45	59.6	59.7	0.2	+ 5.0 dB	No
Harlan Rd.	South of Roth Rd.	40	58.0	58.1	0.2	+ 5.0 dB	No
Manthey Rd.	South of Project Driveway	200	43.9	43.7	-0.1	+ 5.0 dB	No

SOURCE: FHWA-RD-77-108 WITH INPUTS FROM FEHR & PEERS AND SAXELBY ACOUSTICS, 2023.

TABLE 3.11-10: CUMULATIVE AND CUMULATIVE PLUS PROJECT TRAFFIC NOISE LEVELS

ROADWAY	*SEGMENT*	*APPROX. RECEPTOR DISTANCE*	*NOISE LEVELS (L_{DN}, dB) AT NEAREST SENSITIVE RECEPTORS*				
			CUMULATIVE	*CUMULATIVE + PROJECT*	*CHANGE*	*CRITERIA*	*SIGNIFICANT?*
Roth Rd.	East of Manthey Rd.	80	56.0	56.9	0.9	+ 5.0 dB	No
Manthey Rd.	South of Roth Rd.	200	51.4	52.0	0.6	+ 5.0 dB	No
SB I-5 Off Ramp	North of Roth Rd.	50	58.7	59.0	0.3	+ 5.0 dB	No
SB I-5 On Ramp	South of Roth Rd.	50	56.5	56.9	0.3	+ 5.0 dB	No
NB I-5 On Ramp	North of Roth Rd.	80	53.7	54.0	0.3	+ 5.0 dB	No
NB I-5 Off Ramp	South of Roth Rd.	140	51.4	51.8	0.4	+ 5.0 dB	No

ROADWAY	SEGMENT	APPROX. RECEPTOR DISTANCE	NOISE LEVELS (L_{DN}, dB) AT NEAREST SENSITIVE RECEPTORS				
			CUMULATIVE	CUMULATIVE + PROJECT	CHANGE	CRITERIA	SIGNIFICANT?
Roth Rd.	East of Harlan Rd.	45	64.0	64.1	0.1	+ 5.0 dB	No
Harlan Rd.	South of Roth Rd.	40	58.9	59.0	0.1	+ 5.0 dB	No
Manthey Rd.	South of Project Driveway	200	50.0	50.0	0.0	+ 5.0 dB	No

SOURCE: FHWA-RD-77-108 WITH INPUTS FROM FEHR & PEERS AND SAXELBY ACOUSTICS, 2023.

The City of Lathrop General Plan Policy N-1.4 specifies criteria to determine the significance of traffic noise impacts. Where existing traffic noise levels are greater than 65 dBA L_{dn}, at the outdoor activity areas of noise-sensitive uses, a +1.5 dBA L_{dn} increase in roadway noise levels will be considered significant. Where traffic noise levels are between 60 dBA L_{dn} and 65 dBA L_{dn}, a +3.0 dB L_{dn} increase in roadway noise levels will be considered significant. Where traffic noise levels are less than 60 dBA L_{dn}, a +5.0 dB L_{dn} increase in roadway noise levels will be considered significant.

According to Tables 3.11-9 and 3.11-10, the ambient noise environment in the Project vicinity as defined by the analyzed road segments does not exceed 60 dBA L_{dn} at the existing sensitive receptors. Therefore, the significance criterion for all segments is +5.0 dBA. As shown in the tables, the greatest increase due to traffic from the proposed Project is +3.0 dBA, which is less than the threshold of +5.0 dBA. Therefore, impacts resulting from increased traffic noise would be considered ***less-than-significant***.

PROJECT-GENERATED NON-TRANSPORTATION NOISE ENVIRONMENT AT OFF-SITE RECEPTORS

The primary non-transportation noise sources associated with the proposed Project are the truck repair shop, on-site vehicle circulation, backup generators, rooftop mechanical equipment, the drive-thru restaurant speaker box, and gas station canister vacuums. In order to evaluate these noise sources at the nearest sensitive receptors, Saxelby Acoustics used the SoundPLAN noise prediction model to generate noise level predictions according to the assumptions outlined below.

The SoundPLAN noise prediction model was used to plot noise contours and to calculate noise levels at the sensitive receptors located around the Project site. Inputs to the SoundPLAN model included ground topography and ground type, noise source locations and heights, receiver locations, and sound power level data. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors).

It should be noted that sound power is a measure of the total acoustic energy emitted by a noise source and is irrespective of distance from the source. Sound power is input into the SoundPLAN model as a representation of the total acoustic energy emitted by a specific noise source. Sound power levels in this report are A-weighted decibel levels, noted as "dBA, PWL" per industry standards. The model then corrects for the many factors (i.e., distance, terrain shielding, atmospheric absorption, etc.) which affect sound propagation from the noise source to the receiver location.

Saxelby Acoustics used the SoundPLAN noise model to calculate noise levels at the nearest sensitive receptors. Input data included all proposed amenities as discussed below as well as topography and existing and proposed buildings/sound walls. The proposed project includes an 8-foot-tall, 215-foot-long sound wall shielding the residence north of the project site and an 8-foot-tall 650-foot-long sound wall shielding the residence south of the project site. Figure 3.11-2 shows the results of this analysis for the site layout in terms of the peak hour average (L_{eq}), adjusted for ambient noise levels.

Truck Repair Shop: To determine typical noise levels associated with the proposed four bay truck repair shop, noise level measurement data from a Sacramento Unified School District bus repair facility was utilized. The noise level measurements were conducted at a distance of 120 feet from the repair shop entrance. Primary noise generation emanated from pneumatic tools. This bus repair facility is being used for this analysis as it is the most similar scenario to the proposed Project due to the movement of heavy vehicles (trucks), number of repair bays, and the use of similar types of tools.

The results of the bus repair shop noise measurements indicate that a busy hour generated an average noise level of 61 dBA L_{eq} and 76 dBA L_{max} at a distance of 120 feet from the bay of the bus repair shop. This analysis conservatively assumes that each repair bay could operate continuously at this level of activity in a busy hour.

Parking Lot Circulation: Based upon the Transportation Analysis Report completed for the Project (Fehr & Peers, 2023), the peak hour trips for the Project would be 208 vehicles. Saxelby Acoustics assumed that, based on similar projects, 10 percent of these trips could be heavy trucks. Based upon noise measurements conducted of vehicle movements in parking lots, the sound exposure level (SEL) for a single passenger vehicle is 71 dBA at a distance of 50 feet while the SEL of a heavy truck is 85 dBA at the same distance.

Backup Generators: The proposed Generac SG100 backup generator set is predicted to generate noise levels of up to 67 dBA L_{eq} at a distance of seven meters (23 feet), per manufacturer's specifications. This assumes that an acoustical enclosure will be used for each generator. The Project includes three backup generators.

Rooftop Mechanical Equipment: Saxelby Acoustics assumed the proposed convenience store will be serviced by three ten-ton packaged units and one ten-ton air-cooled chiller package operating continuously. Manufacturer's data was incorporated to analyze the noise from the rooftop mechanical equipment.

Quick Serve Restaurant Speaker Box: Saxelby Acoustics estimated that Project activity would occur continuously during the peak day and night hour of usage. Based on Saxelby Acoustics data for similar projects, one speaker per drive-through aisle would result in noise levels at 68 dBA L_{eq} and 78 dBA L_{max} at 3 feet.

Fuel Station Canister Vacuum: Saxelby Acoustics assumed a canister type vacuum station will be installed on the northeastern portion of the Project site. The vacuum canister is expected to produce

an average noise level of 64 dBA L_{eq} at 25 feet. This analysis assumes that the vacuum could run for 15 minutes in a given hour during daytime hours only.

Operational Noise Levels at Existing Receptors: Operational noise levels produced by the proposed Project were analyzed in accordance with the San Joaquin County noise level standards as the existing sensitive receptors are located outside of the boundaries of the City of Lathrop.

As shown in Figure 3.11-2, the proposed Project is predicted to generate noise levels ranging from 42 to 46 dBA L_{eq} during both daytime and nighttime hours at the residential uses to the north and south of the proposed Project. The City of Lathrop also defines a significant increase due to stationary (non-transportation) sources as an increase of 3 dB above the background noise levels. The existing average nighttime ambient noise level at these receptors was measured to be 64 dBA L_{eq}. The Existing Plus Project noise would be 64 dBA L_{eq}. Therefore, the stationary sources associated with the Project would not result in an increase of 3 dB or greater. However, the Project noise levels would exceed the County of San Joaquin non-transportation noise level standard of 45 dBA L_{eq} for nighttime noise levels. Therefore, this is a potentially significant impact and additional noise control measures would be required.

Mitigation Measure 3.11-1 requires the extension of the noise barrier at the northern boundary of the project site. The barrier should be increased in length from 215 feet to 250 feet with the additional 35 feet added west of the proposed wall. This will allow the sound wall to sufficiently shield the entire outdoor area of the adjacent sensitive receptor. The extended noise barrier and resulting noise level contours are shown in Figure 3.11-3. This would reduce stationary noise levels generated by the Project to below the San Joaquin County noise level standards. Implementation of Mitigation Measure 3.11-1 would reduce operational noise levels to below the County's thresholds and reduce the impact to a ***less-than-significant*** level.

It should be noted that the noise-generating uses associated with the proposed Project are not predicted to generate maximum noise levels more than 20 dBA above the average (L_{eq}) noise levels. The San Joaquin County maximum noise level standards for both daytime and nighttime hours are 20 dBA above the average noise level standards. Therefore, where the average Project-generated noise levels comply with the County's standards, Project-generated maximum noise levels will also comply.

CONSTRUCTION NOISE

During the construction of the proposed Project, noise from construction activities would temporarily add to the noise environment in the Project vicinity. As shown in Table 3.11-11, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet. Construction activities would also be temporary in nature and are anticipated to occur during normal daytime working hours.

TABLE 3.11-11: CONSTRUCTION EQUIPMENT NOISE

TYPE OF EQUIPMENT	*MAXIMUM LEVEL, DB AT 50 FEET*
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

SOURCE: ROADWAY CONSTRUCTION NOISE MODEL USER'S GUIDE. FEDERAL HIGHWAY ADMINISTRATION. FHWA-HEP-05-054. JANUARY 2006.

Caltrans defines a significant increase in noise as 12 dBA over existing ambient noise levels; Saxelby Acoustics used this criterion to evaluate increases due to construction noise associated with the Project. As shown in Table 3.11-11, construction equipment is predicted to generate noise levels of up to 90 dBA L_{max} at 50 feet. Construction noise is evaluated as occurring at the center of the site to represent average noise levels generated over the duration of construction across the Project site. The nearest residential uses are located approximately 400 feet as measured from the center of the Project site. At this distance, maximum construction noise levels would be up to 72 dBA. The average daytime maximum noise level in the vicinity of the sensitive receptors was measured to be 86 to 88 dBA. Therefore, Project construction would not cause an increase of greater than 12 dBA over existing ambient noise levels.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A Project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration and would occur during daytime hours.

Although construction activities are temporary in nature and would occur during normal daytime working hours, construction-related noise could result in sleep interference at existing noise-sensitive land uses in the vicinity of the construction if construction activities were to occur outside the normal daytime hours. Therefore, impacts resulting from noise levels temporarily exceeding the threshold of significance due to construction would be considered potentially significant.

Mitigation Measure 3.11-2 requires that construction activities are limited to certain hours, construction equipment is properly maintained, equipment idling is limited, and stationary equipment is located away from noise-sensitive uses. Implementation of Mitigation Measure 3.11-2 would reduce this impact to a ***less-than-significant*** level.

MITIGATION MEASURE(S)

Mitigation Measure 3.11-1: *The proposed noise barrier at the northern boundary of the project must be extended an additional 35 feet to the west to adequately shield the entire outdoor area of the sensitive receptor to the north. The total wall length should be at least 250 feet. The extended barrier is depicted in Figure 3.11-3.*

Mitigation Measure 3.11-2: *The following multi-part mitigation measure shall be implemented during construction of the Project:*

- *Construction activities (excluding activities that would result in a safety concern to the public or construction workers) shall be prohibited between the hours of ten p.m. of one day and seven a.m. of the next day, or eleven p.m. and nine a.m. Fridays, Saturdays and legal holidays.*
- *Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations. Equipment engine shrouds shall be closed during equipment operation.*
- *When not in use, motorized construction equipment shall not be left idling for more than 5 minutes.*
- *Stationary equipment (power generators, compressors, etc.) shall be located at the furthest practical distance from nearby noise-sensitive land uses or sufficiently shielded to reduce noise-related impacts.*

These requirements shall be noted on the Project improvement plans and implemented prior to approval of grading and/or building permits. The City of Lathrop Community Development Department shall review and approve the improvements plans.

Impact 3.11-2: The proposed Project would not generate excessive groundborne vibration or groundborne noise levels. (Less than Significant)

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural damage. The primary vibration-generating activities would be grading, utilities placement, and parking lot construction. Table 3.11-12 shows the typical vibration levels produced by construction equipment.

With the exception of vibratory compactors, the Table 3.11-12 data indicate that construction vibration levels anticipated for the Project are less than the 0.2 in/sec threshold at a distance of 25 feet. Use of vibratory compactors within 26 feet of the adjacent buildings could cause vibrations in excess of 0.2 in/sec. Structures which could be impacted by construction-related vibrations, especially vibratory compactors/rollers, are located approximately 30 feet, or further, from where compaction would occur. Therefore, this is a ***less-than-significant*** impact and no mitigation is required.

TABLE 3.11-12: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT

TYPE OF EQUIPMENT	*P.P.V. AT 25 FEET (INCHES/SECOND)*	*P.P.V. AT 50 FEET (INCHES/SECOND)*	*P.P.V. AT 100 FEET (INCHES/SECOND)*
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

SOURCE: TRANSIT NOISE AND VIBRATION IMPACT ASSESSMENT GUIDELINES. FEDERAL TRANSIT ADMINISTRATION. MAY 2006.

Impact 3.11-3: The proposed Project is not located within the vicinity of a private airstrip or an airport land use plan, within two miles of a public airport or public use airport, and would not expose people residing or working in the Project area to excessive noise levels. (No Impact)

The Project site is not located within two miles of a public or private airport or airstrip. The nearest airport, the Stockton Metropolitan Airport, is located approximately 3.5 miles northeast of the Project site. Therefore, the Project would have ***no impact*** related to airports and airport noise.

The Project site is located approximately 3.5 miles northeast of the Project site. The Project falls within the Stockton Metropolitan Airport Influence Area (AIA) (Zone 8). Within Zone 8, prohibited uses include hazards to flight and new dumps or landfills. The Project site falls outside of the 60 dBA CNEL contour as determined from Exhibit 3B of the Airport Land Use Compatibility Plan Update for the Stockton Metropolitan Airport (published May 2016, Amended February 2018). Therefore, noise on the project from airport operations would be not expose people to excessive noise levels. Therefore, the project would have ***no impact*** related to airports and airport noise.

Singh Petroleum Investments, Inc

City of Lathrop, California

Figure 3.11-1

Noise Measurement Sites

Legend

- Project Site
- Noise Measurement - Long Term

50 ft 150 ft 250 ft 350 ft

Projection: State Plane (California Zone 3) / NAD83 / meters
Rev. Date: 02/10/2023

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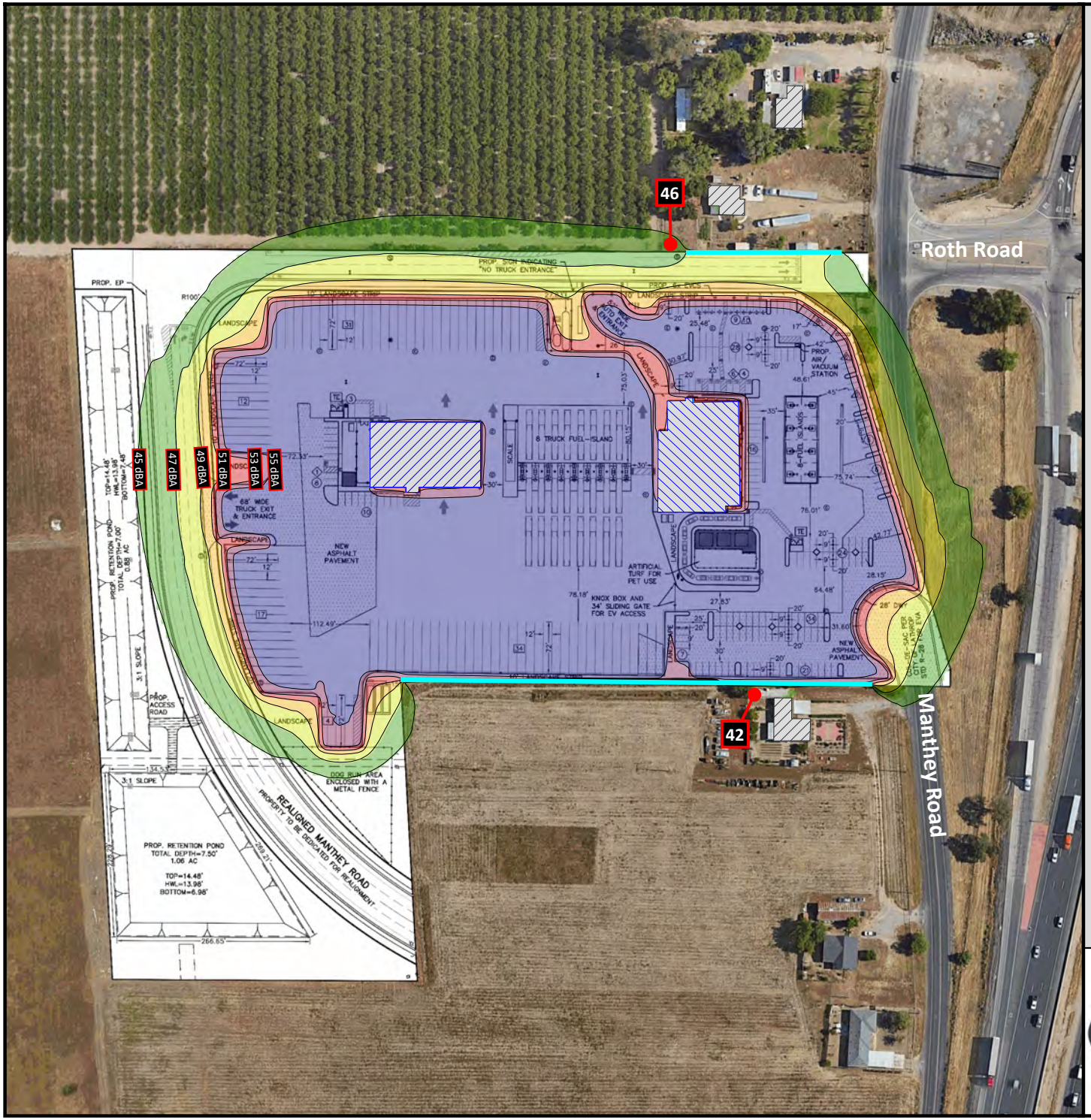

Singh Petroleum Investment

City of Lathrop, California

Figure 3.11-2

Project Noise Levels
Leq, dB(A) Daytime and Nighttime

Noise Level, dB(A)

45 <	<=	47	
47 <	<=	49	
49 <	<=	51	
51 <	<=	53	
53 <	<=	55	
55 <			

Legend

- Project Site
- Project Building
- Existing Building

Scale 1:200

0 40 80 160 240 320 feet

N

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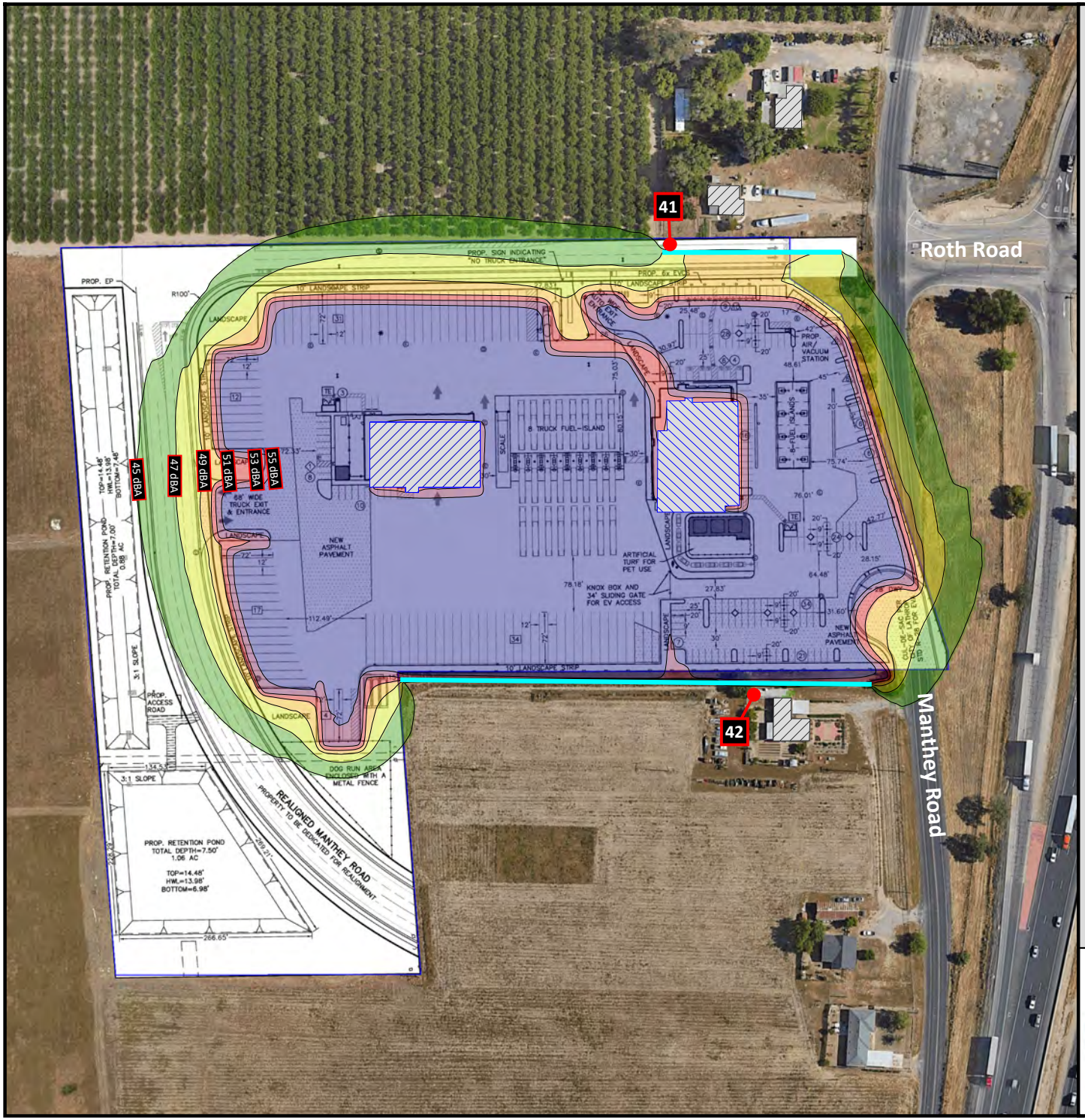

Singh Petroleum Investment

City of Lathrop, California

Figure 3.11-3

Project Noise Levels with Walls
Leq, dB(A) Daytime and Nighttime

Noise Level, dB(A)

45 <	<=	47
47 <	<=	49
49 <	<=	51
51 <	<=	53
53 <	<=	55
55 <		

Legend

- Project Site
- Project Building
- Existing Building
- Sound Wall

Scale 1:200

0 40 80 160 240 320 feet

N

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This section describes and evaluates potential impacts associated with the provision of police protection, fire protection and emergency services, parks and recreation, schools, and other public facilities for the proposed Project. The information in this section is primarily derived from the *City of Lathrop General Plan* (City of Lathrop, 2022), the *Draft Environmental Impact Report for the Lathrop General Plan Update* (City of Lathrop, 2022), and the *Lathrop Municipal Services Review and Sphere of Influence Plan* (City of Lathrop, 2022).

No comments were received during the public review period or scoping meeting for the Notice of Preparation regarding this topic.

3.12.1 ENVIRONMENTAL SETTING

Governmental Agencies receive funds for the provision of public services through development fees, property taxes, and connection and usage fees. As land is developed within the City and annexed into the City of Lathrop, these fees apply. The City of Lathrop, and other service providers, review these fee structures on an annual basis to ensure that they provide adequate financing to cover the provision of services. The service provider is responsible for continual oversight to ensure that the fee structures are adequate, and that they are collected prior to development. The service provider reviews the referenced fees and user charges on an annual basis to determine the correct level of adjustment required to reverse any deficits and assure funding for needed infrastructure going forward.

POLICE SERVICES

The Lathrop Police Department was created in 2021 in order to transition law enforcement services from the San Joaquin County Sheriff to the City. The new Lathrop Police Department identifies 46 new sworn and non-sworn positions and on May 10, 2021, the City approved a Master Consulting Services Agreement with CPS HR Consulting (CPS) to begin recruitment of personnel for the new City of Lathrop Police Department and authorized the creation of a new Police Chief Position. The City continues to recruit for the various levels of staffing, purchase necessary equipment, such as Police vehicles, and coordination with other jurisdictions for the purpose of evidence storage and 911 operations. The Lathrop Police Department initiated operations on June 29, 2022.

The Lathrop Police Department has 35 sworn officers including 2 Police Commanders, 6 Sergeants, and 26 Police Officers. The Lathrop Police Department also has 12 Professional Staff, including 1 Executive Assistant, 1 Records Supervisor, 2 Records Assistants, 1 Management Analyst, 1 Property/Evidence Technician, 1 Community Services Supervisor and Community Services Officers. If needed, additional assistance can be summoned under a mutual aid agreement with surrounding cities and the County. Existing police staffing levels in the City are approximately 1.22 officers per 1,000 residents. The current City Wide Priority 1 average response time is 4 minutes.

The approval and/or pending development projects in the City will result in additional demand for law enforcement services. Capital costs for new facilities and equipment is funded through development impact fees and operational costs are funded through a combination of an increased

tax base, participation in Community Facility District (CFD) and Measure C funding (A City initiated special tax which does not have a sunset clause).

FIRE SERVICES

The Lathrop Planning Area is covered by two independent Fire Protection Districts, the Lathrop-Manteca Fire Protection District (LMFD) and French Camp-McKinley Fire District (French Camp). The LMFD provides fire protection services for all lands within the City of Lathrop, including lands south of Roth Road in addition to providing service to some 84.7 square miles of rural area around Lathrop and Manteca (in the southern San Joaquin County area).

LMFD was established in 1936 to provide fire protection for the township of Lathrop, rural Lathrop and the rural areas surrounding Manteca. The Fire District was organized under the laws of the State of California, Health and Safety Code Section 13800, known as the Fire Protection District law of 1987. LMFD is governed by a five-member Board of Directors who are elected at-large to serve a four-year term. Since 1936 the Fire District has developed into a pro-active Fire Department covering 100 square miles including the City of Lathrop. The Fire District is organized to maintain career personnel on duty, 24 hours a day, year-round, to respond to emergencies from the fire stations. LMFD has three (3) Fire Stations located in the City of Lathrop.

The French Camp Fire District provides fire protection for the rural area primarily south of Stockton and north of Roth Road, both east and west of Interstate 5. French Camp service boundaries include some 16 square miles, including a small portion of Stockton. Approximately 805 acres of the French Camp Fire District is in the Lathrop proposed Area of Interest and about 149 acres is in the SOI. The District was established in 1946 to provide fire protection for the French Camp Community and surrounding area. The Fire District was organized under the laws of the State of California, Health and Safety Code Section 13800, known as the Fire Protection District law of 1987.

Lathrop-Manteca Fire Protection District (LMFPD)

Since the incorporation of Lathrop in 1989, the LMFD has worked with the City Council to develop plans to provide adequate coverage for potential urban growth of the city. This has included the imposition of Fire Facilities Fees for new development as well as a sharing in the Special Sales Tax (Measure C) passed city-wide.

The LMFD-wide fire suppression force is organized into three shifts consisting of 13 members each. Each of the shifts is on duty for rotating periods of 24 hours. A minimum of three full time firefighters are on duty at the satellite fire stations at all times. Each of the fire stations within the City of Lathrop, J Street (Station 31), Mossdale (Station 34), and River Islands (Station 35), have three full time firefighters assigned to each station, 24 hours a day seven days a week. Additionally, one Battalion Chief is assigned to a station within the city to manage the day to day operations and provide scene management for emergency operations. Station 35 also includes the Fire Chief, administrative services, and Fire Prevention staff.

Per the LMFD 2018 Master Plan, the next planned Stations will be located as follows:

- South Lathrop near the Yosemite Avenue and McKinley Avenue Corridor (Station 36);
- Kio Road, north of Lathrop City limits (Station 37); and
- River Islands Parkway, within the Phase 2 development area (Station 38).

The LMFD District boundaries spread over about 100 square miles, with the bulk of the District's population (70 percent) within the City limits of Lathrop.

In 2014, the LMFD switched dispatch providers. LMFD calls are now being dispatched by the City of Stockton along with the Manteca Fire Department, Stockton Fire Department, South County Fire Authority (Tracy) and Lodi Fire Departments. LMFD tracks the following times segments and continuously works to improve response times. These times are provided from LMFD's records, specific to the City of Lathrop's capturing data from Jan 1, 2020 to Dec 31, 2020.

> Alarm Processing Time: Defined as the time elapsed between receipt of alarm and the dispatch of apparatus to the emergency call. The LMFD benchmarks this according to the National Fire Protection Association Standard 1221: Installation, Maintenance, and Use of Emergency Services Communications Systems. Section 7.4.3 of this standard identifies the that elapsed alarm processing for the highest priority of life-threatening calls shall have an alarm, processing time of 60 seconds for at least 90 percent of these total calls. The Lathrop Manteca Fire District currently contracts with the City of Stockton for dispatch services. In addition, the Fire District has moved its primary alerting system to an internet protocol system that increases the speed of which alarms are "pushed" to the emergency responding units. The Fire District meets this standard 100 percent of the time.
>
> Turnout Time: This time is calculated from the receipt of the alarm by the station of unit and ends at the time the unit begins its rolling travel time. Benchmarks for these time standards are 60 seconds for 90 percent of the total Emergency Medical Calls and 80 seconds for 90 percent of the total Fire Calls. The Fire District's data shows a 60 second turnout time for EMS Calls for 88 percent percent of occurrences and have an 80 second turnout time for 95 percent of the fire occurrences.
>
> Response Time: Response time is reflected by the turnout time and travel time that are added together to create a complete picture of the Fire District response time. In 2020, the Fire District responded to emergency incidents 70 percent of the time within five minutes at the 90^{th} percentile with all combined responses. It should be noted that due to growth demands and development planning the fire district responds to areas of new development that are often outside of the existing service zones. While call volumes in those areas are generally lower, they do have an impact on the overall analyses. The District has plans to add two to three additional fire stations/companies in order to service these developments. At buildout, the Fire District expects to be closely meeting travel distance times that are closer in alignment with LMFD standards.

The Fire Marshal administers the District’s fire prevention and code enforcement program. Plan checks are done by the Fire Marshal along with the more complex inspections. Fire Company personnel conduct inspections and annual re-inspections. Additional fire safety programs include

smoke detector installation for the elderly and disabled and fire safety and awareness in the schools.

The Fire District responds, not only to fires of all types, but also medical emergencies, traffic accidents, and river rescues. The Fire District is an active member of the San Joaquin County Hazardous Materials Response Team. The Fire District is also part of the Urban Search and Rescue Team).

French Camp

The authorized personnel strength of French Camp consists of 16 employees, of which 7 are line staff and 9 are reserve personnel. The French Camp and Montezuma Fire Protection Districts rotate Fire Chiefs in order to provide coverage for the respective Fire Stations. The fire district is organized to maintain three personnel with automatic aid agreements with other agencies. French Camp maintains one Fire Station located at 310 East French Camp Road. This station is staffed by 2 engine companies and is staffed 24-hours per day. The District receives about 1,000 calls per year.

According to response data by Lifecom Dispatch Center, the District's 90 percentile "turnout time" and "travel" times in 2015 were 1:50 minutes and 6:01 minutes respectively to the Roth Road area. These times were below the average 90 percentile time for all rural fire districts at 2:42 minutes turnout time and 7:38 minutes response time.

The Fire District responds not only to fires of all types, but also medical emergencies, traffic accidents, and river rescues. The Fire District is an active member of the San Joaquin County Hazardous Materials Response Team. The Fire District is also part of the Urban Search and Rescue Team.

ISO RATING

The Insurance Services Office (ISO) rating measures individual fire protection agencies against a national Fire Suppression Rating Schedule which includes such criteria as facilities and support for handling and dispatching fire alarms, first-alarm responses and initial attack, and adequacy of the local water supply for the fire suppression purposes. ISO ratings are on a scale of 1-10 with 1 being the highest rating. In 2013, ISO developed split classifications for some communities, which can represent the risk of loss more precisely. An example of a split classification system is 4/4X or 4/4Y. The first number refers to the classification of properties within 5 road miles of a fire station and within 1,000 feet of a creditable water supply. The second number, with either the X or Y designation, applies to properties within 5 road miles of a fire station but beyond 1,000 feet of a creditable water supply. ISO generally assigned Class 10 to properties beyond 5 road miles.

LATHROP-MANTECA FIRE PROTECTION DISTRICT

In its most recent report, the ISO Public Classification Program rates the LMFD as a community classification of 3 for the City of Lathrop[1]. This rating is unchanged since the ISO rating for the City of Lathrop in their January 2013 ISO report.

FRENCH CAMP

The ISO Public Classification Program rates the French Camp in their November 2017 report as a community classification of 4/4Y for the District[2]. This is an improvement from the community classification of 4/8b for the District in the ISO November 23, 2010 report.

FIRE STATIONS

The Lathrop-Manteca Fire Protection District currently operates three fire stations within the Lathrop Planning area, listed below.

- **Station 31 (800 E. J Street, Lathrop, CA 95330):** Station 31 acts as the headquarters station for the District, and services a large section of East Lathrop. The boundaries generally run from Interstate 5 at Roth Road to Louise Avenue. Station 31 is staffed with four personnel, with the 4th Firefighter/Engineer used as a vacation relief.
- **Station 34 (460 River Islands Parkway, Lathrop, CA 95330)**: Station 34 is located on the west side of Interstate 5 within the City of Lathrop. This station officially opened on May 20th, 2006. This station responds to calls for service on the west side of Interstate 5 and south of Louise Avenue. Staffing for this station includes one Captain and one Firefighter/Engineer.

- **Station 35 (19001 Somerston, Lathrop, CA 95330)**: Station 25 is located in the southern portion of Lathrop west of Interstate 5. The primary response area for Station 35 is the River Islands development in the southwestern portion of the City of Lathrop. The fire station houses one of the LMFD's Type 3 (wildland) fire engines and the LMFD rescue unit.

As noted above, per the LMFD 2018 Master Plan, the next planned Stations will be located as follows:

- South Lathrop near the Yosemite Avenue and McKinley Avenue Corridor (**Station 36**);
- Kio Road, north of Lathrop City limits (**Station 37**); and
- River Islands Parkway, within the Phase 2 development area (**Station 38**).

[1] City of Lathrop General Plan Draft EIR, 2022

[2] City of Lathrop General Plan Draft EIR, 2022

FRENCH CAMP

French Camp currently operates a single fire station located which is listed below:

> **Station 11-1 (310 E. French Camp Road, French Camp, CA):** The Station is staffed with at least two on-duty personnel and on Duty Chief available 24 hours a day, seven day a week. In addition, the Reserve Firefighter personnel are an important supplemental force to augment the line staff in firefighting duties in fire suppression of structural, wildland, and other types of fires. As of 2015, French Camp expanded fire protection service to the community of Mountain House on a contract basis.

PARKS AND RECREATION

The City of Lathrop Parks and Recreation Department manages 108 acres of parks and open space throughout the City of Lathrop. Local parks offer amenities such as a community center with a gymnasium, open space, athletic fields, playgrounds, and picnic areas. The Parks and Recreation Department manages programs that are multi-generation in nature such as community events, sports camps, adult and youth sports programs, youth before and after school programs, art programs, and senior programs.

Types of Parks

COMMUNITY PARKS

Community parks are typically up to 20 acres in size and include areas for active sports as well as space for family and group activities. Community parks are larger than neighborhood parks and provide services to fulfill the active and passive recreational needs of multiple neighborhoods. Community parks serve the needs of a local neighborhood by providing a close to home site for more active recreation that is not typically suitable or physically possible in a neighborhood park such as formal sports fields or lighted courts.

The City of Lathrop has four community parks totaling 47 acres. The facilities included in these parks are fields and courts for various sports, a large swimming pool, a community center building for arts and crafts, clubs, and social activities. Some of the community center buildings are joint-use facilities with the school district.

NEIGHBORHOOD PARKS

Neighborhood parks are typically a minimum of four acres in size and serve as the focal point of the community providing the hub for both physical and social activities. Neighborhood parks should be designed to be flexible to serve a variety of seasonal recreation needs. These parks act as critical building blocks of the City's image and assist in developing an overall sense of community and security. They also serve as essential access points for the City-wide green space network.

Currently, Lathrop has ten neighborhood parks accounting for 42.6 acres.

MINI PARKS

Mini parks are generally less than 2 acres in size and provide residents with a social and recreational gathering place, similar to a neighborhood park, but on a smaller scale. Mini-parks should provide small-scale recreational and aesthetic benefits primarily in denser residential areas or commercial areas with high pedestrian use. Each resident should be within walking distance (1/2 mile) of a neighborhood or mini park.

Currently, Lathrop has eight mini parks totaling 7.6 acres.

OPEN SPACE CORRIDORS

The Open Space Corridor can take several forms, including the pedestrian parkway separate from auto traffic, a combined vehicle and pedestrian parkway, a buffer zone between residential and commercial or industrial areas, or as a lineal park or paseo connecting with other components of the Parks and Recreation system or located separate from other areas such as along reaches of the San Joaquin River or other waterways.

River Park North and South have been included in this classification, putting Lathrop at (2) two linear parks, accounting for 10.7 acres.

City Parks

The City currently manages 25 distinct parks and four public facilities. Table 3.12-1 summarizes the City's park facilities. Additional parks within the City of Lathrop will become available in the City of Lathrop as development continues within the River Islands development area.

TABLE 3.12-1: SUMMARY OF PARKS AND RECREATION FACILITIES

PARK/FACILITY NAME	*FACILITY TYPE*	*ACREAGE*
Apolinar Sangalang Park	Community Park	9.7
Armstrong Park	Mini Park	0.4
Basin Park	Neighborhood Park	4.4
Crescent Park	Mini Park	1.4
Crystal Cove Park	Neighborhood Park	3.3
Generations Center	Community Park	6.0
Lathrop Skate Park	Mini Park	0.3
Leland & Jane Stanford Park	Neighborhood Park	4.1
Libby Park	Mini Park	1.2
Michael Vega Park	Neighborhood Park	2.9
Milestone Manor Park	Mini Park	1.00
Mossdale Commons	Mini Park	1.45
Mossdale Landing Community Park	Community Park	20.4
Park West	Neighborhood Park	6.8
Reflections Park	Neighborhood Park	5.2
River Park North	Open Space Corridor	3.2
River Park South	Open Space Corridor	7.4
Somerston Park	Neighborhood Park	2.0
Summer House Park	Neighborhood Park	2.0
The Green	Mini Park	1.0
Thomsen Park	Mini Park	0.8
Tidewater Park	Neighborhood Park	2.1

PARK/FACILITY NAME	*FACILITY TYPE*	*ACREAGE*
Valverde Park	Community Park	9.1
William S. Moss Park	Neighborhood Park	4.1
Woodfield Park	Neighborhood Park	5.5

SOURCE: CITY OF LATHROP PARKS AND RECREATION Master Plan. 2020.

PARK STANDARDS

Lathrop has established the following standards for acres of parkland:

5 acres per 1000 residents including:

- 2 acres of neighborhood park for every 1000 new residents
- 3 acres a community park for every 1000 new residents

As described in the Lathrop Parks Master Plan (2020) Lathrop has 107.8 acres of parks identified in the parks inventory and notes that to continue to meet the adopted standard of 5 acres per 1000 residents (2 acres of neighborhood park space and 3 acres of community park space), Lathrop is short approximately 0.1 acre of park for the current (2020) population.

On a regional scale, the City is located in the Sacramento-San Joaquin Delta (Delta), which contains several recreational areas and facilities, primarily for water-based recreation. Regional County parks near the City include the 9.85-acre Dos Reis Regional Park and the 3.7-acre Mossdale Crossing Regional Park, both located along the San Joaquin River. Mossdale Crossing Park is located on the west side of Interstate 5. Each of these parks includes boat launch ramps, picnic/barbeque areas, and children's play areas. Dos Reis Regional Park also has camping facilities. Also in the vicinity is the Haven Acres Marina, a private marina located on the San Joaquin River north of Dos Reis Regional Park. This facility provides river access to the San Joaquin River and includes parking areas, a boat ramp, and 10 boat berths.

SCHOOL SERVICES

Schools within the City of Lathrop are part of the Manteca Unified School District (MUSD). The MUSD provides school services for grades K through 12 within the communities of Manteca, Lathrop, Stockton, and French Camp. The District is approximately 113 square miles and serves more than 23,000 students. Within the City of Lathrop, there are three elementary schools (Lathrop Elementary School, Joseph Widmer School, and Mossdale Elementary School) and one high school (Lathrop High School). River Islands has two charter elementary schools, located within the Banta Unified School District (River Islands Technology Academy and the S.T.E.A.M. Academy).

Table 3.12-2 lists MUSD schools in Lathrop and recent enrollment for each school.

TABLE 3.12-2: PUBLIC SCHOOLS SERVING LATHROP

SCHOOL	*GRADES SERVED*	*ADDRESS*	*ENROLLMENT 2019-20 SCHOOL YEAR*
ELEMENTARY AND MIDDLE SCHOOLS			
Lathrop Elementary School	K-8	15851 5th Street	895
Joseph Widmer Elementary School	K-8	751 Stonebridge Lane	792
Mossdale Elementary School	K-8	455 Brookhurst Boulevard	1,040
River Islands Technology Academy	K-8	1175 Marina Drive	1,021
Next Generation S.T.E.A.M. Academy	K-8	18001 Commercial Street	637
Total			**4,385**
HIGH SCHOOLS			
Lathrop High School	9-12	647 Spartan Way	1,337
Total			**1,337**

SOURCE: CALIFORNIA DEPARTMENT OF EDUCATION EDUCATIONAL DEMOGRAPHICS UNIT ENROLLMENT FOR 2019-20

As shown in Table 3.12-2, the schools in the City had a total enrollment of approximately 5,722 students, of which 4,385 were enrolled in elementary and middle school (grades K – 8) and 1,330 were enrolled in high school (grades 9 – 12).

District-wide MUSD Schools has a total enrollment of 23,834 students for the 2019-2020 school year. Table 3.12-3 provides a summary of the public school enrollment by grade within MUSD.

TABLE 3.12-3: ENROLLMENT BY GRADE MUSD (2019-2020)

MANTECA UNIFIED	*GRADE LEVEL*													
	K	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*TOTAL 2019-2020*
Total	1,931	1,645	1,692	1,740	1,740	1,716	1,811	1,883	2,002	2,002	1,859	1,907	1,931	**23,834**

SOURCE: CALIFORNIA DEPARTMENT OF EDUCATION EDUCATIONAL DEMOGRAPHICS UNIT ENROLLMENT FOR 2019-2020

OTHER AGENCY SERVICES

Library Services

The Lathrop Branch Library is located at 459 Spartan Way. The Lathrop Branch Library offers computer workstations for Internet and word processing use, a ready reference collection, and a circulating collection of popular materials in English and Spanish. Items include books, magazines, audiobooks, large print books, DVDs, and music CDs. The Manteca Bulletin is available for reading in the branch. Customers are able to receive hold requests, check out and return items, and to return materials from other library locations at this branch. The Lathrop Branch Library is open Monday through Thursday, from 1:00 to 6:00 PM, and Friday and Saturday from noon to 5:00 PM.

Lathrop Senior Center

The Lathrop Senior Center located at 15707 Fifth Street provides lunches, classes, and various trip sand activities. There are no membership fees to participate at the center' however, some classes

and activities have nominal fees. The facility is open Monday through Friday, 9:00 AM through 4:00 PM. In addition, each month, the Senior Advisory Committee meets at the Lathrop Senior Center, which is designed by the City of Lathrop to coordinate recreational, education, and social service opportunities for those aged fifty and above.

Lathrop Hospital and Medical Facilities

Lathrop is mostly served by hospital and medical facilities from neighboring communities in French Camp and Manteca. Health care facilities within Manteca encompass Doctor's Hospital of Manteca, Kaiser Permanente Manteca Medical Center, residential care facilities, as well as private physicians and other medical practitioners. The primary medical facility in French Camp is San Joaquin General Hospital. Lathrop does have an urgent care clinic located within city limits.

Doctor's Hospital of Manteca provides acute care service for Manteca and the surrounding community. The hospital is located at 1205 east North Street in the City of Manteca. Doctor's Hospital of Manteca offers Comprehensive diagnostic and surgical services, Intensive care unit, Breast healthcare, including mammography, behavioral health care, a 67-bed adult inpatient psychiatric treatment center, expanded imaging services, hip and knee surgery, back pain treatment and surgery, bariatric (weight-loss) surgery. Kaiser Permanente Manteca Medical Center also provides acute care service for Manteca and the surrounding community. The hospital is located at 1777 West Yosemite Avenue. Residents typically travel to other facilities, for certain specialized services including severe trauma and psychiatric care.

San Joaquin General Hospital is a general acute care facility located at 500 W. Hospital Rd in the City of French Camp. The hospital contains 196-beds and provides a range of services including general medical and surgical care, high-risk obstetrics, neonatal intensive care, and pediatrics and intensive care. The associated medical campus includes primary care and specialty outpatient clinics.

The San Joaquin County Public Health Services provides maternal and child health care programming, California Children's Services, child health and disability programs, vaccinations and general public health nursing to the community. Alcohol & drug programs are also organized under the County Health Services and provide residential treatment, out-patient counseling, perinatal programs and community education and information.

3.12.2 REGULATORY SETTING

FEDERAL

There are no Federal regulations applicable to the environmental topics of public services and recreation.

STATE AND LOCAL

Fire Protection and Emergency Response

CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

In accordance with California Code of Regulations Title 8 Sections 1270 "Fire Prevention" and 6773 "Fire Protection and Fire Equipment" the California Occupational Safety and Health Administration (Cal/OSHA) has established minimum standards for fire suppression and emergency medical services. The standards include, but are not limited to, guidelines on the handling of highly combustible materials, fire hose sizing requirements, restrictions on the use of compressed air, access roads, and the testing, maintenance, and use of all fire fighting and emergency medical equipment.

EMERGENCY RESPONSE/EVACUATION PLANS

The State passed legislation authorizing the Office of Emergency Services (OES) to prepare a Standard Emergency Management System (SEMS) program, which sets forth measures by which a jurisdiction should handle emergency disasters. Non-compliance with SEMS could result in the State withholding disaster relief from the non-complying jurisdiction in the event of an emergency disaster.

FIRE PROTECTION

The California Fire Code contains regulations relating to construction and maintenance of buildings and the use of premises. Topics addressed in the Code include fire department access, fire hydrants, automatic sprinkler systems, fire alarm systems, fire and explosion hazards safety, hazardous materials storage and use, provisions to protect and assist first responders, industrial processes, and many other general and specialized fire safety requirements for new existing buildings and premises.

CALIFORNIA FIRE CODE

The 2022 California Fire Code contains regulations relating to construction, maintenance, and use of buildings. Topics addressed in the California Fire Code include fire department access, fire hydrants, automatic sprinkler systems, fire alarm systems, fire and explosion hazards safety, hazardous materials storage and use, provisions intended to protect and assist fire responders, industrial processes, and many other general and specialized fire-safety requirements for new and existing buildings and the surrounding premises. The Fire Code contains specialized technical regulations related to fire and life safety.

CALIFORNIA HEALTH AND SAFETY CODE

State fire regulations are set forth in Sections 13000 et seq. of the California Health and Safety Code. This includes regulations for building standards (as also set forth in the California Building

Code), fire protection and notification systems, fire protection devices such as extinguishers and smoke alarms, high-rise building and childcare facility standards, and fire suppression training.

NFPA 1710

The National Fire Protection Association (NFPA) 1710 Standards are applicable to urban areas and where staffing is comprised of career Firefighters. According to these guidelines, a career fire department needs to respond within six minutes, 90 percent of the time with a response time measured from the 911 call to the time of arrival of the first responder.

The standards are divided as follows:

- Dispatch time of one minute or less for at least 90 percent of the alarms;
- Turnout time of one minute or less for EMS calls (80 seconds for fire and special operations response);
- Fire response travel time of four minutes or less for the arrival of the first arriving engine company at a fire incident and eight minutes or less travel time for the deployment of an initial full alarm assignment at a fire incident;
- Eight minutes or less travel time for the arrival of an advanced life support (ALS) (4 minutes or less if provided by the fire department.

CITY OF LATHROP MUNICIPAL CODE

The City of Lathrop Municipal Code has ordinances related to fire protection, such as Chapter 3.20 (Impact Fee Ordinance), which requires development impact fees to be charged to fund improvements to the City's infrastructure. Additionally, Chapter 1.12 (Administrative Enforcement Procedures) describes the authority of the LMFD fire marshal in determining imminent health and safety hazards, and the powers associated with such a determination. Chapter 16.28 (Improvements) describes the requirements of a subdivider to provide and connect water mains and fire hydrants to the City's water system, with approval of the number and location of fire hydrants to be determined by the Fire Chief.

Parks and Recreation

QUIMBY ACT

The Quimby Act (California Government Code Section 66477) states that "the legislative body of a city or county may, by ordinance, require the dedication of land or impose a requirement of the payment of fees in lieu thereof, or a combination of both, for park or recreational purposes as a condition to the approval of a tentative or parcel map." Requirements of the Quimby Act apply only to the acquisition of new parkland and do not apply to the physical development of new park facilities or associated operations and maintenance costs. The Quimby Act seeks to preserve open space needed to develop parkland and recreational facilities; however, the actual development of parks and other recreational facilities is subject to discretionary approval and is evaluated on a case-by-case basis with new residential development. The City has adopted park fees as allowed by the Quimby Act, as described in greater detail below.

LATHROP MUNICIPAL CODE

The Lathrop Municipal Code contains ordinances regulating park fees within the City of Lathrop. Chapter 3.20 provides for the City's Impact Fee Ordinance, which requires development impact fees to be charged to fund improvements to the City's infrastructure. Chapter 12.20 allows the city council to authorize the adoption of fees for recreation programs and for the use of park facilities for non-city functions, and provides other provisions related to parks within the City of Lathrop.

LATHROP PARKS AND RECREATION MASTER PLAN

The City of Lathrop adopted a Parks and Recreation Master Plan in 2020. The Master Plan evaluates the parks and recreation needs of the community and develop strategies, policies, and actions that reflect those needs to create better places to recreate within Lathrop. This document provides the City's Parks and Recreation Department with precise direction and be a realistic guide over the Planning Period.

Schools

CALIFORNIA CODE OF REGULATIONS

The California Code of Regulations, Chapter 4.9, Payment of Fees, Charges, Dedications, or Other Requirements Against a Development Project. Section 65995-65998 (h) The payment or satisfaction of a fee, charge, or other requirement levied or imposed pursuant to Section 17620 of the Education Code in the amount specified in Section 65995 and, if applicable, any amounts specified in Section 65995.5 or 65995.7 are hereby deemed to be full and complete mitigation of the impacts of any legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property, or any change in governmental organization or reorganization as defined in Section 56021 or 56073, on the provision of adequate school facilities.

CALIFORNIA DEPARTMENT OF EDUCATION

The California Department of Education (CDE) School Facilities Planning Division (SFPD) prepared a School Site Selection and Approval Guide that provides criteria for locating appropriate school sites in the State of California. School site and size recommendations were changed by the CDE in 2000 to reflect various changes in educational conditions, such as lowering of class sizes and use of advanced technology. The expanded use of school buildings and grounds for community and agency joint use and concern for the safety of the students and staff members also influenced the modification of the CDE recommendations.

Specific recommendations for school size are provided in the School Site Analysis and Development Guide. This document suggests a ratio of 1:2 between buildings and land. CDE is aware that in a number of cases, primarily in urban settings, smaller sites cannot accommodate this ratio. In such cases, the SFPD may approve an amount of acreage less than the recommended gross site size and building-to-ground ratio.

Certain health and safety requirements for school site selection are governed by state regulations and the policies of the SFPD relating to:

- Proximity to airports, high-voltage power transmission lines, railroads, and major roadways;
- Presence of toxic and hazardous substances;
- Hazardous facilities and hazardous air emissions within one-quarter mile;
- Proximity to high-pressure natural gas lines, propane storage facilities, gasoline lines, pressurized sewer lines, or high-pressure water pipelines;
- Noise;
- Results of geological studies or soil analyses; and
- Traffic and school bus safety issues.

THE KINDERGARTEN-UNIVERSITY PUBLIC EDUCATION FACILITIES BOND ACT OF 2002 (PROP 47)

This act was approved by California voters in November 2002 and provides for a bond issue of $13.05 billion to fund necessary education facilities to relieve overcrowding and to repair older schools. Funds will be targeted at areas of greatest need and must be spent according to strict accountability measures. Funds will also be used to upgrade and build new classrooms in the California Community Colleges, the California State University, and the University of California in order to provide adequate higher education facilities to accommodate growing student enrollment.

LEROY F. GREENE SCHOOL FACILITIES ACT OF 1998 (SB 50)

The "Leroy F. Greene School Facilities Act of 1998," also known as Senate Bill 50 or SB 50 (Chapter 407, Statutes of 1998), governs a school district's authority to levy school impact fees. This comprehensive legislation, together with the $9.2 billion education bond act approved by the voters in November 1998 known as "Proposition 1A", reformed methods of school construction financing in California. SB 50 instituted a new school facility program by which school districts can apply for state construction and modernization funds. It imposed limitations on the power of cities and counties to require mitigation of school facilities impacts as a condition of approving new development and provided the authority for school districts to levy fees at three different levels:

- Level I fees are the current statutory fees allowed under Education Code 17620. This code section provides the basic authority for school districts to levy a fee against residential and commercial construction for the purpose of funding school construction or reconstruction of facilities. These fees vary by district for residential construction and commercial construction and are increased biannually.
- Level II fees are outlined in Government Code Section 65995.5, allowing school districts to impose a higher fee on residential construction if certain conditions are met. These conditions include having a substantial percentage of students on multi-track year-round scheduling, having an assumed debt equal to 15–30 percent of the district's bonding capacity (percentage is based on revenue sources for repayment), having at least 20 percent of the district's teaching stations housed in relocatable classrooms, and having placed a local bond on the ballot in the past four years which received at least 50 percent plus one of the votes cast. A Facility Needs Assessment must demonstrate the need for

new school facilities for unhoused pupils is attributable to projected enrollment growth from the construction of new residential units over the next five years.

- Level III fees are outlined in Government Code Section 655995.7. If State funding becomes unavailable, this code section authorizes a school district that has been approved to collect Level II fees to collect a higher fee on residential construction. This fee is equal to twice the amount of Level II fees. However, if a district eventually receives State funding, this excess fee may be reimbursed to the developers or subtracted from the amount of state funding.

LOCAL

City of Lathrop General Plan

POLICIES: PUBLIC FACILITIES AND SAFETY ELEMENT

- PFS-1.1 Service Enhancements. Encourage the implementation of new techniques and technologies to provide the best available level of community services in a cost-effective manner.
- PFS-1.4 Revenue Sources. Identify and proactively pursue local, stable, and predictable sources of revenue to meet public facility, service, and infrastructure needs.
- PFS-1.6 Capital Improvements. Maintain and fund the capital improvement program to ensure the adequate and efficient provision of public facility and municipal improvements.
- PFS-1.8 Cost Recovery. Recover the direct upfront costs and indirect long-term costs of providing services and facilities to new development through a combination of fees, exactions, and other methods based on an evaluation of long-term economic benefits and in a manner consistent with the City's cost recovery goals.
- PFS-1.9 Economic Development and Residential Growth Focus. Plan and develop public services and facilities to support economic development and residential growth.
- PFS-1.12 Infrastructure Rehabilitation. Prioritize the regular maintenance and rehabilitation of public facilities and critical Demonstrate Capacity. Require new development to demonstrate that the City's public services and facilities can accommodate the increased demand for said services and facilities associated with the project as part of the entitlement process.
- PFS-1.13 Mitigate Impacts. Require new development to offset or mitigate impacts to community services and facilities to ensure that service levels for existing users are not degraded or impaired by new development, to the satisfaction of the City.
- PFS-7.1 Fire and Police Facilities. Encourage the Lathrop Manteca Fire Protection District (LMFD) and the San Joaquin County Sheriff's Department to maintain adequate staff and equipment to provide efficient, high quality, and responsive fire protection, police protection, and emergency medical services to existing and future growth in the city.
- PFS-7.2 Emergency Response Times. Work cooperatively with the LMFD, the San Joaquin County Sheriff's Department, and providers of emergency medical services to ensure acceptable response times in accordance with provider standards.
- PFS-7.4 Roadway Design and Maintenance. Design and maintain roadways to maintain acceptable emergency vehicle response times.

- PFS-7.5 Department Consultation. Coordinate with LMFD and the San Joaquin County Sheriff's Department in the review of new development applications to ensure that adequate attention is being paid to fire and safety concerns during the design and planning of a project.
- PFS-7.6 Crime Prevention. Promote and support community-based crime prevention programs, such as community policing, public education, youth crime prevention, and outreach programs, as an important tool to the provision of professional police services.
- PFS-7.7 Community Awareness. Support the LMFD and the San Joaquin County Sheriff's Department in promoting community awareness regarding crime through public service organizations, and the establishment of citizen involved programs and patrols.
- PFS-7.8 Site Design. Recognize the role of site design in crime prevention and implement best practices into existing plans and new development strategies.
- PFS-7.9 Technology. Encourage and support efforts to improve police, fire, and emergency medical services through improved use of modern technology and industry best practices.
- PFS-8.2 Adequate Facilities. Continue to engage Manteca Unified School District (MUSD) in the environmental review process for land use changes so that they can provide adequate educational opportunities for all students in a timely manner in accordance with the pace of residential development.
- PFS-8.5 Financing and Proportionate Share. Work with MUSD to encourage the planned financing of new school facilities concurrent with new development and to ensure that new development funds its proportionate share of the development.

POLICIES: PUBLIC SAFETY ELEMENT

- PS-2.2 Fire Protection Services. Coordinate with the Lathrop Manteca Fire Protection District (LMFD) in the provision of fire protection services to serve the city's current and future population and development.
- PS-2.6 Water Supply. Ensure that new development is served with adequate water volumes and water pressure to support fire protection, including a fire flow standard of 3,000 gpm for commercial and industrial areas and 1,500 gpm for residential areas.

3.12.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on public services if it would result in:

- Substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or the 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:
    - Police Protection
    - Fire Protection

  - Parks and Recreation
  - Schools
  - Other public facilities

- 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.
- Require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

It is important to note that, in addressing public service demand issues under CEQA, including parks and recreational facilities, the appropriate focus is on the environmental effects of whatever steps might be necessary to achieve or maintain adequate service. For example, if proposed new development would create an increased demand for law enforcement or fire protection services, an EIR should inquire as to whether new or expanded physical facilities may be required in order to provide such service. The "impacts" addressed under CEQA are the physical effects of providing service, not any possible failure to provide adequate service under applicable standards. (See *City of Hayward v. Board of Trustees of the Cal. State University* (2015) 242 Cal.App.4th 833, 843 ["[t]he need for additional fire protection services is not an environmental impact that CEQA requires a project proponent to mitigate"]; *Goleta Union School Dist. v. Regents of Univ. of Cal*. (1995) 37 Cal.App.4th 1025, 1031–1034 [school overcrowding attributable to new development is not an environmental effect subject to CEQA, though the physical effects of new facility construction to serve new students would be]; and CEQA Guidelines, § 15131, subd. (a) ["[e]conomic or social effects of a project shall not be treated as significant effects on the environment"].)

This does not mean, however, that a city or county is powerless to require new development to take the steps needed to ensure adequate public services, such as law enforcement service. Such steps are simply beyond the scope of CEQA. They should instead be imposed under some other body of State statutory law (e.g., the Planning and Zoning Law [Gov. Code, § 65300 et seq.] or the Subdivision Map Act [Gov. Code, § 66410 et seq.]) or under a local government's broad police power under the California Constitution. (See Cal. Const., Art. XI, § 7; *Candid Enterprises, Inc. v. Grossmont Union High School Dist.* (1985) 39 Cal.3d 878, 885.)

It is also important to understand that special legal principles apply to impacts to school facilities. According to Government Code Section 65996, the development fees authorized by Senate Bill 50 (1998) (described earlier) are deemed to be "full and complete school facilities mitigation" for impact caused by new development. The legislation also recognized the need for the fee to be adjusted periodically to keep pace with inflation. The legislation indicated that in January 2000, and every two years thereafter, the State Allocation Board would increase the maximum fees according to the adjustment for inflation in the statewide index for school construction.

Section 65996 also prohibits public agencies from using CEQA or "any other provision of state or local law" to deny approval of "a legislative or adjudicative act, or both, involving, but not limited to, the planning, use, or development of real property or any change in governmental organization or reorganization" on the basis of the project's impacts on school facilities.

IMPACTS AND MITIGATION MEASURES

Impact 3.12-1: The proposed Project will not result in or require the construction of police department facilities which may cause substantial adverse physical environmental impacts (Less than Significant)

The City's General Plan includes policies that would allow for the City's police services to continue providing adequate staffing levels. Below is a list of relevant policies:

- PFS-1.6 Capital Improvements. Maintain and fund the capital improvement program to ensure the adequate and efficient provision of public facility and municipal improvements.
- PFS-1.13 Demonstrate Capacity. Require new development to demonstrate that the City's public services and facilities can accommodate the increased demand for said services and facilities associated with the project as part of the entitlement process.
- PFS-7.1 Fire and Police Facilities. Encourage the Lathrop Manteca Fire Protection District (LMFD) to maintain adequate staff and equipment to provide efficient, high quality, and responsive fire protection, and emergency medical services to existing and future growth in the city.
- PFS-7.3 Enhanced Service. Periodically review and, if necessary, amend the criteria for determining the circumstances under which fire, police, and emergency services will be enhanced.
- PFS-7.5 Department Consultation. Coordinate with LMFD and the Lathrop Police Department in the review of new development applications to ensure that adequate attention is being paid to fire and safety concerns during the design and planning of a project.
- PFS-1.8 Cost Recovery. Recover the direct upfront costs and indirect long-term costs of providing services and facilities to new development through a combination of fees, exactions, and other methods based on an evaluation of long-term economic benefits and in a manner consistent with the City's cost recovery goals.

The City collects impact fees from new development based upon projected impacts from each development. The City also reviews the adequacy of impact fees on an annual basis to ensure that the fee is commensurate with the service. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund capital and labor costs associated with police services.

According to the City's General Plan Update Draft EIR, development and growth facilitated by the General Plan would result in increased demand for public services, including fire protection, law enforcement, schools, parks, libraries, and other public and governmental services. As the demand for services increases, there will likely be a need for new or expanded service structures (e.g., office, maintenance, and administrative buildings and facilities, schools, parks, fire facilities, libraries, etc.) to provide for adequate staffing, equipment, and appropriate facilities to serve growth in the city. Existing facilities may be expanded at their current location. New facilities may

also be constructed. The Public/Quasi-Public, Park, and Open Space land use designations would accommodate the majority of new public facilities necessary to provide community services. There would likely be environmental impacts associated with the construction or expansion of the facilities needed to provide public services. Such development would also be analyzed for potential environmental impacts, consistent with the requirements of CEQA. Any future expansion of public facilities required by growth in the City would be required to be reviewed for site-specific impacts.

The proposed Project would not result in, or have the potential to require, the construction of police department facilities which may cause substantial adverse physical environmental impacts. Development of the Project would not directly trigger the need for a new facility. The City collects impact fees from new development based upon projected impacts from the development. The City also reviews the adequacy of impact fees on an annual basis to ensure that the fee is commensurate with anticipated future facilities demands, assessed on a fair share basis for new development. Payment of the applicable impact fees by the Project applicant and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund these public service needs created by the proposed Project.

The proposed Project does not trigger the need for a police station or expansion of existing facilities. Therefore, the Project will have a ***less than significant*** impact relative to this topic.

Impact 3.12-2: The proposed Project will not require the construction of fire department facilities which may cause substantial adverse physical environmental impacts (Less than Significant)

The City's General Plan includes policies and actions that would allow for LMFD to continue providing adequate facilities and staffing levels. Below is a list of relevant policies:

- PFS-1.6 Capital Improvements. Maintain and fund the capital improvement program to ensure the adequate and efficient provision of public facility and municipal improvements.
- PFS-1.8 Cost Recovery. Recover the direct upfront costs and indirect long-term costs of providing services and facilities to new development through a combination of fees, exactions, and other methods based on an evaluation of long-term economic benefits and in a manner consistent with the City's cost recovery goals.
- PFS-1.13 Demonstrate Capacity. Require new development to demonstrate that the City's public services and facilities can accommodate the increased demand for said services and facilities associated with the project as part of the entitlement process.
- PS-2.2 Fire Protection Services. Coordinate with the Lathrop Manteca Fire Protection District (LMFD) in the provision of fire protection services to serve the city's current and future population and development.
- PFS-7.1 Fire and Police Facilities. Encourage the Lathrop Manteca Fire Protection District (LMFD) to maintain adequate staff and equipment to provide efficient, high quality, and responsive fire protection, and emergency medical services to existing and future growth in the city.

- PFS-7.3 Enhanced Service. Periodically review and, if necessary, amend the criteria for determining the circumstances under which fire, police, and emergency services will be enhanced.
- PFS-7.5 Department Consultation. Coordinate with LMFD and the Lathrop Police Department in the review of new development applications to ensure that adequate attention is being paid to fire and safety concerns during the design and planning of a project.
- PFS-7b The LMFD and the Public Works Department will review proposed development projects and street networks to evaluate the accessibility for fire engines and other emergency response functions.

Fire sprinklers are required by the California Fire Code and will be incorporated into the proposed Project. Additionally, the Project includes two fire hydrants as required by current city standards. Both are located in the north- and west-central portions of the site near the future Roth Road to provide fire suppression access.

The City of Lathrop collects impact fees from new development based upon projected impacts from each development. The adequacy of impact fees is reviewed on an annual basis to ensure that the fee is commensurate with the need for new fire stations and expanded fire services to serve areas of Lathrop. The proposed Project is required to pay its fair share of the fire impact fee. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund capital and labor costs associated with fire protection services.

As noted above in Impact 3.12-1, according to the City's General Plan Update Draft EIR, development and growth facilitated by the General Plan would result in increased demand for public services, including fire protection, law enforcement, schools, parks, libraries, and other public and governmental services. As the demand for services increases, there will likely be a need for new or expanded service structures (e.g., office, maintenance, and administrative buildings and facilities, schools, parks, fire facilities, libraries, etc.) to provide for adequate staffing, equipment, and appropriate facilities to serve growth in the city. Existing facilities may be expanded at their current location. Such development would also be analyzed for potential environmental impacts, consistent with the requirements of CEQA. Any future expansion of public facilities required by growth in the City would be required to be reviewed for site-specific impacts.

The proposed Project does not trigger the need for a fire station or expansion of existing facilities. Therefore, the Project will have a ***less than significant*** impact relative to this topic.

Impact 3.12-3: The proposed Project will not 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, but the proposed Project will require the construction of park and recreational facilities which may cause substantial adverse physical environmental impacts. (Less than Significant)

The proposed Project does not include any new residential development and will not directly or indirectly increase the City's population. As such the need for additional park facilities is not anticipated. Although the Project does not propose formal park or recreational facilities, the Project includes development of a dug run area enclosed with a metal fence. The Project would add additional jobs to the local economy, The City collects impact fees from new development based upon projected impacts from each development, including impacts on these park facilities. The City also reviews the adequacy of impact fees on an annual basis to ensure that the fee is commensurate with the service. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund capital and labor costs associated with recreational facilities.

The proposed Project does not trigger the need for new park or recreational facilities. Thus, the Project will have a ***less than significant*** impact relative to this topic.

Impact 3.12-4: Project implementation will not result in the need for the construction of new schools which have the potential to cause substantial adverse physical environmental impacts (Less than Significant)

As noted previously, the proposed Project does not include any new residential development and will not directly or indirectly increase the City's population. As such the need for additional school facilities is not anticipated. The Project could add additional jobs to the local economy, however, the additional employment is anticipated to come primarily from the local workforce. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund capital and labor costs associated with schools services.

MUSD collect impact fees from new developments under the provisions of SB 50. As of July 27, 2022 the current Level I Developer Fees for industrial development are $0.78 per square foot. Under Section 65996 of the California Government Code, the payment of fees under SB 50 is deemed to fully mitigate the impacts of new development on school facilities. Implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

Impact 3.12-5: The proposed Project will not have significant effects on other public facilities. (Less than Significant)

As noted previously, the proposed Project does not include any new residential development and will not directly or indirectly increase the City's population. As such the need for additional public services such as library services, animal services, parks and recreation, and other services provided

to City residents is not anticipated. The Project could add additional jobs to the local economy, however, the additional employment is anticipated to come primarily from the local workforce. Additional demands on other public facilities including utilities could result from Project implementation. Impacts on these facilities is discussed in further detail in Section 3.14 (Utilities). The City collects impact fees from new development based upon projected impacts from each development, including impacts on these other public services. The City also reviews the adequacy of impact fees on an annual basis to ensure that the fee is commensurate with the service. Payment of the applicable impact fees by the Project applicant, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the Project, would fund capital and labor costs associated with these other public services.

The proposed Project does not trigger the need for new facilities associated with these other public services. New facilities for these other public services are not proposed at this time. The proposed Project would not result in the need for new facilities for these other public services, thus it will have a ***less than significant*** impact relative to this topic.

This section of the EIR analyzes the potential impacts of the proposed Project on the surrounding transportation system including roadways, bicycle/pedestrian facilities, and transit facilities/services. This section identifies the significant impacts of the proposed Project and recommends mitigation measures to lessen their significance. An evaluation of vehicular access to the Project Area is also provided. All technical calculations are in Appendix G of the Draft EIR.

3.13.1 ENVIRONMENTAL SETTING

PROJECT LOCATION

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

PROJECT AREA ROADWAYS AND INTERSECTIONS

Roadways

Regional access to the Project Area is currently provided by many roads that fall under the jurisdiction of the City of Lathrop, as well as roads maintained by the City of Stockton, San Joaquin County, and Caltrans.

Two major streets generally adjoin the Specific Plan Area:

Roth Road is an east-west arterial that extends easterly through Lathrop from the intersection on Manthey Road on the west to its eastern terminus at the Airport Way intersection. Roth Road is a two-lane roadway with center left-turn lanes in various portions. Roth Road continues under I-5 near the Project site. The posted speed limit on Roth Road is 40 miles per hour (mph).

In the 2022 San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) Document, the I-5 at Roth Road interchange (Project SJ11-2004) would be modified to provide operational (traffic signals) and capacity (through lanes and turn pockets) improvements to serve projected traffic volumes from the City of Lathrop, City of Manteca, San Joaquin County, and City of Stockton.

Manthey Road is a north-south arterial that extends from the City of Stockton just south of Walker Slough to its southern terminus at the Lathrop Road intersection in the City of Lathrop.

Manthey Road is a two-lane roadway. The posted speed limit on Manthey Road is 40 mph from Lathrop Road to Dos Reis Road and 45 mph from Dos Reis Road to City Limits.

EXISTING PEDESTRIAN AND BICYCLE FACILITIES

The following sections define bicycle facility types:

- **Class I Bike Path**: Class I bike paths, often referred to as shared-use paths or trails, are off-street facilities that provide exclusive use for non-motorized travel, including bicyclists and pedestrians. Bike paths have minimal cross flow with motorists and are typically located along landscaped corridors.
- **Class II Bike Lane**: Class II bike lanes are on-street facilities that use striping, stencils, and signage to denote preferential or exclusive use by bicyclists. On-street bike lanes are located adjacent to motor vehicle traffic.
- **Class III Bike Route**: Class III bike routes are streets with signage and optional pavement markings where bicyclists travel on the shoulder or share a lane with motor vehicles. Class III bike routes are utilized on low-speed and low-volume streets to connect bike lanes or paths along corridors that do not provide enough space for dedicated lanes.
- **Class III Bicycle Boulevard**: Class III bicycle boulevards are similar to Class III bike routes, in that they are primarily utilized on low-speed and low-volume streets, and can close important gaps in the bicycle network where there may be insufficient space for dedicated lanes. Bicycle boulevards provide further enhancements to bike routes to encourage slow speeds and discourage non-local vehicle traffic via traffic diverters, chicanes, traffic circles, and/or speed tables.
- **Class IV Separated Bikeway**: Class IV separated bikeways, commonly known as cycle tracks, are physically separated bicycle facilities that are distinct from the sidewalk and designed for exclusive use by bicyclists. They are located within the street right-of-way, but provide comfort similar to Class I bike paths.

Pedestrian facilities include sidewalks along roadways, crosswalks at intersections, and pedestrian push buttons and pedestrian signal timings at signalized intersections.

There are currently no bicycle or pedestrian facilities on Manthey Road, Roth Road, or Harlan Road in the project study area.

TRANSIT SERVICE

The Altamont Corridor Express (ACE) rail service connects Lathrop to San Jose and the Bay Area and also connects Stockton to Lathrop. During weekdays, four westbound trains serve Lathrop between 4:29 AM and 7:51 AM and four eastbound trains serve Lathrop between 5:23 PM and 8:26 PM. The Lathrop/Manteca station is located on Shideler Parkway at Yosemite Avenue (just east of McKinley Avenue). ACE trains allow bicycles on designated passenger train cars.

The San Joaquin Regional Transit District provides connections from Lathrop to Stockton, and Dublin/Pleasanton, and other destinations in San Joaquin County.

San Joaquin Regional Transit District **Route 90** connects Lathrop to Stockton and Tracy with service weekdays, once in the morning and once in the afternoon both northbound and southbound. A stop is provided on Louise Avenue at Harlan Road and 5th Street at the Lathrop Community Center.

San Joaquin Regional Transit District **Route 150** provides commuter service from Lathrop to the Dublin/Pleasanton BART station with seven departures every day. One stop is provided at the Crossroads Shopping Center on Harlan Road south of Lathrop Road.

San Joaquin Regional Transit District **Van Go!** service provides on-demand rideshare travel anywhere withing the county with a 48-hour reservation from 8 AM to 5 PM seven days a week.

There is currently no local or regional transit stop in the vicinity of the project site.

3.13.2 REGULATORY SETTING

Existing transportation policies, laws, and regulations that would apply to the proposed Project are summarized below. This information provides a context for the impact discussion related to the proposed Project's consistency with applicable regulatory conditions and development of significance criteria for evaluating Project impacts.

FEDERAL

Americans With Disabilities Act

The Americans with Disabilities Act (ADA) of 1990 provides comprehensive rights and protections to individuals with disabilities. The goal of the ADA is to assure equality of opportunity, full participation, independent living, and economic self-sufficiency. To implement this goal, the United States Access Board has created accessibility guidelines for public rights-of-way. The guidelines address various issues, including roadway design practices, slope and terrain issues, pedestrian access to streets, sidewalks, curb ramps, street furnishings, pedestrian signals, parking, and other components of public rights-of-way.

STATE

Senate Bill 743

Senate Bill (SB) 743 (Steinberg, 2013), enacted in 2013, created Public Resources Code section 21099, which directed the Governor's Office of Planning and Research (OPR) and the Secretary of the Natural Resources Agency to establish criteria for determining the significance of transportation impacts of projects within transit priority areas, with the option of creating new statewide criteria. The significance criteria for transit priority areas were to promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. In developing the new criteria, OPR and the Secretary were to recommend potential metrics that included, but were not limited to, vehicle miles traveled [VMT], vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated. Section

21099 further provided that, once the CEQA Guidelines had been updated as required by the statute, "automobile delay, as described solely by level of service [LOS] or similar measures of vehicular capacity or traffic congestion shall not be considered a significant impact on the environment pursuant to [CEQA], except in locations specifically identified in the guidelines, if any."

Consistent with these directives, the Natural Resources Agency promulgated CEQA Guidelines section 15064.3, which became effective in late 2018. It provides that "[g]enerally, vehicle miles traveled is the most appropriate measure of transportation impacts," with VMT referring to "the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel." Rather than limit its scope only to transit priority areas, the section changed the approach to assessing transportation impacts under CEQA all over the State. By its own terms, however, the section did not require agencies to begin using VMT as a new metric until July 1, 2020. LOS had ceased to be a valid significance criterion as of late 2018, however. (See *Citizens for Positive Growth & Preservation v. City of Sacramento* (2019) 43 Cal.App.5th 609, 625-626.)

In December 2018, OPR published final technical guidance for implementing CEQA Guidelines Section 15064.3. While this document does not have the force of law, the technical guidance provides helpful information to agencies such as the City, and sets forth OPR's own understanding of the best strategies for implementing Section 15064.3.

Caltrans

Caltrans is responsible for planning, designing, constructing, operating, and maintaining all state-owned roadways in California. Federal highway standards are implemented in California by Caltrans. Any improvements or modifications to the state highway system within the City of Lathrop need to be approved by Caltrans. The City of Lathrop does not have the ability to unilaterally make improvements to the state highway system.

TRAFFIC STUDY GUIDELINES

The Caltrans document *Transportation Impact Study Guide* (California Department of Transportation 2020) identifies circumstances under which Caltrans determines that a traffic impact study would be required. The document also details information that is to be included in the study, analysis scenarios, and guidance on acceptable analysis methodologies, including CEQA focus on VMT rather than level of service (LOS), alternative transportation modes and safety.

LOCAL

SJCOG Regional Transportation Plan and Sustainable Community Strategy

The current RTP/SCS produced by SJCOG was adopted in 2022. The RTP/SCS sets forth regional transportation policy and provides capital program planning for all regional, state, and federally funded projects. The RTP/SCS also demonstrates how land use development and transportation

can work together to meet greenhouse gas emission reduction targets for cars and light trucks. The RTP can be considered the San Joaquin region's "statement of priorities" for the future transportation system.

Measure K: San Joaquin County Local Transportation Improvement Plan

Measure K, the San Joaquin County Local Transportation Improvement Plan, was passed by San Joaquin County voters in November 1990 and renewed in November 2006. Measure K assesses a half-cent sales tax on purchases made throughout the County to provide direct funding for local transportation projects. The funds are dedicated to the specific programs and projects specified in the Measure K expenditure plan, including improved highways and local streets, new passenger rail service, regional and interregional bus routes, park-and-ride lots, new bicycle facilities, and railroad crossings. The renewal of Measure K is estimated to generate $2.552 billion for these transportation programs in the region through the year 2041. Funding from Measure K has been used to construct the Lathrop Road overcrossing of the Union Pacific railroad, among other projects.

SJCOG San Joaquin County Regional Congestion Management Program

As the designated Congestion Management Agency (CMA) for San Joaquin County, the SJCOG is responsible for updating County's Regional Congestion Management Program (RCMP) and monitoring its implementation. The 2021 proposed RCMP network includes the following corridors in Lathrop:

- I-5
- SR 120
- Roth Road
- Lathrop Road
- Louise Avenue
- Golden Valley Parkway

None of these proposed corridors are identified in the program as deficient.

San Joaquin Valley Air Pollution Control District (SJVAPCD)

SJVAPCD has implemented Rule 9410, Employer Based Trip Reduction. The purpose of this rule is to reduce VMT from private vehicles used by employees to commute to and from their worksites to reduce emissions of NOx, ROG, and particulate matter (PM_{10} and $PM_{2.5}$). The rule applies to employers with at least 100 employees. Employers are required to implement an Employer Trip Reduction Implementation Plan (ETRIP) for each worksite with 100 or more eligible employees to meet applicable targets specified in the rule. Employers are required to facilitate the participation of the development of ETRIPs by providing information to its employees explaining the requirements and applicability of this rule. Employers are required to prepare and submit an ETRIP for each worksite to the District. The ETRIP must be updated annually. Under this rule, employers shall collect information on the modes of transportation used for each eligible employee's

commutes both to and from work for every day of the commute verification period, as defined in using either the mandatory commute verification method or a representative survey method. Annual reporting includes the results of the commute verification for the previous calendar year along with the measures implemented as outlined in the ETRIP and, if necessary, any updates to the ETRIP.

City of Lathrop General Plan

POLICIES: LAND USE

- LU-1.1 Support a full spectrum of conveniently located residential, commercial, industrial, public, and quasi-public uses that support business development, regional transportation objectives and the livability of residential neighborhoods.
- LU-1.9 Promote equitable land use patterns to provide all residents in all neighborhoods access to community amenities and transportation choices, and increase safety for walking and biking.
- LU-3.1 Support regional efforts that promote higher densities and intensities near major transit and travel facilities, and reduce regional vehicle miles traveled by supporting active modes of transportation including walking, biking, and public transit.

POLICIES: CIRCULATION

- CIR-1.2 Complete Streets. Consider all modes of travel in planning, design, and construction of all transportation projects to create safer, more livable, and more inviting environments for pedestrians, bicyclists, motorists and public transit users of all ages and capabilities.
- CIR-1.3 Facility Service Levels. Strive for intersection level of service (LOS) D or better within the City, except where maintaining such levels of service are infeasible:
    - a. Where maintaining the standard would be a disincentive to walking, bicycling, or transit.
    - b. Where maintaining the standard would be incompatible with adjacent land uses.
    - c. Where constructing facilities would prevent the City from achieving goals for vehicle miles traveled (VMT) or other priorities.
    - d. Where constructing facilities with sufficient capacity would be unreasonably expensive.
- CIR-2.2 Safety. Improve safety conditions, efficiency, and comfort for bicyclists and pedestrians by providing shade trees and controlling traffic speeds by implementing narrow lanes or other traffic calming measures.
- CIR-2.4 Transit Access. Provide safer, more convenient access to transit service including rail, bus, and paratransit.
- CIR-2.5 Amenities. To support bicycle, pedestrian, and transit usage, provide amenities including pedestrian-scale lighting, bicycle parking, shade trees and landscaping, and bus shelters and benches.

- CIR-4.1 Land Use Supporting Reduced VMT. Support land use with increased land use densities and mixed uses, consistent with the Land Use Element, to reduce vehicle miles traveled and promote the use of walking, biking, and transit.
- CIR-4.2 Demand Management. Encourage employers to provide programs for carpooling/transit/biking/walking, transit ridership subsidies, bicycle facilities, alternative work schedules, ridesharing, telecommuting, working at home, employee education, and preferential parking for carpools/vanpools.
- CIR-4.3 New Technologies. Monitor deployment of new transportation technologies and services and develop policies that implement best practices to ensure these technologies and services benefit the public and the multimodal transportation system.

POLICY: ENVIRONMENTAL JUSTICE

- EJ-1.1 Land Use Patterns. Create land use patterns that are transit, bicycle, and pedestrian-oriented and have a mix of uses, especially neighborhood serving businesses, within walking distance of homes and workplaces.

City of Lathrop VMT Screening Criteria and Thresholds of Significance

Resolution No. 20-4784, adopted by the City Council on September 14, 2020, enacted the following levels of significance for land use projects in the City:

- **Residential projects**: 15 percent below existing (baseline) citywide VMT per household or per resident
- **Office projects**: 15 percent below existing (baseline) citywide VMT per employee
- **Retail projects**: A net increase in existing (baseline) citywide VMT per employee
- **Mixed-use projects**: Evaluate each land use separately

Baseline VMT is defined as the average VMT per project type for the City of Lathrop under Baseline Year 2020 conditions using the City of Lathrop Travel Demand Model.

The resolution also adopted the following screening criteria to quickly identify when a project should be expected to cause a less than significant VMT impact without conducting a detailed VMT analysis:

- **Small projects**: Generation of less than 110 daily trips.
- **Projects located in low-VMT areas**: Projects in areas with low VMT (to be identified as part of the General Plan update), with similar features (i.e., density, mix of uses, and transit accessibility) to the nearby developments.
- **Projects in proximity to a major transit stop**: Projects located within a half-mile of an existing or planned high-quality transit corridor or major transit station. In Lathrop, this includes the existing Lathrop ACE station, the future Valley Link stations, and at stops for bus routes with headways of 15 minutes or less. This criterion does not apply if a project:
    - Has a floor area ratio (FAR) of less than 0.75;
    - Includes more parking than required by the City of Lathrop;

  - Is inconsistent with the SJCOG RTP/SCS; or
  - Replaces affordable residential units with a smaller number of moderate- or high-income residential units.
- **Affordable housing**: Residential projects containing a particular amount of affordable housing (based on local circumstances and substantial evidence as determined by the City).
- **Local-serving retail**: Local-serving retail projects of less than 50,000 square feet. Staff shall evaluate both the project characteristics and the context of the project location to decide as to whether a given retail project is local serving.
- **Transportation projects that do not result in an increase in VMT**: Transit projects, bicycle and pedestrian projects, and roadway projects that do not result in an increase in vehicle capacity or VMT.

City of Lathrop Bicycle Transportation Plan

The 1995 Lathrop Bicycle Transportation Plan, last updated in 2004, was developed to improve and expand bicycling opportunities in Lathrop. The Bicycle Transportation Plan provides an additional level of refinement to the General Plan's Transportation and Circulation Element by providing a detailed set of policies and programs for bicycle circulation improvement. The Plan establishes bicycle goals, objectives, and policies; identifies future bicycle infrastructure projects; and promotes support facilities and educational programs. The following goal and objectives were established by the Plan:

> *Goal A: To create a bikeway system that provides for convenient and safe bicycle circulation throughout Lathrop and maximizes the number of bicycle commuters.*
>
> > *Objective A.1: Provide a comprehensive network of bikeways that provides access to destination points throughout the community.*
> >
> > *Objective A.2: Assure bikeways are fully integrated into all future development occurring within the City's General Plan Sphere.*
> >
> > *Objective A.3: Provide route linkages to regional bikeways.*
> >
> > *Objective A.4: Provide for a high level of rider safety along all bikeways.*

City of Lathrop Truck Route Map

The City of Lathrop Truck Route Map identifies existing and future truck routes within the City. The map includes both Surface Transportation Assistance Administration (STAA) truck routes and other City truck routes. In October 2021, the City Council removed the truck route designation for Lathrop Road between Harlan Road and McKinley Avenue. In November 2023, the City Council removed truck route designation for Golden Valley Parkway north of River Islands Parkway, Lathrop Road west of the southbound I-5 off-ramp, and Manthey Road south of 900 feet north of Dos Reis Road.

City of Lathrop Transportation Monitoring Program

As part of local development agreements and CEQA mitigation requirements developments within the city require participation in an annual Traffic Monitoring Plan TMP that forecasts street and circulation improvement needs.

The TMP monitors roadway conditions, projects roadway congestion two and four years into the future, and schedules when planned roadway improvements should be constructed to keep congestion at acceptable levels. The TMP is important because it establishes performance standards and details how the operations of the roadway system are to be monitored, as well as how improvements are to be scheduled for construction to avoid the roadway system falling below acceptable standards of operation. Developers are required to fund the TMP on a continuing basis until all required traffic improvements have been completed.

City of Lathrop Design and Construction Standards

The City's design and construction standards and standard details provide for coordinated and standardized development of City facilities, including roadways. The standards apply to, regulate, and guide the design and preparation of plans, and the construction of streets, highways, alleys, drainage, traffic signals, site access, and related public improvements. All public roadway infrastructure improvements must be designed and constructed in accordance with the city standards and Caltrans' Standard Specifications (Caltrans 2018).

3.13.3 IMPACTS AND MITIGATION MEASURES

THRESHOLDS OF SIGNIFICANCE

The transportation analysis assesses how the study area's transportation system would operate with the implementation of the proposed Project. The analysis includes effects that would result in significant impacts as set forth in the CEQA Guidelines.

The proposed Project's impact is not considered to be significant unless it would:

- Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.
- Conflict or be inconsistent with CEQA Guideline section 15064.3, subdivision (b).
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- Result in inadequate emergency access.

The second significance criteria is related to the implementation of VMT as the primary performance metric.

Transit, Roadway, Bicycle, and Pedestrian Facilities

These criteria have been applied:

A project is considered to have a significant impact on bicycle or pedestrian facilities if it would:

- eliminate or adversely affect an existing bikeway or pedestrian facility in a way that would discourage its use;
- interfere with the implementation of a planned bikeway as shown in the Bicycle Transportation Plan; or
- result in unsafe conditions for bicyclists or pedestrians, including unsafe bicycle/pedestrian, bicycle/motor vehicle, or pedestrian/motor vehicle conflicts.

A proposed Project is considered to have a significant impact on the public transit system if the proposed Project would generate ridership which may exceed available or planned system capacity, or create a demand for service that cannot reasonably be accommodated by existing transit services.

CEQA Guideline Section 15064.3, Subdivision (b)

APPLICABLE POLICIES AND SIGNIFICANCE CRITERIA

SB 743 was signed into law in 2013 and resulted in a substantial change in the way transportation impact analyses are being prepared. Notably, it precludes the use of LOS to identify significant transportation impacts in CEQA documents for land use projects, with SB 743 recommending that VMT be used as the preferred metric.

On December 28, 2018, the CEQA Guidelines were amended to add Section 15064.3, Determining the Significance of Transportation Impacts, which states that, generally, VMT is the most appropriate measure of transportation impacts. According to 15064.3(a), "Except as provided in subdivision (b)(2) (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact." Beginning on July 1, 2020, the provisions of 15064.3 applied statewide.

To aid lead agencies with SB 743 implementation, the Governor's OPR produced the Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018).[1] The Technical Advisory helps lead agencies think about the variety of implementation questions they face with respect to shifting to a VMT metric. However, the guidance is not a recipe for SB 743 implementation; lead agencies must still make their own specific decisions about methodology, thresholds, and mitigation.

The City of Lathrop adopted thresholds of significance and screening criteria for the purpose of analyzing transportation impacts under CEQA related to VMT on September 20, 2020 and in the

[1] http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

City of Lathrop General Plan Update (September 2022) Circulation Element. The methodology and thresholds identified in Attachment 2 in Resolution No. 20-4784 will be applied to the proposed Project to determine if the Project would result in a CEQA VMT impact.

The City's guidelines identify VMT per employee as the VMT metric for retail / commercial land uses. VMT per retail employee includes VMT associated with trips produced by a project on a typical weekday. The VMT Guidelines also identify a project resulting in a net increase in existing city-wide VMT per employee would indicate a significant transportation impact. This metric reflects the nature of most local-serving retail to distribute existing vehicle trips and serve both pass-by and diverted vehicle trips, rather than generate or inducing all new vehicle trips to and from the project site.

VMT ANALYSIS METHODOLOGY

As part of the City of Lathrop General Plan Update, Fehr & Peers developed the City of Lathrop, Manteca, and Ripon Travel Forecasting Model (Three City TFM). The Three City TFM is a modified version of the Three-County RTP/SCS Air Quality Conformity Model, with improvements to all major components (transportation network, land use, and trip-generation rates) focused on this three-city area. Each scenario of the TFM used for VMT forecasting is described below.

Baseline Year (2019) TFM: The Base Year TFM developed for the General Plan Update was used to develop Baseline city-wide average weekday daily VMT per employee for all retail / commercial projects in the City of Lathrop. It should be noted that the use of VMT per employee is the standard methodology used to evaluate potential SB 743 VMT impacts. The Baseline Year TFM incorporates Base Year land use data for dwelling units (single-family and multi-family) and employment (food, retail, office, industrial, medical, government, and school), as well as the roadway network (travel lanes, speed, capacity class), based on Base Year (i.e., 2019) data. The Three City TFM vehicle trip generation rates were derived from the Institute of Transportation Engineer's (ITE) Trip Generation Manual and include inbound/outbound trip generation rates for residential and employment land uses for Daily, AM and PM peak hour conditions.

The Three City TFM was calibrated to reflect more accurate trip distribution for Internal-to-Internal Trips (II), Internal-to-External Trips (IX), External-to-Internal Trips (XI) and External-to-External (XX or Through) Trips based on a combination of the Caltrans Household Travel Survey (CHTS), the American Community Survey (ACS), and California Statewide Model to replicate the majority of vehicle trips traveling to and from the west (Metropolitan San Francisco Bay Area) and a smaller percentage to and from the north (including Stockton and Sacramento) and the smallest percentage to and from the south (I-5 corridor).

The existing (baseline) city-wide average VMT per employee was determined to be 135.3 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

Cumulative Adopted (September 2022) General Plan Buildout Scenario TFM: The City of Lathrop updated its General Plan, and the Three City TFM was used to estimate the Project's weekday daily home-based VMT per retail employee under cumulative Adopted General Plan Buildout conditions. This scenario of the TFM incorporates land use data (dwelling units and employment) and reflects the City of Lathrop's jobs-housing balance, II, IX, XI, and XX trips under cumulative conditions where the City of Lathrop General Plan is built out.

This scenario also incorporates roadway network (lanes, speed, capacity class) based on the adopted City of Lathrop General Plan, the City of Lathrop Capital Improvement Program (CIP), and the SJCOG RTP/SCS Project List.

The cumulative (general plan) city-wide average VMT per employee was determined to be 211.5 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

IMPACTS AND MITIGATION MEASURES

Impact 3.13-1: Implementation of the proposed Project would not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. (Less than Significant with Mitigation)

TRANSIT SERVICE AND FACILITIES

The proposed Project would not be expected to noticeably increase bus ridership. The Project would not disrupt or interfere with existing or planned public transit services or facilities. It would not create an inconsistency with policies concerning transit systems set forth in a General Plan or in the local plans. Therefore, this impact is considered ***less than significant*.**

BICYCLE AND PEDESTRIAN FACILITIES

Traffic generated by the Project would not change the traffic mix in the area and would be compatible with existing and planned roadway and highway facility design. The Project will also support the implementation of City of Lathrop's General Plan and CIP to serve the vehicle (cars and trucks), transit, bicycle, and pedestrian system. These improvement in the vicinity of the proposed Project would improve multi-modal safety in the City of Lathrop. The proposed Project does not consist of any improvements or physical changes to the freeway mainline, freeway interchange, or other State Highway System (SHS) facilities. A detailed review of the facility design of the safety improvement projects confirmed that the proposed Project would improve on the non-existent multi-modal facility by providing sidewalks along the Project frontage on Roth Road and Manthey Road.

The City of Lathrop Bicycle Transportation Plan establishes the City's goals and objectives for bicycle travel. The Bicycle Transportation Plan also establishes standards for bicycle facilities and

identifies planned bicycle network facilities to address the City's bicycle needs. The Circulation Element developed as part of the General Plan contains Policy CIR-2.1 and Implementation Actions CIR-2a and CIR-2g, which support bicycle and pedestrian routes and facilities and creating an active transportation plan supporting the development and funding of bicycle and pedestrian networks.

The City of Lathrop is currently (as of August 2023) preparing an Active Transportation Plan that will identify pedestrian, bicycle and transit improvements in the vicinity of the proposed Singh Petroleum Investments Project site. Based on the location of the future active transportation facilities, Mitigation Measure 3.13-1 is recommended. This mitigation requires coordination with the City to construct sidewalks along the Project frontage, among other requirements related to pedestrian facilities. Consequently, this impact would be reduced to a ***less-than-significant*** level.

MITIGATION MEASURE(S)

Mitigation Measure 3.13-1: *The Project applicant shall coordinate with the City to construct sidewalks along the Project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the City Engineer. The Project applicant shall work with the City to refine the design of the re-aligned Manthey Road at the Project driveway to provide the following:*

- *One southbound through travel lane;*
- *One 150-foot southbound left-turn lane:*
- *One northbound through travel lane'*
- *One northbound shared through / right-turn lane;*
- *One westbound left-turn lane;*
- *One westbound right-turn lane; and*
- *One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.*

This requirement shall be noted on the Project improvement plans.

Impact 3.13-2: Implementation of the proposed Project would not conflict with or be inconsistent with CEQA Guideline section 15064.3, subdivision (b). (Less than Significant)

As discussed earlier in this section, the proposed Project would result in a significant transportation impact if the proposed Project would result in a net increase in Baseline (existing) Lathrop city-wide VMT by employee or Cumulative Lathrop city-wide VMT by employee.

Table 3.13-1 presents the established city-wide VMT and the Project generated VMT under baseline and cumulative conditions. VMT generated by the Project is compared to the baseline

city-wide average VMT per employee. The proposed Project would result in a combination of net new, pass-by, and diverted vehicle trips and associated VMT per employee.

TABLE 3.13-1: VMT ANALYSIS – PROJECT-GENERATED VMT

SCENARIO	*VMT PER RETAIL EMPLOYEE*	*COMPARED TO BASELINE CITYWIDE AVERAGE WITHOUT PROJECT*
Existing (Baseline) City-wide Average	135.3	-
Singh Petroleum Investments Project – Existing (Baseline) Conditions Net New Trips – 20% - VMT of 135.3 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	27.8	- 79.5%
Cumulative Lathrop General Plan Update	211.5	-
Singh Petroleum Investments Project - Cumulative Lathrop General Plan Update Net New Trips – 20% - VMT of 195.2 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	43.1	- 79.6%

SOURCE: FEHR & PEERS, 2023.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed Project from either home or work and represent approximately 20% of the daily VMT. The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed Project and represent approximately 15% of the daily VMT. The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed Project and represent approximately 65% of the daily VMT.

As shown in Table 3.13-1, under Existing (Baseline) Conditions, based on the type of Project that includes a combination of net new, pass-by, and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

The City's Adopted (September 2022) General Plan Update includes a substantial increase in both employment and retail land uses, which would allow residents to travel shorter distances to access jobs and local services without the need to travel outside of the City of Lathrop. To complement this increase in employment, the City of Lathrop General Plan also includes a substantial increase in residential projects (single-family and multi-family dwelling units) that would complement the employment and retail land uses by supplying workers (employees) and patrons (shoppers) to businesses. The improved jobs-housing balance under the cumulative scenario is consistent with the City's vision for future development of providing local services for a growing population.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate

an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed Project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be ***less than significant***.

Impact 3.13-3: Implementation of the proposed Project would not 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 with Mitigation)

The following describes the results of potential safety impacts associated with transportation and circulation that could result from implementation of the proposed Project. The following describes the safety-related reviews, investigations, and analysis that was completed for Existing Plus Project and Cumulative Plus Project conditions.

PLANNED TRAFFIC SAFETY IMPROVEMENTS IN THE PROJECT AREA

The following documents and projects in the City of Lathrop, SJCOG, and Caltrans jurisdictions are reviewed for traffic safety improvements:

- City of Lathrop General Plan – Section 3.14, Circulation;
- City of Lathrop CIP; and
- SJCOG RTP/SCS.

The proposed Project includes an eight-island (16 position) fueling station, an 16,668 square foot retail / convenience store that includes a quick service restaurant (QSR) with a drive-thru lane, an eight-truck fuel island, and a 13,846 square foot truck service / repair facility. Traffic generated by the proposed Project would increase traffic volumes on local roadways, I-5 / Roth Road on-ramps, and I-5 / Roth Road off-ramps serving the Project study area. Existing and future land use in the vicinity of the Project area consists of a mix of warehousing, trucking, food, retail, and service uses. It should be noted that California legal and STAA trucks are prohibited from using Golden Valley Parkway, Spartan Road and the I-5 / Lathrop Road interchange

Traffic generated by the Project would include a mix of passenger cars and trucks that would use the fueling, convenience store and quick service restaurant land uses. The project would also attract commercial vehicles and trucks that would use the fueling, truck service / repair facility and quick service restaurant land uses.

Therefore, both the passenger and commercial vehicles that the proposed project would attract from I-5, Roth Road and Manthey Road would not change the traffic mix in the area and would be compatible with existing and planned facility design. The Project will also support the implementation of City of Lathrop's General Plan and CIP to serve the Vehicle (cars and trucks), Transit, Bicycle and Pedestrian System. These improvement in the vicinity of the proposed project

would improve multi-modal safety in the City of Lathrop. The proposed Project does not consist of any improvements or physical changes to the freeway mainline, freeway interchange, or other State Highway System (SHS) facilities. A detailed review of the facility design of the safety improvement projects listed above confirmed that the proposed Project would improve on the non-existent multi-modal facility by providing sidewalks along the project frontage on Roth Road and Manthey Road.

As noted previously, the City of Lathrop Bicycle Transportation Plan established the City's goals and objectives for bicycle travel. The Bicycle Transportation Plan establishes standards for bicycle facilities and identifies planned bicycle network facilities to address the City's bicycle needs. The Circulation Element developed as part of the proposed General Plan contains Policy CIR-2.1 and Implementation Actions CIR-2a and CIR-2g, which support bicycle and pedestrian routes and facilities and creating an active transportation plan supporting the development and funding of bicycle and pedestrian networks.

The City of Lathrop is currently (as of August 2023) preparing an Active Transportation Plan that will identify pedestrian, bicycle, and transit improvements in the vicinity of the proposed Project site. Based on the location of the future active transportation facilities, the following Condition of Approval (COA) is recommended:

> Traffic COA #3 – The developer shall coordinate with the City to construct sidewalks along the project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The developer shall work with the City to refine the design of the re-aligned Manthey Road at the project driveway to provide the following:
>
> - One southbound through travel lane;
> - One 150-foot southbound left-turn lane:
> - One northbound through travel lane'
> - One northbound shared through / right-turn lane;
> - One westbound left-turn lane;
> - One westbound right-turn lane; and
> - One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

This COA is included as Mitigation Measure 3.13-1 in Impact 3.13-1 previously.

FREEWAY OFF-RAMP QUEUEING ANALYSIS

As part of the Transportation Analysis Report (Fehr & Peers, 2023), intersection operations analyses were completed for the following freeway ramp terminal intersections:

1. Southbound Interstate 5 On/Off-Ramps / Roth Road; and
2. Northbound Interstate 5 On/Off-Ramps / Roth Road.

Results of the intersection operations analysis show that under Existing Plus Project Conditions, both side-street stop-controlled ramp intersections would continue to operate at acceptable LOS A/B conditions during the AM peak hour and acceptable LOS A/B/C conditions during the PM peak hour. With the improvement and signalization of the I-5 / Roth Road interchange, both ramp intersections would operate at acceptable LOS B/C during both AM and PM peak hours under Cumulative No Project and Cumulative Plus Project conditions.

A freeway off-ramp queueing analysis was completed for both ramp intersections during the AM and PM peak hour. The off-ramp queueing analysis was completed using the Synchro 11 software package, and the 95th percentile queue is reported for all freeway off-ramp movements.

Table 3.13-2 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Existing and Existing Plus Project conditions. Technical Calculations are included in Appendix A and Appendix B of Appendix G for Existing, and Existing Plus Project Conditions, respectively.

TABLE 3.13-2: FREEWAY OFF-RAMP QUEUEING ANALYSIS – EXISTING AND EXISTING PLUS PROJECT CONDITIONS 95TH PERCENTILE QUEUE

INTERSECTION	MOVE-MENT	STORAGE (FT)	EXISTING				EXISTING PLUS PROJECT			
			AM PEAK HOUR		PM PEAK HOUR		AM PEAK HOUR		PM PEAK HOUR	
			VOL.	QUEUE (FT)	VOL.	QUEUE (FT)	VOL.	QUEUE (FT)	VOL.	QUEUE (FT)
1. SB I-5 Ramps / Roth Road	SB LT	525	123	128	123	113	123	125	123	132
	SB LT/TH	1,520	123	98	123	89	123	101	123	117
	SB RT	25	40	**72**	37	**67**	74	**81**	82	**87**
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	8	28	35	84	21	66	82	100
	NB RT	625	172	101	181	173	172	90	181	131
	SB LT	525	123	128	123	113	123	125	123	132

*NOTES: **BOLD** INDICATED 95TH PERCENTILE QUEUE EXCEEDS STORAGE LENGTH*
SOURCE: FEHR & PEERS, 2023.

As shown in Table 3.13-2, with the addition of the Project traffic, all freeway off-ramp queues can be accommodated within the off-ramp storage, except for the Southbound I-5 off-ramp right-turn movement. The short 25-foot right-turn lane results in minor queuing under both Existing and Existing Plus Project Conditions. It should be noted that under no circumstances does the queue extend back toward the freeway off-ramp gore point on southbound I-5.

Based on the freeway off-ramp queueing analysis, the proposed Project would not result in freeway off- ramp queuing spilling back from the I-5 / Roth Road interchange under Existing Plus Project Conditions.

Table 3.13-3 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Cumulative and Cumulative Plus Project conditions. As shown, with the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Technical calculations are included in Appendix C and Appendix F of Appendix G for Cumulative No Project and Cumulative Plus Project Conditions, respectively.

TABLE 3.13-3: FREEWAY OFF-RAMP QUEUEING ANALYSIS – CUMULATIVE NO PROJECT AND CUMULATIVE PLUS PROJECT CONDITIONS 95TH PERCENTILE QUEUE

INTERSECTION	MOVEMENT	STORAGE (FT)	EXISTING				EXISTING PLUS PROJECT			
			AM PEAK HOUR		PM PEAK HOUR		AM PEAK HOUR		PM PEAK HOUR	
			VOL.	QUEUE (FT)	VOL.	QUEUE (FT)	VOL.	QUEUE (FT)	VOL.	QUEUE (FT)
1. SB I-5 Ramps / Roth Road	SB LT	525	123	128	123	113	123	125	123	132
	SB LT/TH	1,520	123	98	123	89	123	101	123	117
	SB RT	25	40	**72**	37	**67**	74	**81**	82	**87**
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	8	28	35	84	21	66	82	100
	NB RT	625	172	101	181	173	172	90	181	131

*NOTES: **BOLD** INDICATED 95TH PERCENTILE QUEUE EXCEEDS STORAGE LENGTH*
SOURCE: FEHR & PEERS, 2023.

Based on the freeway off-ramp queueing analysis, the proposed Project would not result in freeway off-ramp queuing spilling back from the I-5 / Roth Road interchange under Cumulative Plus Project Conditions. With the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Traffic generated by the proposed Project would remain compatible with the planned traffic safety improvements in the vicinity of the Project.

It should be noted that the design of the future I-5 / Roth Road interchange improvement has not been formalized; however, off-ramp queuing of the future interchange will be studied in detail as part of the Interstate 5 / Roth Road Interchange Improvement Project led by the City of Lathrop, in coordination with Caltrans. As such, the Project applicant should coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which will be used to program the project development support for State Transportation Improvement Program (STIP) and SJCOG RTP/SCS funding. Coordination with the City is required by Mitigation Measure 3.13-2.

It is noted that, at the November 13, 2023 City of Lathrop Council Meeting, approval of a professional consulting agreement was adopted to undertake and complete the project initiation document (also known as a PSR/PDS) for the Roth Road and I-5 Interchange (Capital Improvement Project PS 14-04). This represents the first project phase in developing interchange improvements and approval from the California Department of Transportation (Caltrans). The proposed schedule would complete the Final PSR/PDS document by November 2024.

INTERSECTION OPERATIONS

As part of the Transportation Analysis Report (Fehr & Peers, 2023), intersection operations analyses were completed. It is important to note that LOS is no longer a CEQA issue. However, based on results of the intersection operations analysis, review of the site plan, and adjacent land uses on Manthey Road, two mitigation measures are recommended. Mitigation Measure 3.13-3 requires the Project applicant to coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection. Mitigation Measure 3.13-4 requires the Project applicant to coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided.

SITE ACCESS EVALUATION

Under Existing / Near-term conditions (i.e., Phase I of the Project), access to the Project site would be provided via two full-access driveway on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal and STAA trucks. Two outbound (right-turn only) driveways would be provided on the proposed extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and STAA trucks.

Under Cumulative conditions (i.e., Phase II of the Project), access to the Project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on Roth Road, approximately 650 feet west of the southbound I-5 / Roth Road ramp terminal intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection.

Both Project driveways were analyzed under the Existing Plus Project and the Cumulative Plus Project conditions. According to the Transportation Analysis Report, both Project driveways would operate acceptably as side-street stop controlled intersections, and Project traffic would be able to enter and exit Project driveways without excessive delay.

The proposed site plan shows sidewalks being constructed along the project frontage on Roth Road and Manthey Road. It is important that the site design provides adequate throat depth for vehicular traffic. Without this, queueing may extend onto public streets, thereby adversely affecting traffic operations and creating potential safety hazards. All intersections and street sections would be reviewed by the City of Lathrop and designed to comply with typical City standards.

CONCLUSION

Implementation of the proposed Project would not result in a geometric design feature that is inconsistent with applicable design standards for the City of Lathrop. The Project would not result in a significant change to the vehicle mix or speed of traffic that is not compatible with the design of existing or planned facility design. With implementation of Mitigation Measures 3.13-1 through 3.13-4, this impact would be ***less than significant***.

MITIGATION MEASURE(S)

*Implement **Mitigation Measure 3.13-1.***

Mitigation Measure 3.13-2: *The Project applicant shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which shall be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.*

Mitigation Measure 3.13-3: *The Project applicant shall coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection. This requirement shall be noted on the Project improvement plans.*

Mitigation Measure 3.13-4: *The Project applicant shall coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided. This requirement shall be noted on the Project improvement plans.*

Impact 3.13-4: Implementation of the proposed Project would not result in inadequate emergency access. (Less than Significant)

Emergency response requires a balance of emergency response time and evacuation needs with other community concerns, such as urban design and traffic calming. A preliminary site plan review completed as part of the Transportation Analysis Report (Fehr & Peers, 2023) indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. However, all project access intersections, internal intersections, and internal roadways should be carefully designed to ensure they can accommodate emergency vehicles. All intersections and street sections would be reviewed by the City of Lathrop and designed to comply with typical City standards.

Overall, implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

This section describes the regulatory setting, impacts associated with wastewater services, water services, storm drainage, and solid waste disposal that are likely to result from Specific Plan implementation, and measures to reduce potential impacts to wastewater, water supplies, storm drainage, and solid waste facilities. This section is based in part on the following documents, reports and studies: *California's Groundwater,* CalRecycle *Solid Waste Information System,* CalRecycle *Jurisdiction Diversion/Disposal Rate Summary*, *City of Lathrop Municipal Service Review & Sphere of Influence Plan* (City of Lathrop, 2022), the *Tracy Subbasin Groundwater Sustainability Plan* (2021), *2020 Urban Water Management Plan* (2021), *Recycled Water System Master Plan* (2018), *Water System Master Plan* (2018), and *Wastewater System Master Plan* (2018).

No comments were received during the public review period for the Notice of Preparation regarding this topic.

3.14.1 WASTEWATER SERVICES

This section describes the City of Lathrop's wastewater infrastructure, wastewater flows, treatment plant permit requirements, and previous infrastructure planning. Wastewater service is provided by Lathrop via their network of collection infrastructure and the Manteca Water Quality Control Facility (MWQCF) and the Lathrop Consolidated Treatment Facility (LCTF).

ENVIRONMENTAL SETTING

KEY TERMS

Effluent: Effluent is an outflowing of water from a natural body of water, or from a man-made structure. Effluent in the man-made sense is generally considered to be water pollution, such as the outflow from a sewage treatment facility or the wastewater discharge from industrial facilities. In the context of wastewater treatment plants, effluent that has been treated is sometimes called secondary effluent or treated effluent.

NPDES: Water pollution degrades surface waters making them unsafe for drinking, fishing, swimming, and other activities. As authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. Point sources are discrete conveyances such as pipes or man-made ditches. Individual homes that are connected to a municipal system, use a septic system, or do not have a surface discharge do not need an NPDES permit; however, industrial, municipal, and other facilities must obtain permits if their discharges go directly to surface waters.

WWTP: Wastewater treatment plant. Treatment of wastewater may include the following processes: screening to remove large waste items; grit removal to allow sand, gravel, and sediment to settle out; primary sedimentation where sludge can settle out of the wastewater; secondary treatment to substantially degrade the biological content of the sewage; tertiary treatment to raise the quality of the effluent before it is discharged; and, discharge.

SEWER COLLECTION SYSTEM AND WASTEWATER TREATMENT

Wastewater System Overview

Wastewater from the City of Lathrop is currently treated at the MWQCF and the LCTF. The MWQCF treats most of the City's wastewater generated in areas east of Interstate Highway 5 (I-5), excluding the Crossroads development area. The LCTF treats the wastewater generated west of I-5 and in the Crossroads, Gateway and South Lathrop development areas. In 2016, the City generated a total average annual flow of 1.46 mgd with 0.92 mgd treated at the MWQCF and 0.54 mgd treated at the LCTF as documented in the City's IWRMP.

Wastewater Collection System

The City's wastewater collection system consists of approximately 72 miles of gravity mains ranging from 6 to 36 inches, 21 miles of force mains ranging from 4 to 18 inches, and 12 pump stations. Approximately 63% of gravity mains are polyvinyl chloride pipes, which is the City's current standard pipe material. The remaining 37% of pipes are vitrified clay pipes that are in Historic Lathrop and Crossroad Business Park areas. The City has a supervisory control and data acquisition (SCADA) system for control and monitoring of facilities. The City's wastewater collection system service area is generally contiguous with the city limits.

The City currently provides wastewater service to approximately 6,100 residential, commercial, industrial and institutional/governmental properties. However, there are areas within the city limits that are not served by the wastewater system. Many large facilities (e.g., Simplot, and former Carpenter Company facility) have historically self-managed their wastewater (West Yost Associates, 2018). Some of these areas have been planned to move to City service, as they are re-developed. Some residential homes and businesses in the central portion of Lathrop (e.g. Lathrop Industrial and South Lathrop) are served by a septic system.

LCTF and MWQCF have independent sewer sheds except at the 8-inch Mossdale Intertie. The Mossdale Intertie crosses beneath I-5 on River Islands Parkway and Louise Avenue. The Mossdale intertie is not routinely operated, but could potentially be utilized in the future to reroute a portion of flows from the Mossdale Pump Station to the MWQCF collection system.

Wastewater Treatment Facilities

Wastewater treatment facilities that serve the City include the MWQCF and the LCTF. These facilities are described below.

MANTECA WATER QUALITY CONTROL FACILITY

The City of Lathrop owns 14.7% of the MWQCF capacity by contract with the City of Manteca. The City does not participate in the operation of the facility, nor does it receive recycled water from the facility. As discussed in the City's *Municipal Service Review and Sphere of Influence Plan*, and as listed in Table 3.14-1, the City is allocated 1.45 mgd of the total 9.87 mgd facility capacity. The MWQCF is permitted for future expansions of up to 26.97 mgd, of which the City would be allocated a maximum of 14.7% capacity or 3.97 mgd. Treatment at the MWQCF consists of primary

sedimentation followed by roughing biotowers, conventional activated sludge, secondary clarification, tertiary filtration, and ultraviolet disinfection. Disinfected tertiary effluent is discharged to the San Joaquin River. A portion of the secondary effluent is not disinfected and is used to irrigate medians and agricultural fields.

TABLE 3.14-1: FUTURE SEWER CAPACITY, MGD

YEAR	2016	2020	2025	2030	2035	2040	BUILDOUT 2050
DEMAND							
MWQCF Projected ADWF	1.08	1.23	1.36	1.37	1.38	1.39	1.47
LCTF Projected ADWF	0.61	1.33	2.18	3.03	3.67	4.30	5.61
ADWF Total	**1.69**	**2.56**	**3.54**	**4.40**	**5.05**	**5.69**	**7.08**
TREATMENT CAPACITY							
MWQCF	1.45	1.45	1.45	1.45	1.45	1.45	1.45
MWCQF Improvements	0	0	0	0	0	0	0
LCTF	0.75	0.75	0.75	0.75	0.75	0.75	0.75
LCTF Phase I	0.25[(a)]	0.25	0.25	0.25	0.25	0.25	0.25
LCTF Phase II	Not Complete[(b)]	1.33(b)	1.0	1.0	1.0	1.0	1.0
LCTF Phase III		Not Complete[(C)]	2.0	2.0	2.0	2.0	2.0
LCTF Phase IV(d)					2.0	2.0	2.0
Treatment Total	**2.45**	**3.78**	**5.45**	**5.45**	**7.45**	**7.45**	**7.45**

SOURCE: CITY OF LATHROP GENERAL PLAN EIR, TABLE 3.15-6.

NOTES:

(A) COMPLETED IN 2017

(B) FACILITY IS SUBSTANTIALLY COMPLETED AS OF JUNE, 2018. FULL TREATMENT CAPACITY OF 1.5 MGD WILL BE AVAILABLE WHEN RIVER DISCHARGE BEGINS OPERATION IN LATE 2022, AS STORAGE AND DISPOSAL LIMITS WILL BE ELIMINATED, BUT WILL BE REDUCED TO 1.0 DUE TO HIGH BOD LOADING

(C) FACILITY IS UNDER DESIGN AND WILL BE AVAILABLE BY 2024

(D) LCTF PHASE IV IS EXPECTED TO BE AVAILABLE BY 2035

LATHROP CONSOLIDATED TREATMENT FACILITY

The LCTF is City-owned but operated by a private contractor, Veolia Water NA. The LCTF's treatment capacity was expanded to 2.5 mgd, with the completion of recent recycled water disposal facilities. However, capacity is currently limited to 1.55 mgd by off-site recycled water storage and disposal capacity. The LCTF is planned to be expanded to a future permitted capacity of 6.0 mgd.

Wastewater treatment and disposal at the LCTF is regulated under the California Regional Quality Control Board Central Valley Region Waste Discharge Requirements. LCTF applies the effluent to land rather than discharging to a water body, and is therefore not subject to the NPDES requirements. The wastewater treatment processes at the LCTF includes secondary treatment, tertiary infiltration, and disinfection prior to storage and disposal. The LCTF produces disinfected tertiary recycled water suitable for irrigation at parks, landscape strips, median islands, pond berms, and agricultural fields.

Wastewater treatment processes at the LCTF include secondary treatment, tertiary filtration, disinfection, and reuse for irrigation of agricultural and landscape use areas. The following major components make up the LCTF:

- Raw wastewater undergoes screening and grit removal prior to entering the influent pump station. A 0.95 MG steel tank provides diurnal flow equalization and short-term emergency storage. Wastewater in the tank is automatically returned to the influent pump station as treatment capacity becomes available.
- From the influent pump station, wastewater is distributed evenly to two Membrane Bioreactor treatment trains for a combined treatment capacity of 1.0 mgd. Each Membrane Bioreactor train includes an anoxic basin, recirculation mixers, an aeration basin, anoxic pumps, aeration and membrane blowers, membrane modules, a membrane tank, mixed liquor recycle pumps, and filtrate pumps.
- Disinfection is accomplished using sodium hypochlorite solution in a chlorine contact tank that provides more than 32 minutes of modal contact time. If disinfection fails, the effluent is rerouted back to the emergency storage basin and retreated.
- Tertiary treated effluent is discharged into Pond S5 for immediate storage, and is then transferred to off-site storage in Ponds S1, S2, S3, S6, S16, and the Crossroads Wastewater Treatment Effluent Storage Ponds A, B, and C.
- Waste activated sludge generated from LCTF is pumped to the solids handling facility located at the adjacent Crossroads Wastewater Treatment Facility. The solids handling facility includes a 0.19 MG aerobic sludge storage tank, two belt filter presses, and a concrete drying bed used for supplemental air drying of dewatered sludge when conditions permit. Air-dried sludge is temporarily stored on the drying bed until transportation to the City of Merced for land application.
- The City's existing recycled water system is governed by State Discharge Requirements outlined in Order R5-2018-0023 and supports the disposal of the effluent produced by the LCTF at eight agricultural land application areas (LAAs): A23, A28, A30, A31, A35, A35b, A35c, and A36. The distribution system consists of nine storage ponds; S1, S2, S3, S5, S6, S16, S-28, A, B, and C, their associated pump stations PMP1, PMP2, PMP3, PMP10, PMP12, and the Crossroads PMP. The City has approximately 30.3 miles of recycled water pipeline, as of 2018.

The RWQCB approved a San Joaquin River Discharge NPDES in 2020 and expires 31 March 2025. The City is constructing the required modifications to the LCTF to add required de-chlorination facilities and have awarded a contract to construct an outfall pipeline from the LCTF to the San Joaquin River. Developer Funding Agreements for the NPDES facilities will, upon operation of the NPDES facilities in late 2022, return storage ponds and spray fields to the developers who funded the NPDES project, except for Ponds S5, S6, A, B and C located at the LCTF plus Pond S16 on Stewart Tract which will all be retained as part of the permanent recycled water system.

Demands

The Central Valley Regional Water Quality Control Board and the IWRMP guide the long-term strategy for meeting future discharge and capacity requirements. From 2009 to 2016, total per capita average dry weather flow (ADWF) varied between 60 and 69 gallons of wastewater per capita per day. It is anticipated that the City's total ADWF in 2040 will be 5.69 mgd, and increase to 7.07 mgd at buildout in 2050. Of this total, the MWQCF is projected to treat ADWFs of 1.39 mgd from Historic Lathrop in 2040 and 1.47 mgd at buildout. Areas served by the LCTF have larger increases in planned development and are projected to treat ADWFs of 4.30 mgd in 2040 and 5.61 mgd at buildout.

Major Wastewater System Issues and Opportunities

The City's collection system is primarily assessed against the capacity criteria, including depth to diameter (d/D) ratio in gravity mains and maximum velocity in force mains. Approximately seven% of City's existing gravity mains will not meet the capacity criteria by 2040. Approximately 43% of the City's existing gravity mains do not meet the minimum velocity and slope criteria which does not trigger an improvement unless capacity criteria are not met beyond 2040 (West Yost Associates, 2018).

The LCTF with Phase II expansion is projected to have sufficient treatment capacity for existing and new development through 2026. The City's current capacity allocation at MWQCF is projected to be sufficient to meet projected flows from Historic Lathrop through 2040 with additional capacity needed by buildout. The gravity collection system in the Mossdale Landing will not be able to accommodate the anticipated peak wastewater flow from River Islands and Central Lathrop areas by 2025. Correspondingly, an upgrade to the Central Lathrop Pump Station will be required before 2025. The River Islands Permanent Pump Station and improvements to the Woodfield Lift Station became operational in 2022. Deficiencies at the Stonebridge Lift Station are noted in multiple buildout scenarios (West Yost Associates, 2018).

REGULATORY SETTING - WASTEWATER

Federal

CLEAN WATER ACT (CWA) / NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS

The CWA is the cornerstone of water quality protection in the United States. The statute employs a variety of regulatory and non-regulatory tools to sharply reduce direct pollutant discharges into waterways, finance municipal wastewater treatment facilities, and manage polluted runoff. These tools are employed to achieve the broader goal of restoring and maintaining the chemical, physical, and biological integrity of the nation's waters so that they can support "the protection and propagation of fish, shellfish, and wildlife and recreation in and on the water."

The CWA regulates discharges from "non-point source" and traditional "point source" facilities, such as municipal sewage plants and industrial facilities. Section 402 of the Act creates the NPDES

regulatory program which makes it illegal to discharge pollutants from a point source to the waters of the United States without a permit. Point sources must obtain a discharge permit from the proper authority (usually a state, sometimes EPA, a tribe, or a territory). NPDES permits cover industrial and municipal discharges, discharges from storm sewer systems in larger cities, stormwater associated with numerous kinds of industrial activity, runoff from construction sites disturbing more than one acre, mining operations, and animal feedlots and aquaculture facilities above certain thresholds.

Permit requirements for treatment are expressed as end-of-pipe conditions. This set of numbers reflects levels of three key parameters: (1) biochemical oxygen demand (BOD), (2) total suspended solids (TSS), and (3) pH acid/base balance. These levels can be achieved by well-operated sewage plants employing "secondary" treatment. Primary treatment involves screening and settling, while secondary treatment uses biological treatment in the form of "activated sludge."

All so-called "indirect" dischargers are not required to obtain NPDES permits. An indirect discharger is one that sends its wastewater into a city sewer system, so it eventually goes to a sewage treatment plant. Although not regulated under NPDES, "indirect" discharges are covered by another CWA program called pretreatment. "Indirect" dischargers send their wastewater into a city sewer system, which carries it to the municipal sewage treatment plant, through which it passes before entering surface water.

State

STATE WATER RESOURCES CONTROL BOARD/REGIONAL WATER QUALITY CONTROL BOARD

In California, all wastewater treatment and disposal systems fall under the overall regulatory authority of the State Water Resources Control Board (SWRCB) and the nine California Regional Water Quality Control Boards (RWQCBs), who are charged with the responsibility of protecting beneficial uses of State waters (ground and surface) from a variety of waste discharges, including wastewater from individual and municipal systems. The City of Lathrop falls within the jurisdiction of the Central Valley Regional Water Quality Control Board.

The RWQCB's regulatory role often involves the formation and implementation of basic water protection policies. These are reflected in the individual RWQCB's Basin Plan, generally in the form of guidelines, criteria and/or prohibitions related to the siting, design, construction, and maintenance of on-site sewage disposal systems. The RWQCB's role has historically been one of providing overall direction, organizational and technical assistance, and a communications link to the State legislature.

The RWQCBs may waive or delegate regulatory authority for on-site sewage disposal systems to counties, cities or special districts. Although not mandatory, it is commonly done and has proven to be administratively efficient. In some cases, this is accomplished through a Memorandum of Understanding (MOU), whereby the local agency commits to enforcing the Basin Plan requirements or other specified standards that may be more restrictive. The RWQCBs generally

elect to retain permitting authority over large and/or commercial or industrial on-site sewage disposal systems, depending on the volume and character of the wastewater.

PORTER-COLOGNE WATER QUALITY CONTROL ACT

The Porter-Cologne Water Quality Control Act is California's statutory authority for the protection of water quality. Under the Porter-Cologne Act, the State is required to adopt policies, plans, and objectives that will protect the State's waters for the use by and enjoyment of Californians. In California, the State Water Resources Control Board (SWRCB) has the authority and responsibility for establishing policy related to the State's water quality. Regional authority is delegated by the SWRCB to a Regional Water Quality Control Board (RWQCB). The Porter-Cologne Act authorizes the SWRCB and RWQCB to issue NPDES permits.

Under the Central Valley Regional Water Quality Control Board (CVRWQCB) NPDES permit system, all existing and future municipal and industrial discharges to surface water within the city would be subject to regulation. NPDES permits are required for operators of municipal separate storm sewer systems, construction projects, and industrial facilities. These permits contain limits on the amount of pollutants that can be contained in each facility's discharge

Local

CITY OF LATHROP SEWER SYSTEM MANAGEMENT PLAN

The City of Lathrop Sewer System Management Plan (SSMP) was prepared in compliance with the requirements contained in the SWRCB General Order No. 2006-003-DWQ. An SSMP is a document that describes the activities the City of Lathrop uses to manage its wastewater collection system effectively. Effective management of a wastewater collection system includes: (1) Maintaining or improving the condition of the collection system infrastructure in order to provide reliable service into the future; (2) Cost-effectively minimizing infiltration/inflow (I/I) and providing adequate sewer capacity to accommodate design storm flows; and (3) minimizing the number of sanitary sewer overflows that occur. The Lathrop SSMP was originally adopted in July 2009 and was updated in 2013, 2016, and 2018.

CITY OF LATHROP WATER SYSTEM MASTER PLAN

Updates to the City's Water, Wastewater and Recycled Water Master Plans are needed for compliance with legislation, to condition development and ensure public health and safety through effective planning and management of the City's water, wastewater and recycled water systems. Collectively, these documents are referred to as the IWRMP. The IWRMP is used to plan future capital improvement projects and serves as the basis for regulatory compliance documents. The IWRMP serves as the planning document used to provide water infrastructure needed for the City to develop to its General Plan, and for the environmental determination to meet California Environmental Quality Act Requirements.

CITY OF LATHROP MUNICIPAL CODE

The Lathrop Municipal Code contains ordinances regulating wastewater within the City of Lathrop. Chapter 3.20 provides for the City's Impact Fee Ordinance, which requires development impact fees to be charged to fund improvements to the City's infrastructure. Chapter 13.16 provides restrictions on the location of the City's sewer and water pipes. Chapter 13.26 provides the City's sewer and industrial wastewater regulations. Chapter 3.20 provides for the City's Impact Fee Ordinance, which requires development impact fees to be charged to fund improvements to the City's infrastructure.

CITY OF LATHROP GENERAL PLAN

Policies: Public Facilities and Services

- PFS-3.1 Wastewater Infrastructure. Ensure adequate wastewater collection and treatment infrastructure to serve existing and future development.
- PFS-3.5 Development Review. Review new development applications in order to ensure that new growth does not exceed the availability of adequate sewage treatment capacity or predate the presence of necessary infrastructure.
- PFS-3.6 Fair Share Cost. Ensure that all new developments provide for and fund their fair share of the costs for adequate sewer collection, treatment, and disposal, including line extensions, easements, and dedications.
- PFS-3.7 Reduced System Demand. Reduce wastewater system demand by encouraging water conserving designs and equipment, encouraging water-conserving devices, and designing wastewater systems to minimize inflow and infiltration.

UTILITY MASTER PLANS

The City of Lathrop maintains a variety of Master Plan documents that guide the design, development, and maintenance of the utilities within the city limits. These include: *2020 Urban Water Management Plan* (2021), *Recycled Water System Master Plan* (2018), *Water System Master Plan* (2018), *Storm Drain Master Plan* (1992), and *Wastewater System Master Plan* (2018).

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with Utilities if it will:

- Require or result in the relocation or construction of new or expanded wastewater facilities, the construction or relocation of which could cause significant environmental effects; and/or
- Result in a determination by the wastewater treatment provider which serves or may serve the project that it does not have adequate capacity to serve the projects projected demand in addition to the providers existing commitments.

IMPACTS AND MITIGATION MEASURES

Impact 3.14-1: The proposed Project would not require or result in the construction of new wastewater treatment or collection facilities or expansion of existing facilities, the construction of which could cause significant environmental effects. (Less than Significant)

The wastewater collection and conveyance system that will serve the proposed Project will consist of engineered infrastructure consistent with the City's existing infrastructure requirements. Sewer would be extended from the Project site from the intersection of Harlan Road and Roth Road east of I-5. The sewer lines would need to be extended west under the overpass along Roth Road to the Project site. The sanitary sewer line would be constructed within the existing ROW and no additional off-site ROW would be required for Project implementation.

New wastewater collection and conveyance infrastructure needed for the proposed Project will require trenching/excavation of earth, and placement of pipe within the trenches at specific locations, elevations, and gradients. Utility lines within the Project site and adjacent roadways would be extended throughout the Project site. The applicant will refine the wastewater collection/conveyance infrastructure design through the development of improvements plan which will undergo a review by the Public Works Department to ensure consistency with the City's engineering standards. This improvement plan process will include full engineering design (i.e. location, depth, slope, etc.) of all conveyance infrastructure as well as a review of new sewer pump stations and new force mains if needed. Ultimately, the sanitary sewer collection system will be an underground collection system installed as per the City of Lathrop standards and specifications.

As noted previously, the LCTF treats the wastewater generated west of I-5 and in the Crossroads, Gateway and South Lathrop development areas. In 2016, the City generated a total average annual flow of 1.46 mgd with 0.92 mgd treated at the MWQCF and 0.54 mgd treated at the LCTF as documented in the City's IWRMP. As discussed in Impact 3.14-2, the LCTF has the capacity to treat and dispose of the proposed 0.012 mgd increase in flows from the Project.

The installation of the wastewater improvements will be within the footprint of the Project site. The impacts associated with development of the Project site have been analyzed throughout this EIR. For some environmental topics it was determined that the Project would have a less than significant impact, while in other cases it was determined that development would have a significant and unavoidable impact (i.e., impacts on scenic vistas). However, because the wastewater infrastructure would be underground, the construction of these wastewater facilities would not result in a significant to scenic vistas. Therefore, installation of the wastewater distribution system infrastructure to serve the proposed Project would have a ***less than significant*** impact.

Impact 3.14-2: The proposed Project does not have the potential to result in a determination by the wastewater treatment and/or collection provider which serves the Project that the provider does not have adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments. (Less than Significant)

The proposed Project would require wastewater collection and treatment services. The provision of the wastewater collection services would be provided by the City of Lathrop wastewater system. As noted previously, the LCTF treats the wastewater generated west of I-5 and in the Crossroads, Gateway and South Lathrop development areas. The Project site is located west of I-5 and would, thus, be served by the LCTF.

PROJECT WASTEWATER GENERATION

According to the City's Wastewater System Management Plan, the estimated wastewater generation factor for commercial projects is 590 gallons per day per acre (City of Lathrop, 2018). Therefore, given that the proposed Project would develop approximately 19.63 acres, the estimated wastewater generation for the proposed Project would be approximately 11,581.7 gallons of wastewater per day (0.012 mgd).

The proposed Project would include a sewer line extension to the Project site. Sewer would be extended from the Project site from the intersection of Harlan Road and Roth Road east of I-5. The sewer lines would need to be extended west under the overpass along Roth Road to the Project site. The sanitary sewer line would be constructed within the existing ROW and no additional off-site ROW would be required for Project implementation.

The proposed Project would increase the amount of wastewater requiring treatment. The wastewater would be treated at the LCTF. Occupancy of the proposed Project would be prohibited without sewer allocation. As noted previously, the LCTF is City-owned but operated by a private contractor, Veolia Water NA. The LCTF's treatment capacity was expanded to 2.5 mgd, with the completion of recent recycled water disposal facilities. However, capacity is currently limited to 1.55 mgd by off-site recycled water storage and disposal capacity. The LCTF is planned to be expanded to a future permitted capacity of 6.0 mgd. The Central Valley Regional Water Quality Control Board and the IWRMP guide the long-term strategy for meeting future discharge and capacity requirements. It is anticipated that the City's total ADWF in 2040 will be 5.69 mgd, and increase to 7.07 mgd at buildout in 2050. Areas served by the LCTF have larger increases in planned development and are projected to treat ADWFs of 4.30 mgd in 2040 and 5.61 mgd at buildout.

The LCTF has the capacity to treat and dispose of the proposed 0.012 mgd increase in flows from the Project. Implementation of the proposed Project would have a ***less than significant*** impact relative to this topic.

3.14.2 WATER SUPPLIES

KEY TERMS

Acre feet: The volume of one acre of water to a depth of one foot. Each acre-foot of water is equal to approximately 325,851.4 gallons.

BGS: Below ground surface.

GPD: Gallons per day.

GPM: Gallons per minute.

Groundwater: Water that is underground and below the water table, as opposed to surface water, which flows across the ground surface. Water beneath the earth's surface fills the spaces in soil, gravel, or rock formations. Pockets of groundwater are often called "aquifers" and are the source of drinking water for a large percentage of the population in the United States. Groundwater is often extracted using wells which pump the water out of the ground and up to the surface. Groundwater is naturally replenished by surface water from precipitation, streams, and rivers when this recharge reaches the water table.

MG: Million gallons

MGD: Million gallons per day

Surface water: Water collected on the ground or from a stream, river, lake, wetland, or ocean. Surface water is replenished naturally through precipitation, but is lost naturally through evaporation and seepage into soil.

ENVIRONMENTAL SETTING

The City of Lathrop provides water service to 6,308 residential, commercial, agricultural and industrial service connections from surface and groundwater supplies. In addition, private wells are utilized by two major industrial facilities within the City. The City's surface water supply is delivered fully treated from the Stanislaus River by the South County Water Supply Project (SCWSP). The SCWSP is owned and operated by the South San Joaquin Irrigation District (SSJID).

In addition to surface water, five groundwater wells supply water to City residents, with a sixth that is currently not in operation. Groundwater from Wells 6, 7, 8, 9 and 10 are treated to state and federal drinking water standards at the Louise Avenue Water Treatment Facility (LAWTF).

The City's potable water system service area reflects the City limits with the inclusion of select industrial areas.

City of Lathrop Water Service

This section presents the City's water service area and current and projected population.

CITY OF LATHROP WATER SERVICE AREA

The City currently provides water service to approximately 7,934 residential, commercial, industrial institutional/governmental, irrigation, agricultural, and other/construction service connections, of which approximately 196 services are dedicated for irrigation uses. The City also provides service to an agriculture customer in the Lathrop Gateway area who will be replaced by development at Lathrop Gateway. All of the City's water services are metered.

City of Lathrop Water Demand

The following topics are covered in this section:

- Existing and projected water demand; and
- Dry year water demand.

EXISTING AND PROJECTED WATER DEMAND

The City's 2020 UWMP describes the projected City water demand through 2045. Over the period of 2016 through 2020, single-family residential water use comprised approximately half of all water use in the City (48%), while multi-family water use only comprised a small portion (2%). Industrial and irrigation sectors comprised 22% and 16% of the City's water demands, respectively. Water use in the commercial (4%) and institutional/governmental (2%), agricultural (3%), and other/construction (3%) sectors was relatively minor compared to total water use. The relative percentages of the total potable water demand represented by the residential, commercial, institutional/governmental, and irrigational sectors remained relatively constant over the period 2016 through 2020. The relative percentage of the industrial sector increased from 19% in 2016 to 26% in 2019 then decreased to 21% in 2020. The relative percentage of the other/construction sector increased from 1% in 2016 to 3% in 2018 and then was stable since then. The average non-revenue water over this period was approximately 4.5%.

The existing and projected 2045 water demand for the City in 5-year increments through 2045, based on the City's 2020 UWMP, is shown in Table 3.14-2.

TABLE 3.14-2: CITY OF LATHROP EXISTING AND PROJECTED TOTAL POTABLE AND NON-POTABLE WATER DEMAND

USE TYPE	*2025*	*2030*	*2035*	*2040*	*2045 (BUILDOUT)*
Single Family	3,807	4,810	5,498	6,186	7,987
Multi-Family	172	383	594	805	839
Commercial	593	734	859	1,048	1,152
Industrial	1,854	1,854	1,854	2,101	2,197
Institutional/Governmental	445	464	463	471	563
Landscape (Irrigation)	196	224	242	288	401
Losses[(A)]	615	688	743	817	934
TOTAL	**7,682**	**9,148**	**10,253**	**11,716**	**14,074**

NOTES:
(A) LOSSES REPRESENT ALL NON-REVENUE WATER, WHICH INCLUDES APPARENT LOSS, REAL LOSS, AND UNBILLED AUTHORIZED CONSUMPTION.
(B) LATHROP'S SINGLE AGRICULTURAL CUSTOMER WILL BE REPLACED BY DEVELOPMENT AT LATHROP GATEWAY AND THUS THE CITY WILL NOT HAVE ANY AGRICULTURAL CUSTOMER.
(C) DATA PRESENT HEREIN FOR 2045 REFLECTS CONDITIONS AT BUILDOUT FOR PLANNING PURPOSES. HOWEVER, THE CITY DOES NOT ANTICIPATE ALL BUILDOUT DEVELOPMENT TO OCCUR BEFORE 2045.
(D) VOLUMES ARE IN UNITS OF AF.
SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 4-5.

DRY YEAR WATER DEMAND

The City has a Water Shortage Contingency Plan (WSCP) included in Chapter 8 of the 2020 UWMP. The WSCP serves as a standalone document to be engaged in the case of a water shortage event, such as a drought or supply interruption, and defines specific policies and actions that will be implemented at various shortage level stages. The primary objective of the WSCP is to ensure that the City has in place the necessary resources and management responses needed to protect health and human safety, minimize economic disruption, and preserve environmental and community assets during water supply shortages and interruptions. Consistent with California Water Code (CWC) §10632, the WSCP includes six levels to address shortage conditions ranging from up to 10% to greater than 50% shortage, identifies a suite of demand mitigation measures for the City to implement at each level, and identifies procedures for the City to annually assess whether or not a water shortage is likely to occur in the coming year, among other things. A summary of the key elements of the WSCP including water shortage levels and demand-reduction actions is shown in Table 3.14-3.

TABLE 3.14-3: WATER SHORTAGE CONTINGENCY PLAN

SHORTAGE LEVEL AND	*% SHORTAGE RANGE*	*SHORTAGE RESPONSE ACTIONS*
1	Up to 10%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City may reduce water use by up to 10% due to water supply shortages or emergency. • Includes implementation of voluntary restrictions on end uses as well as agency actions.
2	Up to 20%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City must reduce water use by greater than 10% up to 20% due to water supply shortages or emergency. • Includes implementation of mandatory restrictions on end uses as well as agency actions.
3	Up to 30%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City must reduce water use by greater than 20% up to 30% due to water supply shortages or emergency. • Includes implementation of mandatory restrictions on end uses as well as agency actions.

SHORTAGE LEVEL AND	*% SHORTAGE RANGE*	*SHORTAGE RESPONSE ACTIONS*
4	Up to 40%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City must reduce water use by greater than 30% up to 40% due to water supply shortages or emergency. • Includes implementation of mandatory restrictions on end uses as well as agency actions.
5	Up to 50%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City must reduce water use by greater than 40% up to 50% due to water supply shortages or emergency. • Includes implementation of mandatory restrictions on end uses as well as agency actions.
6	> 50%	• Declaration by the City Council upon the determination that one or more of the trigger mechanisms exist per LMC Sections 13.08.140 and 13.08.150 and that the City must reduce water use by greater than 50% due to water supply shortages or emergency. • Includes implementation of mandatory restrictions on end uses as well as agency actions.

SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 8-1.

City of Lathrop Water Supply

The City of Lathrop obtains water from both imported surface water and local groundwater sources. The City receives water system supplies from the Stanislaus River water through the SCWSP that is operated by the SSJID. As noted previously, the City also owns and operates five active groundwater production wells. Due to the relatively high cost of SCWSP water, the City has historically relied upon its groundwater wells as the primary source of supply.

Over the period 2016 through 2020, the City's annual potable water production ranged from 3,646 acre-feet (AF) in 2016 to 5,485 AF in 2020. Surface water production (i.e., SCWSP purchases) has steadily increased from 300 AF in 2016 to 3,429 AF in 2020. Groundwater production has varied from as low as 1,560 AF in 2019 to as high as 3,346 AF in 2016. During this period, the City temporarily reduced its groundwater production as a percentage of total supplies from 92% in 2016 to 37% in 2020 due to groundwater quality concerns. The City has resumed most of its historic groundwater production in 2021.

The water supplies needed to serve the Project (together with existing water demands and planned future uses) are described in the City's 2020 UWMP. Therefore, the summary description of the City's water supplies, provided below, have been taken for the most part, from the City's 2020 UWMP, which was adopted in June 2021.

WATER SUPPLY SUMMARY

The City's water supplies are documented in the 2020 UWMP and the SSJID 2020 UWMP and are summarized below. However, reliability projections presented in the SSJID 2020 UWMP do not take into consideration the impacts of the Water Quality Control Plan for the San Francisco

Bay/Sacramento-San Joaquin Delta Estuary ("Bay-Delta Plan"). If implemented, the Bay-Delta Plan would have significant impacts on the minimum projected supply amounts available for SSJID to distribute. The Bay-Delta Plan remains uncertain due to pending litigation and based on these uncertainties SSJID has opted to make no near-term planning assumptions and should conditions change, a revision to the 2020 SSJID UWMP would impact this water supply analysis.

The City's total potable and raw water supply is shown in Table 3.15-4, below.

TABLE 3.15-4: SUMMARY OF POTABLE AND RAW WATER SUPPLY DURING HYDROLOGIC NORMAL, SINGLE-DRY AND MULTIPLE-DRY YEARS[a]

HYDROLOGIC CONDITION	*POTABLE AND RAW WATER SUPPLY AT BUILDOUT OF THE GENERAL PLAN AREA, AFY*
Normal Year	15,391
Single Dry Year	13,759
Multiple Dry Year 1	15,391
Multiple Dry Year 2	15,391
Multiple Dry Year 3	13,759
Multiple Dry Year 4	13,759
Multiple Dry Year 5	15,391

SOURCE: CITY OF LATHROP GENERAL PLAN UPDATE DRAFT EIR, TABLE 3.15-4.

PURCHASED OR IMPORTED WATER

The City purchases imported surface water from SSJID through the SCWSP, which supplies Stanislaus River water. Information related to the contractual entitlements and treatment processes for the surface water source is provided below.

South San Joaquin Irrigation District Water Supply. The SCWSP is a partnership between the City, SSJID, and the cities of Manteca, Tracy, and Escalon. The SCWSP water supply is based on SSJID's senior, pre-1914 appropriative water rights to the Stanislaus River, a tributary of the San Joaquin River, coupled with a 1988 agreement with the United States Bureau of Reclamation (USBR) to store water in the New Melones Reservoir.

The SCWSP was planned to be implemented in two phases. Phase 1 was completed in 2005 and consists of an intake facility at Woodward Reservoir, the Nick C. DeGroot Water Treatment Plant (DGWTP), and about 35 miles of pipe ending in the City of Tracy. The DGWTP is located near Woodward Reservoir in San Joaquin County, and the treatment process at the facility includes pre-chlorination, coagulation, dissolved air flotation pretreatment for removal of solids and dissolved material, chemical stabilization to minimize internal pipe corrosion, membrane filtration, and chlorination for disinfection. Phase II will increase the treatment capacity of the DGWTP. For purposes of this UWMP, implementation of Phase II is anticipated before 2040 consistent with information provided by SSJID. The total Phase I capacity of the SCWSP is approximately 31,500 acre-feet per year (AFY). Phase II is anticipated to increase the treatment capacity of the DGWTP to approximately 43,090 AFY.

Each of the four participating cities has an agreement with SSJID to receive treated water through December 2049. If SSJID and the cities do not agree to extend the contract past 2049, then the District agrees to transfer the project to a Joint Powers Authority composed of the four cities, which would then be responsible for operation and maintenance of the SCWSP.

South San Joaquin Irrigation District Water Right. The 1995 Water Supply Development Agreement between the City and SSJID provided the City with a Phase I allocation of 8,007 AFY and a total allocation of 11,791 AFY after completion of Phase II. In August 2013, the City sold 1,120 AFY of SCWSP water to the City of Tracy. Therefore, the City's remaining SSJID allocation is 6,887 AFY for Phase I and a total of 10,671 AFY after completion of Phase II.

GROUNDWATER

The City's purchase of SSJID water is supplemented by local groundwater supply wells. As discussed earlier, the City has temporarily reduced its groundwater production in recent years due to groundwater quality concerns. Approximately 37% of the City's water supply is from local groundwater supply wells in 2020. The following section includes information regarding the basin description, groundwater management, and the City's role as one of the six Groundwater Sustainability Agencies (GSAs) in the Groundwater Sustainability Plan (GSP) development process, followed by a discussion of groundwater production.

Basin Description. The City overlies the Tracy Subbasin (Department of Water Resources [DWR] 5-22.15) of the San Joaquin Valley Groundwater Basin (DWR 5-22). The Tracy Subbasin is not adjudicated, and it is not in a condition of critical overdraft.

The Tracy Subbasin is designated as a medium priority basin under DWR's 2019 Phase 2 Basin Prioritization. Under this prioritization process, basins are ranked on eight components, and if a basin is assigned between 15 and 21 total points, it is defined as "medium priority." The main factors driving the Tracy Subbasin's designation include population growth (5 out of 5 possible points), irrigated acres (5 out of 5 possible points), number of public supply wells (3 out of 5 possible points), number of total wells (3 out of 5 possible points), and documented impacts including water quality (3 out of 5 possible points).

As a DWR-designated medium priority basin, the Tracy Groundwater Subbasin is subject to the requirements of the Sustainable Groundwater Management Act (SGMA), including the requirement to be covered by one or more GSAs and to prepare and submit to DWR one or more GSPs by 31 January 2022.

Groundwater Supply Wells. The City currently operates the following municipal groundwater supply wells Wells 6, 7, 8, 9, and 10. Well 9 is currently offline and may be used in the future as an emergency well. Groundwater from Wells 6, 7, 8, 9 (when operating), and 10 is treated to remove arsenic at the LAWTF, which came online in 2012.

The City owns an additional well located on the southeast side of the water system, Well 21, which includes a treatment facility (Well 21 WTF) designed for disinfection and manganese treatment. The City last operated Well 21 between January 2012 and November 2013. Well 21 has remained

inactive since November 2013 due to sanding in the well and elevated levels of arsenic and uranium. The City does not currently plan to bring it back online due to poor water quality.

Information regarding the City's groundwater production wells are summarized in Table 3.14-5. The combined maximum pumping capacity of the City's wells, excluding Wells 9 and 21, is 5,850 gpm, which is lower than the treatment capacity of the LAWTF (6,250 gpm). The City's current annual groundwater supply capacity is equivalent to approximately 4,720 AFY.

TABLE 3.14-5: HISTORICAL AND PROJECTED POPULATION FOR CITY OF LATHROP

GROUNDWATER WELLS	*EXISTING MAXIMUM PUMPING CAPACITY*	
	MEASURED FLOW RATE (GPM)	*ESTIMATED ANNUAL YIELD [(A)] (AFY)*
Well 6	1,650	1,330
Well 7	1,400	1,130
Well 8	1,100	890
Well 10	1,700	1,370
Subtotal	**5,850**	**4,720**
LAWTF Treatment Capacity[(b)]	**6,250**	**5,040**
Well Capacity	**5,850**	**4,720**

NOTES: (A) ASSUMES WELLS ARE OPERATED AT 50% MAXIMUM CAPACITY ON AN ANNUAL BASIS.
(B) MAXIMUM CAPACITY OF LAWTF IS 6,250 GPM. ESTIMATED ANNUAL YIELD ASSUMES THAT ANNUAL YIELD OF WELLS 6, 7, 8, AND 10 IS NOT LIMITED BY LAWTF CAPACITY ON AN ANNUAL BASIS.
SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 6-1.

Historical Groundwater Use. Groundwater production over the period of 2016 through 2020 is presented in Table 3.14-6. During this period, groundwater production varied from 1,560 AF in 2019 to 3,346 AF in 2016, with an average production of 2,563 AFY. The City temporarily reduced groundwater production between 2018 and 2020 to prevent a contaminant plume originating from the former Occidental Chemical Corporation (OCC) from impacting the City's groundwater supply. The City shut off Wells 9 and 10 in August 2018 and Wells 6, 7, and 8 in January 2019. The City has exclusively served surface water from SSJID for the majority of 2019. Efforts to improve the OCC groundwater extraction and treatment system were completed in March 2020. The City then restarted Wells 6, 7, 8, and 10 and the LAWTF in late April 2020, while Well 9 has remained offline due to water quality issues.

TABLE 3.14-6: GROUNDWATER VOLUME PUMPED

GROUNDWATER TYPE	*BASIN NAME*	*2016*	*2017*	*2018*	*2019*	*2020*
Alluvial Basin	Tracy Subbasin of the San Joaquin Valley Groundwater Basin	3,346	3,247	2,605	1,560	2,055
	Total	**3,346**	**3,247**	**2,605**	**1,560**	**2,055**

NOTE: (A) VOLUMES ARE IN UNITS OF AF.
SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 6-2.

Projected Future Groundwater Use. The City plans to utilize its existing groundwater wells to supply water in the future. The City's current estimated annual groundwater yield is 4,720 AFY. The City currently has no plans to install additional groundwater wells or expand its groundwater production. However, the City is evaluation options to bring Well 9 back online and is considering

groundwater-related projects that could provide additional dry year supply reliability such as expansion of groundwater treatment, groundwater-surface water conjunctive use, and/or aquifer storage and recovery (ASR).

The City's ability to utilize its existing groundwater wells within the Tracy Subbasin is not likely be affected by SGMA20. It is anticipated that the future GSP will not require the City to limit groundwater production to maintain a sustainable groundwater budget. Based on the available information, it is anticipated that 100% the City's current estimated groundwater yield is available for the planning horizon of this Plan.

SURFACE WATER

The City purchases surface water from SSJID as its primary water supply. However, Reclamation District (RD) 2062 has constructed an irrigation system which can utilize a combination of non-potable supplies, such as recycled water, stormwater, and San Joaquin river water, to supply non-potable demands in the River Islands area. The system currently serves San Joaquin river water to public irrigation areas and will be able to convey the City's recycled water when it becomes available.

Water Supply Availability and Reliability

The City's water supply reliability as described in the City's 2020 UWMP is summarized below.

WATER SERVICE RELIABILITY – NORMAL YEAR

As shown in Table 3.14-7, the City is projected to have sufficient supplies to meet projected demands in normal years through buildout.

TABLE 3.14-7: NORMAL YEAR SUPPLY AND DEMAND COMPARISON (DWR TABLE 7-2)

	2025	*2030*	*2035*	*2040*	*2045 (BUILDOUT)*
Supply Totals	12,604	13,150	13,617	17,863	18,001
Demand Totals	8,679	10,691	12,263	14,188	16,684
Difference	*3,925*	*2,459*	*1,354*	*3,675*	*1,317*

NOTES: (A) VOLUMES ARE IN UNITS OF AF.
(B) DATA PRESENT HEREIN FOR 2045 REFLECTS CONDITIONS AT BUILDOUT FOR PLANNING PURPOSES. HOWEVER, THE CITY DOES NOT ANTICIPATE ALL BUILDOUT DEVELOPMENT TO OCCUR BEFORE 2045. ADDITIONAL WATER SUPPLIES MAY NEED TO BE DEVELOPED TO SUPPORT BUILDOUT DEVELOPMENT.
SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 7-7.

WATER SERVICE RELIABILITY – SINGLE DRY YEAR

As shown in Table 3.14-8, the City is generally projected to have adequate supplies to meet projected demands in single dry years through 2040. The projected single dry year supply shortfall at buildout is 314 AFY or 2%.

TABLE 3.14-8: SINGLE DRY YEAR SUPPLY AND DEMAND COMPARISON (DWR TABLE 7-3)

	2025	*2030*	*2035*	*2040*	*2045 (BUILDOUT)*
Supply Totals	11,495	12,591	13,606	15,609	16,370
Demand Totals	8,679	10,691	12,263	14,188	16,684
Difference	*2,816*	*1,900*	*1,344*	*1,421*	*(314)*

NOTES: (A) VOLUMES ARE IN UNITS OF AF.

(B) DATA PRESENT HEREIN FOR 2045 REFLECTS CONDITIONS AT BUILDOUT FOR PLANNING PURPOSES. HOWEVER, THE CITY DOES NOT ANTICIPATE ALL BUILDOUT DEVELOPMENT TO OCCUR BEFORE 2045. ADDITIONAL WATER SUPPLIES MAY NEED TO BE DEVELOPED TO SUPPORT BUILDOUT DEVELOPMENT.

SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 7-8.

WATER SERVICE RELIABILITY – FIVE CONSECUTIVE DRY YEARS

As shown in Table 3.14-9, the City is projected to have adequate supplies to meet projected demands in multiple dry years through 2040. Adequate supplies are anticipated to be available to meet project demands during the first, second and fifth year of drought at buildout. During the third and fourth year at buildout, the City's total water demand is estimated to exceed total supply by 314 AFY (2%).

TABLE 3.14-9: MULTIPLE DRY YEARS SUPPLY AND DEMAND COMPARISON (DWR TABLE 7-4)

		2025	*2030*	*2035*	*2040*	*2045 (BUILDOUT)*
First Year	Supply Totals	12,604	13,150	13,617	17,863	18,001
	Demand Totals	8,679	10,691	12,263	14,188	16,684
	Difference	*3,925*	*2,459*	*1,354*	*3,675*	*1,317*
Second Year	Supply Totals	12,604	13,150	13,617	17,863	18,001
	Demand Totals	8,679	10,691	12,263	14,188	16,684
	Difference	*3,925*	*2,459*	*1,354*	*3,675*	*1,317*
Third Year	Supply Totals	11,495	12,591	13,606	15,609	16,370
	Demand Totals	8,679	10,691	12,263	14,188	16,684
	Difference	*2,816*	*1,900*	*1,344*	*1,421*	*(314)*
Fourth Year	Supply Totals	11,495	12,591	13,606	15,609	16,370
	Demand Totals	8,679	10,691	12,263	14,188	16,684
	Difference	*2,816*	*1,900*	*1,344*	15,609	*(314)*
Fifth Year	Supply Totals	12,604	13,150	13,617	17,863	18,001
	Demand Totals	8,679	10,691	12,263	14,188	16,684
	Difference	*3,925*	*2,459*	*1,354*	*3,675*	*1,317*

NOTES: (A) VOLUMES ARE IN UNITS OF AF.

(B) DATA PRESENT HEREIN FOR 2045 REFLECTS CONDITIONS AT BUILDOUT FOR PLANNING PURPOSES. HOWEVER, THE CITY DOES NOT ANTICIPATE ALL BUILDOUT DEVELOPMENT TO OCCUR BEFORE 2045. ADDITIONAL WATER SUPPLIES MAY NEED TO BE DEVELOPED TO SUPPORT BUILDOUT DEVELOPMENT.

SOURCE: CITY OF LATHROP 2020 UWMP, TABLE 7-9.

REGULATORY SETTING – WATER SUPPLIES

State

CALIFORNIA DEPARTMENT OF HEALTH SERVICES

The Department of Health Services, Division of Drinking Water and Environmental Management, oversees the Drinking Water Program. The Drinking Water Program regulates public water systems and certifies drinking water treatment and distribution operators. It provides support for small water systems and for improving their technical, managerial, and financial capacity. It provides subsidized funding for water system improvements under the State Revolving Fund ("SRF") and Proposition 50 programs. The Drinking Water Program also oversees water recycling projects, permits water treatment devices, supports and promotes water system security, and oversees the Drinking Water Treatment and Research Fund for MTBE and other oxygenates.

CALIFORNIA CODE OF REGULATIONS

California Code of Regulations (CCR) Title 22, Chapter 15, Article 20 requires all public water systems to prepare a Consumer Confidence Report for distribution to its customers and to the Department of Health Services. The Consumer Confidence Report provides information regarding the quality of potable water provided by the water system. It includes information on the sources of the water, any detected contaminants in the water, the maximum contaminants levels set by regulation, violations and actions taken to correct them, and opportunities for public participation in decisions that may affect the quality of the water provided.

CONSUMER CONFIDENCE REPORT REQUIREMENTS

CCR Title 22, Chapter 15, Article 20 requires all public water systems to prepare a Consumer Confidence Report for distribution to its customers and to the Department of Health Services. The Consumer Confidence Report provides information regarding the quality of potable water provided by the water system. It includes information on the sources of the water, any detected contaminants in the water, the maximum contaminant levels set by regulation, violations and actions taken to correct them, and opportunities for public participation in decisions that may affect the quality of the water provided.

URBAN WATER MANAGEMENT PLANNING ACT

The Urban Water Management Planning Act has as its objectives the management of urban water demands and the efficient use of urban water. Under its provisions, every urban water supplier is required to prepare and adopt an urban water management plan. An "urban water supplier" is a public or private water supplier that provides water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. The plan must identify and quantify the existing and planned sources of water available to the supplier, quantify the projected water use for a period of 20 years, and describe the supplier's water demand management measures. The urban water supplier should make every effort to ensure the appropriate level of reliability in its water service sufficient to meet the needs of its

various categories of customers during normal, dry, and multiple dry years. The Department of Water Resources must receive a copy of an adopted urban water management plan.

SENATE BILL (SB) 610 AND ASSEMBLY BILL (AB) 901

The State Legislature passed SB 610 and AB 901 in 2001. Both measures modified the Urban Water Management Planning Act.

SB 610 requires additional information in an urban water management plan if groundwater is identified as a source of water available to an urban water supplier. It also requires that the plan include a description of all water supply projects and programs that may be undertaken to meet total projected water use. SB 610 requires a city or county that determines a project is subject to CEQA to identify any public water system that may supply water to the project and to request identified public water systems to prepare a specified water supply assessment. The assessment must include, among other information, an identification of existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed Project, and water received in prior years pursuant to these entitlements, rights, and contracts.

AB 901 requires an urban water management plan to include information, to the extent practicable, relating to the quality of existing sources of water available to an urban water supplier over given time periods. AB 901 also requires information on the manner in which water quality affects water management strategies and supply reliability. The bill requires a plan to describe plans to supplement a water source that may not be available at a consistent level of use, to the extent practicable. Additional findings and declarations relating to water quality are required.

SENATE BILL (SB) 221

SB 221 adds Government Code Section 66455.3, requiring that the local water agency be sent a copy of any proposed residential subdivision of more than 500 dwelling units within five days of the subdivision application being accepted as complete for processing by the city or county. It also adds Government Code Section 66473.7, establishing detailed requirements for establishing whether a "sufficient water supply" exists to support any proposed residential subdivisions of more than 500 dwellings, including any such subdivision involving a development agreement. When approving a qualifying subdivision tentative map, the city or county must include a condition requiring availability of a sufficient water supply. The applicable public water system must provide proof of availability. If there is no public water system, the city or county must undertake the analysis described in Government Code Section 66473.7. The analysis must include consideration of effects on other users of water and groundwater.

EXECUTIVE ORDER B-37-16

In May 2016, Governor Edmund G. Brown, Junior, signed Executive Order B-37-16 (Executive Order), Making Water Conservation a California Way of Life. The Executive Order directed DWR to work with the State Water Resources Control Board (State Water Board) to develop new water use targets as part of a permanent conservation framework for urban water agencies. The targets will build upon requirements established in the 2009 Water Conservation Act, but will strengthen

standards for indoor residential per capita water use, outdoor irrigation, commercial, industrial and institutional (CII) water use, and water lost through leaks. DWR will be establishing interim water use targets by 2018, with final standards to be published by 2021. Agencies will need to demonstrate progress towards achieving final compliance in 2025 (DWR, 2017).

Local

CITY OF LATHROP URBAN WATER MANAGEMENT PLAN

The City's 2020 Urban Water Management Plan (UWMP) is an individual UWMP that describes how the current and future water resources and demands within the City's service area will be managed to provide an adequate and reliable water supply. Additionally, the City's UWMP reflects the following significant revisions to the UWMP ACT that have been made since 2015. The UWMP has been prepared in general accordance with the format suggested in DWR's 2020 *Urban Water Management Plans Guidebook for Urban Water Suppliers*.

CITY OF LATHROP WATER SYSTEM MASTER PLAN

Updates to the City's Water, Wastewater and Recycled Water Master Plans are needed for compliance with legislation, to condition development and ensure public health and safety through effective planning and management of the City's water, wastewater and recycled water systems. Collectively, these documents are referred to as the Integrated Water Resources Master Plan (IWRMP). The IWRMP is used to plan future capital improvement projects and serves as the basis for regulatory compliance documents. The IWRMP serves as the planning document used to provide water infrastructure needed for the City to develop to its General Plan, and for the environmental determination to meet California Environmental Quality Act Requirements.

CITY OF LATHROP MUNICIPAL CODE

The Lathrop Municipal Code contains ordinances regulating potable and non-potable water within the City of Lathrop. Chapter 3.20 provides for the City's Impact Fee Ordinance, which requires development impact fees to be charged to fund improvements to the City's infrastructure. Chapter 12.22 provides for rules and restrictions on water play areas in city parks. Chapter 13.08 describes the City's water conservation and rationing provisions. Chapter 13.09 describes the City's water recycling policy. Chapter 13.12 describes the cross-connection controls of the City's water system. Chapter 13.16 provides restrictions on the location of the City's sewer and water pipes. Chapter 16.28 provides that developers of subdivisions shall provide adequate water supply and fire suppression improvements to the City's water system. Chapter 17.92 provides the City's Water Efficient Landscape Ordinance.

CITY OF LATHROP GENERAL PLAN

Policies: Public Facilities and Services

- PFS-2.1 Water System and Supply. Manage the water system to ensure that the water supply is adequate to meet the needs of existing and future development and is utilized in a sustainable manner.

- PFS-2.3 Coordination with the South San Joaquin Irrigation District. Coordinate with South San Joaquin Irrigation District (SSJID) when considering land use changes in order to assist the District in planning for adequate capacity to accommodate future growth.
- PFS-2.5 Development Review. Consider the effect of incremental increases in the demands on groundwater supply and water quality when reviewing development applications.
- PFS-2.6 Fair Share Cost. Ensure that all new development provides for and funds a fair share of the costs for adequate water source, distribution, including line extensions, easements, and water treatment plant expansions.

UTILITY MASTER PLANS

The City of Lathrop maintains a variety of Master Plan documents that guide the design, development, and maintenance of the utilities within the city limits. These include: *2020 Urban Water Management Plan* (2021), *Recycled Water System Master Plan* (2018), *Water System Master Plan* (2018), *Storm Drain Master Plan* (1992), and *Wastewater System Master Plan* (2018).

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project may have a significant impact on the environment associated with Utilities if it would:

- Require or result in the relocation or construction of new or expanded water facilities, the construction or relocation of which could cause significant environmental effects; and/or
- Have insufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years.

IMPACTS AND MITIGATION MEASURES

Impact 3.14-3: The proposed Project would not require or result in the relocation or construction of new or expanded water facilities, the construction or relocation of which could cause significant environmental effects. (Less than Significant)

As discussed in Chapter 2.0, Project Description, water services for the proposed Project would be extended to the Project site from existing services from the intersection of Harlan Road and Roth Road east of I-5. The water lines would need to be extended west under the overpass along Roth Road to the Project site.

New water conveyance infrastructure needed for the proposed Project will require trenching/excavation of earth, and placement of pipe within the trenches at specific locations, elevations, and gradients. Utility lines within the Project site and adjacent roadways would be extended throughout the Project site. The applicant will refine the water conveyance infrastructure design through the development of improvements plan which will undergo a review by the Public Works Department to ensure consistency with the City's engineering standards. This improvement plan process will include full engineering design (i.e. location, depth, slope, etc.) of all conveyance infrastructure as well as a review of new sewer pump stations and new force mains

if needed. Ultimately, the water conveyance system will be an underground collection system installed as per the City of Lathrop standards and specifications.

The proposed Project is on a site that would be annexed by the City of Lathrop. This area is currently in the City of Lathrop Sphere of Influence. The proposed Project would not require any additional water infrastructure other than the extension of water services to the Project site from existing infrastructure located on Roth Road, located directly south of the Project site.

The installation of the improvements will be within the footprint of the Project site. The impacts associated with development of the Project site have been analyzed throughout this EIR. For some environmental topics it was determined that the Project would have a less than significant impact, while in other cases it was determined that development would have a significant and unavoidable impact (i.e., impacts on scenic vistas). However, because the water lines would be underground, the construction of these water facilities would not result in a significant to scenic vistas. Therefore, installation of the water distribution system infrastructure to serve the proposed Project would have a ***less than significant*** impact.

Impact 3.14-4: The proposed Project would not result in insufficient water supplies available to serve the Project from existing entitlements and resources. (Less than Significant)

Commercial water use factors are based on the City's 2020 UWMP. According to the 2020 UWMP, commercial land uses demand 860 gallons per day per acre. Therefore, given that the proposed Project would develop approximately 19.63 acres, the estimated water demand for the proposed Project would be approximately 16,881.8 gallons of water per day (or 18.9 AFY).

Water demands for the proposed Project will be served using the City's existing portfolio of water supplies.

As shown in Table 3.14-9, the City is projected to have adequate supplies to meet projected demands in multiple dry years through 2040. Adequate supplies are anticipated to be available to meet Project demands during the first, second and fifth year of drought at buildout. During the third and fourth year at buildout, the City's total water demand is estimated to exceed total supply by 314 AFY (2%). Therefore, the proposed Project would result in a ***less than significant*** impact to water supplies.

3.14.3 STORMWATER

ENVIRONMENTAL SETTING

City of Lathrop Storm Drainage System

The City of Lathrop's storm drainage collection system uses pipelines, surface channels and, in some locations, detention basins that store peak flows to direct drainage to the San Joaquin River. The City's documented existing storm drain infrastructure includes approximately 916 inlets, 691 manholes, 21 pump stations, 4 outfalls to the San Joaquin River, 13 detention basins, and 36 miles of storm drain.

The City references three documents to address water quality: the General Permit for Waste Discharge Requirements for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems Order No. 2013 0001 DWQ, the Multi Agency Post Construction Stormwater Standards Manual, and the City of Lathrop Department of Public Works Design and Construction Standards. The Best Management Practices required by these documents are intended to assure that outfall discharges meet Clean Water Act National Pollutant Discharge Elimination System (NPDES) requirements. New developments within the City are also required to mitigate stormwater discharge rate increases caused by development, as noted in the City of Lathrop Design and Construction Standards.

Existing Stormwater Drainage

The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), the foundation of a previously demolished abandoned structure, and impervious area. Currently, runoff from within the Project site is either maintained onsite, or collected in a system of agricultural ditches and roadside ditches. Public storm drain facilities are currently installed along Manthey Road.

REGULATORY SETTING - STORMWATER DRAINAGE

Federal

CLEAN WATER ACT (CWA)

The Clean Water Act (CWA) regulates the water quality of all discharges into waters of the United States including wetlands, perennial and intermittent stream channels. Section 401, Title 33, Section 1341 of the CWA sets forth water quality certification requirements for "any applicant applying for a federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters." Section 404, Title 33, Section 1344 of the CWA in part authorizes the U.S. Army Corps of Engineers to:

- Set requirements and standards pertaining to such discharges: subparagraph (e); Issue permits "for the discharge of dredged or fill material into the navigable waters at specified disposal sites": subparagraph (a);
- Specify the disposal sites for such permits: subparagraph (b);
- Deny or restrict the use of specified disposal sites if "the discharge of such materials into such area will have an unacceptable adverse effect on municipal water supplies and fishery areas": subparagraph (c);
- Specify type of and conditions for non-prohibited discharges: subparagraph (f);
- Provide for individual State or interstate compact administration of general permit programs: subparagraphs (g), (h), and (j);
- Withdraw approval of such State or interstate permit programs: subparagraph (i);
- Ensure public availability of permits and permit applications: subparagraph (o);
- Exempt certain Federal or State projects from regulation under this Section: subparagraph (r); and,
- Determine conditions and penalties for violation of permit conditions or limitations: subparagraph (s).
- Section 401 certification is required prior to final issuance of Section 404 permits from the U.S. Army Corps of Engineers.

The California State Water Resources Control Board and RWQCBs enforce State of California statutes that are equivalent to or more stringent than the Federal statutes. RWQCBs are responsible for establishing water quality standards and objectives that protect the beneficial uses of various waters including the San Joaquin River, and other waters in the Lathrop Planning Area. In the Lathrop Planning Area the RWQCB is responsible for protecting surface and groundwater from both point and non-point sources of pollution. Water quality objectives for all of the water bodies within the Lathrop Planning Area were established by the RWQCB and are listed in its Basin Plan.

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

San Joaquin County is a participant in the National Flood Insurance Program (NFIP), a Federal program administered by FEMA. Participants in the NFIP must satisfy certain mandated floodplain management criteria. The National Flood Insurance Act of 1968 has adopted as a desired level of protection, an expectation that developments should be protected from floodwater damage of the Intermediate Regional Flood (IRF). The IRF is defined as a flood that has an average frequency of occurrence on the order of once in 100 years, although such a flood may occur in any given year. Communities are occasionally audited by the Department of Water Resources to insure the proper implementation of FEMA floodplain management regulations.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

National Pollutant Discharge Elimination System (NPDES) permits are required for discharges of pollutants to navigable waters of the United States, which includes any discharge to surface waters, including lakes, rivers, streams, bays, the ocean, dry stream beds, wetlands, and storm

sewers that are tributary to any surface water body. NPDES permits are issued under the Federal Clean Water Act, Title IV, Permits and Licenses, Section 402 (33 USC 466 et seq.)

The RWQCB issues these permits in lieu of direct issuance by the Environmental Protection Agency, subject to review and approval by the Environmental Protection Agency Regional Administrator. The terms of these NPDES permits implement pertinent provisions of the Federal Clean Water Act and the Act's implementing regulations, including pre-treatment, sludge management, effluent limitations for specific industries, and anti- degradation. In general, the discharge of pollutants is to be eliminated or reduced as much as practicable so as to achieve the Clean Water Act's goal of "fishable and swimmable" navigable (surface) waters. Technically, all NPDES permits issued by the RWQCB are also Waste Discharge Requirements issued under the authority of the CWA.

These NPDES permits regulate discharges from publicly owned treatment works, industrial discharges, stormwater runoff, dewatering operations, and groundwater cleanup discharges. NPDES permits are issued for five years or less, and are therefore to be updated regularly. The rapid and dramatic population and urban growth in the Central Valley Region has caused a significant increase in NPDES permit applications for new waste discharges. To expedite the permit issuance process, the SWRCB has adopted several general NPDES permits, each of which regulates numerous discharges of similar types of wastes. The SWRCB has issued general permits for stormwater runoff from industrial and construction sites statewide. Stormwater discharges from industrial and construction activities in the Central Valley Region can be covered under these general permits, which are administered jointly by the SWRCB and RWQCB.

A new Phase II Small Municipal Separate Storm Sewer (MS4) General Permit was adopted by the State Water Resources Control Board on April 17, 2015 became effective June 1, 2015. The Permit has numerous new components and the City is required to implement these components in stages over the five-year period of the Permit.

State

DEPARTMENT OF WATER RESOURCES

The Department of Water Resources' (DWR) major responsibilities include preparing and updating the California Water Plan to guide development and management of the State's water resources, planning, designing, constructing, operating, and maintaining the State Water Resources Development System, protecting and restoring the Sacramento-San Joaquin Delta, regulating dams, providing flood protection, assisting in emergency management to safeguard life and property, educating the public, and serving local water needs by providing technical assistance. In addition, the DWR cooperates with local agencies on water resources investigations; supports watershed and river restoration programs; encourages water conservation; explores conjunctive use of ground and surface water; facilitates voluntary water transfers; and, when needed, operates a State drought water bank.

CALIFORNIA WATER CODE

California's primary statute governing water quality and water pollution issues with respect to both surface waters and groundwater is the Porter-Cologne Water Quality Control Act of 1970 (Division 7 of the California Water Code) (Porter-Cologne Act). The Porter-Cologne Act grants the State Water Resource Control Board (SWRCB) and each of the RWQCBs power to protect water quality, and is the primary vehicle for implementation of California's responsibilities under the Federal Clean Water Act. The Porter-Cologne Act grants the SWRCB and the RWQCBs authority and responsibility to adopt plans and policies, to regulate discharges to surface and groundwater, to regulate waste disposal sites and to require cleanup of discharges of hazardous materials and other pollutants. The Porter-Cologne Act also establishes reporting requirements for unintended discharges of any hazardous substance, sewage, or oil or petroleum product.

Each RWQCB must formulate and adopt a water quality control plan (Basin Plan) for its region the regional plans are to conform to the policies set forth in the Porter-Cologne Act and established by the SWRCB in its State water policy. The Porter-Cologne Act also provides that a RWQCB may include within its regional plan water discharge prohibitions applicable to particular conditions, areas, or types of waste.

The Water Code Section 13260 requires all dischargers of waste that may affect water quality in waters of the state to prepare and provide a water quality discharge report to the RWQCB. Section 13260a-c is as follows:

(a) Each of the following persons shall file with the appropriate regional board a report of the discharge, containing the information that may be required by the regional board:

(1) A person discharging waste, or proposing to discharge waste, within any region that could affect the quality of the waters of the state, other than into a community sewer system.

(2) A person who is a citizen, domiciliary, or political agency or entity of this state discharging waste, or proposing to discharge waste, outside the boundaries of the state in a manner that could affect the quality of the waters of the state within any region.

(3) A person operating, or proposing to construct, an injection well.

(b) No report of waste discharge need be filed pursuant to subdivision (a) if the requirement is waived pursuant to Section 13269.

(c) Each person subject to subdivision (a) shall file with the appropriate regional board a report of waste discharge relative to any material change or proposed change in the character, location, or volume of the discharge.

WATER QUALITY CONTROL PLAN (BASIN PLAN) FOR THE CENTRAL VALLEY REGION

The Water Quality Control Plan for the Central Valley Region (Basin Plan) includes a summary of beneficial water uses, water quality objectives needed to protect the identified beneficial uses, and implementation measures. The Basin Plan establishes water quality standards for all the ground and surface waters of the region. The term "water quality standards," as used in the Federal Clean Water Act, includes both the beneficial uses of specific water bodies and the levels of quality that must be met and maintained to protect those uses. The Basin Plan includes an implementation plan describing the actions by the RWQCB and others that are necessary to achieve and maintain the water quality standards.

The RWQCB regulates waste discharges to minimize and control their effects on the quality of the region's ground and surface water. Permits are issued under a number of programs and authorities. The terms and conditions of these discharge permits are enforced through a variety of technical, administrative, and legal means. Water quality problems in the region are listed in the Basin Plan, along with the causes, where they are known. For water bodies with quality below the levels necessary to allow all the beneficial uses of the water to be met, plans for improving water quality are included. The Basin Plan reflects, incorporates, and implements applicable portions of a number of national and statewide water quality plans and policies, including the California Water Code and the Clean Water Act.

STATE WATER RESOURCE CONTROL BOARD (STATE WATER BOARD) STORM WATER STRATEGY

The Storm Water Strategy is founded on the results of the Storm Water Strategic Initiative, which served to direct the State Water Board's role in storm water resources management. The Storm Water Strategy developed guiding principles to serve as the foundation of the storm water program; identified issues that support or inhibit the program from aligning with the guiding principles; and proposed and prioritized projects that the Water Boards could implement to address those issues. The State Water Board staff created a strategy-based document called the Strategy to Optimize Management of Storm Water (STORMS). STORMS includes a program vision, missions, goals, objectives, projects, timelines, and consideration of the most effective integration of project outcomes into the Water Board's Storm Water Program.

200-YEAR FLOOD PROTECTION IN CENTRAL VALLEY

Both State policy and recently enacted State legislation (Senate Bill 5) call for 200-year (0.5% annual chance) flood protection to be the minimum level of protection for urban and urbanizing areas in the Central Valley. Senate Bill 5 (SB 5), signed into law on October 10, 2007, created the Central Valley Flood Protection Act of 2008. The following list identifies the requirements of the California Department of Water Resources (DWR) and the Central Valley Flood Protection Board (previously known as the State Reclamation Board) under SB 5:

- To prepare and adopt a Central Valley Flood Protection Plan by 2012.
- To establish 200-year protection as the minimum urban level of flood protection, effective with respect to specific development projects as of 2015 or 2025, as explained below.

  - The DWR is directed to produce preliminary (i.e. Best Available) maps for 100-year and 200-year floodplains protected by project levees, and to make them available to cities and counties in the Sacramento-San Joaquin Valley ("Central Valley"). (Water Code Section 9610[a]) These best available maps were made available on September 8, 2008, and can be found at the California Department of Water Resources <http://www.water.ca.gov/floodmgmt/lrafmo/fmb/fes/best_available_maps/>
- Sets deadlines for cities and counties in the Central Valley to amend their general plans and their zoning ordinances to conform to the Plan within 24 months and 36 months (i.e., approximately 2014 and 2015), respectively, of its adoption.
- Obligates Central Valley counties to develop flood emergency plans within 24 months of adoption of the Plan.
- By 2009 the Department of Water Resources ("Department") had to propose amendments to the California Building Standards Code ("Building Code") to protect areas with flood depths anticipated to exceed three feet for the 200-year flood event. SB 5 requires that the Building Code amendments are designed to reduce the risk of flood damage and increase safety.

No later than 2015, but potentially sooner depending on when the Central Valley Flood Protection Plan takes effect, SB 5 prohibits local governments from entering development agreements or approving entitlements or permits, including ministerial permits resulting in construction of a new residence in a flood hazard zone, which result in construction of a new residence in a flood zone unless one of three conditions are met:

- flood management facilities provide level of protection necessary to withstand 200-year flood event;
- the development agreement or other entitlements include conditions that provide protections necessary to withstand 200-year flood event; or
- the local flood management agency has made adequate progress on construction of a flood protection system that shall result in protections necessary to withstand 200-year flood event by 2025.

Adequate progress is defined as meeting all of the following:

1. The project scope, cost and schedule have been developed;
2. In any given year, at least 90% of the revenues scheduled for that year have been appropriated and expended consistent with the schedule;
3. Construction of critical features is progressing as indicated by the actual expenditure of budget funds;
4. The city or county has not been responsible for any significant delay in completion of the system; and
5. The above information has been provided to the DWR and the Central Valley Flood Protection Board and the local flood management agency shall annually report on the efforts to complete the project.

The Project area is within the 200-year flood plain.

Local

MULTI-AGENCY POST-CONSTRUCTION STANDARDS (LID)

The City of Lathrop, in collaboration with San Joaquin County, Tracy, Lodi, Manteca, and Patterson prepared a Multi-Agency Post-Construction Stormwater Standards Manual to provide consistent guidance for municipal workers, developers in implementing the requirements under the Statewide Small MS4 NPDES permit (2013-0001-DWQ). The guidance provides tools to address the following objectives:

- Establish the methodology to consider the effects of stormwater runoff from a new development or redevelopment project during the project planning phase;
- Minimize contiguously-connected impervious surfaces in areas of new development and redevelopment, and where feasible, to maximize on-site infiltration of stormwater runoff;
- Implement site design measures to preserve, create, or restore areas that provide important water quality benefits such as riparian corridors, wetlands, stream and buffers, and maintain, protect, and improve underlying soil quality;
- Provide source control measures to minimize the transport of and/or eliminate potential sources of pollution to stormwater runoff or run-on into the MS4 and receiving waters;
- Implement Low Impact Development (LID) control measures to reduce and/or eliminate the volume of stormwater runoff and pollutants leaving the project site;
- Control post-construction peak stormwater runoff discharge volumes and velocities (hydromodification) to mitigate impacts from downstream erosion and to protect downstream habitat; and
- Develop tools for effectively operating, managing, and maintaining stormwater control measures.

CITY OF LATHROP SEWER SYSTEM MANAGEMENT PLAN

The City of Lathrop Sewer System Management Plan (SSMP) (March 2018) was prepared in compliance with the State Water Resource Board (SWRCB) General Order No. 2006-0003-DWQ. This order mandated the development of an SSMP and the reporting of sewer system overflows using an electronic reporting system. The City of Lathrop SSMP was originally adopted in 2009 and was updated in 2013, 2016, and 2018. The SSMP describes the City's wastewater collection system consists of approximately 72 miles of gravity mains, 21 miles of force mains, as well as 12 lift and pump stations. The Plan describes that the City has a supervisory control and data acquisition (SCADA) system for control and monitoring of facilities.

CITY OF LATHROP SB 5 200-YEAR FLOOD PROTECTION GENERAL PLAN AMENDMENT

On March 25, 2015, the City of Lathrop drafted a General Plan Amendment to adhere to State of California Senate Bill 5, which were designed to set new flood protection standards for urban areas. SB 5 established the State standard for flood protection in urban areas as protection from the 200-year frequency flood. Under SB 5, urban and urbanizing areas must be provided with the

200-year flood protection no later than 2025. This General Plan Amendment amends the Safety Element of the City of Lathrop General Plan to comply with the provisions established under SB 5.

CITY OF LATHROP MUNICIPAL CODE

The Lathrop Municipal Code contains ordinances regulating stormwater/drainage and flood control within the City of Lathrop. Chapter 3.20 provides for the City's Impact Fee Ordinance, which requires development impact fees to be charged to fund improvements to the City's infrastructure. Chapter 3.23 provides the City's interim urban level of flood protection levee impact fee. Chapter 13.28 provides the City's Stormwater Management and Discharge Control Ordinance. Chapter 15.56 describes methods of reducing flood losses. Chapter 16.10 provides that subdivisions in flood hazard zones shall not be approved until applicable findings required in Chapter 17.17 of Lathrop Municipal Code are made. Chapter 17.17 describes the 200-year flood protection requirements for new development.

CITY OF LATHROP GENERAL PLAN

Policies: Public Facilities and Services

- PFS-4.5 Development Review. Continue to require all development projects to:
    - Demonstrate how storm water runoff will be detained or retained on-site and/or conveyed to the nearest drainage facility as part of the development review process and as required by the City's Small MS4 Phase 2 permit; and
    - Analyze their drainage and stormwater conveyance impacts and either demonstrate that the City's existing infrastructure can accommodate increased stormwater flows, or make the necessary improvements to mitigate all potential impacts.
- PFS-4.6 Stormwater Runoff. Stormwater runoff may be directed towards permeable surfaces to the greatest extent feasible to allow for more percolation of stormwater into the ground.
- PFS-4.7 Stormwater Capture. Encourage the use of professionally designed stormwater capture methods to aid in the reuse of rain water for non-potable uses in compliance with applicable State regulations.
- PFS-4.8 Stormwater Treatments. Promote Best Management Practices (BMPs) and Low Impact Development measures (LID) to treat stormwater before discharge from the site. The facilities shall be sized to meet regulatory requirements.
- PFS-4.9 Naturalized Stormwater Facilities. Maintain stormwater facilities in a naturalized condition where appropriate, incorporating recreational trails, parkway vegetation, and other amenities, minimizing grading, and ensuring that vegetation does not reduce channel capacity, and consistent with the Recreation and Resources Element.
- PFS-4.10 Dual-Use Detention Basins. Allow recreational uses in dual-use detention basins for parks, ball fields, and other uses where appropriate.

UTILITY MASTER PLANS

The City of Lathrop maintains a variety of Master Plan documents that guide the design, development, and maintenance of the utilities within the city limits. These include: *2020 Urban Water Management Plan* (2021), *Recycled Water System Master Plan* (2018), *Water System Master Plan* (2018), *Storm Drain Master Plan* (1992), and *Wastewater System Master Plan* (2018).

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project may have a significant impact on the environment associated with Utilities if it would:

- Require or result in the relocation or construction of new or expanded stormwater drainage facilities, the construction or relocation of which could cause significant environmental effects.

IMPACTS AND MITIGATION MEASURES

Impact 3.14-5: The proposed Project would not require or result in the relocation or construction of new or expanded stormwater drainage facilities, the construction or relocation of which could cause significant environmental effects. (Less than Significant)

As discussed in Chapter 2.0, Project Description, a 7.5-foot-deep private stormwater retention basin would be located in the southern portion of the Project site, as shown in Figure 2.0-7 in Chapter 2.0. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.

The development of the proposed Project would add new impervious surface to the Project site, including buildings and new parking lot. Stormwater generated on this new impervious surface would be routed through on-site pipes to the proposed drainage retention basin located in the southern portion of the Project site. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200 percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours.

The proposed storm drain system will include water quality features designed in conformance with the standards of the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.

The proposed Project is on a site that would be annexed by the City of Lathrop. This area is currently in the City of Lathrop Sphere of Influence. The proposed Project would not require any

additional stormwater or drainage infrastructure other than the extension of storm drain lines services to the Project site from existing infrastructure located on Manthey Road, located directly east of the Project site.

The installation of the improvements will be within the footprint of the Project site. The impacts associated with development of the Project site have been analyzed throughout this EIR. For some environmental topics it was determined that the Project would have a less than significant impact, while in other cases it was determined that development would have a significant and unavoidable impact (i.e., impacts on scenic vistas). However, because the majority of the stormwater improvements would be underground or at and below ground level (i.e., the retention basin), the construction of these stormwater drainage facilities would not result in a significant to scenic vistas. Therefore, installation of the stormwater distribution system infrastructure to serve the proposed Project would have a ***less than significant*** impact.

3.14.4 SOLID WASTE

Republic Services, a private garbage collection company, provides residential (single family and multi-family) and commercial garbage, recycling, and green waste collection services within the city limits. Solid waste from Lathrop is primarily landfilled at the Forward Sanitary Landfill.

KEY TERMS

Class I landfill: A landfill that accepts for disposal 20 tons or more of municipal solid waste daily (based on an annual average); or one that does not qualify as a Class II or Class III municipal solid waste landfill.

Class II landfill: A landfill that (1) accepts less than 20 tons daily of municipal solid waste (based on an annual average); (2) is located on a site where there is no evidence of groundwater pollution caused or contributed by the landfill; (3) is not connected by road to a Class I municipal solid waste landfill, or, if connected by road, is located more than 50 miles from a Class I municipal solid waste landfill; and (4) serves a community that experiences (for at least three months each year) an interruption in access to surface transportation, preventing access to a Class I landfill, or a community with no practicable waste management alternative.

Class III landfill: A landfill that is not connected by road to a Class I landfill or a landfill that is located at least 50 miles from a Class I landfill. Class III landfills can accept no more than an average of one ton daily of ash from incinerated municipal solid waste or less than five tons daily of municipal solid waste.

Transfer station: A facility for the temporary deposition of some wastes. Transfer stations are often used as places where local waste collection vehicles will deposit their waste cargo prior to loading into larger vehicles. These larger vehicles will transport the waste to the end point of disposal or treatment.

Waste Management Plan: A Waste Management Plan (WMP) is a completed WMP form, approved by the City for the purpose of compliance with Chapter 8.40 of the Municipal Code, submitted by the applicant for any covered project. Prior to project start, the WMP shall identify the types of construction and demolition (C&D) debris materials that will be generated for disposal and recycling. A completed WMP contains actual weight or volume of the material disposed recycled receipts.

WASTE COLLECTION SERVICES

The City of Lathrop has an exclusive contract with Republic Services to collect solid waste, recycling, and green waste from the residential and commercial sector. Republic Services is a private garbage collection company, provides residential (single family and multi-family) and commercial garbage, recycling, and green waste collection services within the city limits. Republic Services is the second largest provider of non-hazardous solid waste collection, transfer, disposal, recycling, and energy services in the United States, as measured by revenue. Republic Services operates in 41 states and Puerto Rico through 340 collection operations, 201 transfer stations, 193

active landfills, 67 recycling centers, 8 treatment, recovery and disposal facilities, and 12 salt water disposal wells. Republic also operated 69 landfill gas and renewable energy projects and had post-closure responsibility for 126 closed landfills. Republic Services serves 14 million customers in total (throughout the United States). Refuse, recycling, and green waste bins are picked up once per week in the City of Lathrop.

The City of Lathrop has a three (3) cart system for the collection of garbage, recycling and green waste. The three-cart system was established to enable residents to assist in reducing the amount of waste that is dumped in landfills. Garbage service is mandatory within the City of Lathrop and Republic Services provides residential garbage service to City of Lathrop residents. Recycling service is provided for newspapers, cardboard (including cereal boxes, soda boxes, etc.), glass bottles and jars, aluminum, tin, steel, plastic containers, and all junk mail and phone books.

WASTE DISPOSAL FACILITIES

The vast majority (77%) of landfill disposal from the City of Lathrop in 2016 (the latest year of information available) went to Forward Landfill. Other landfills that received relatively small amounts of waste from the City of Lathrop in 2016 included:

- Altamont Landfill & Resource Recovery;
- Azusa Land Reclamation Company Landfill;
- Fink Road Landfill;
- Foothill Sanitary Landfill;
- L and D Landfill;
- North County Landfill & Recycling Center;
- Potrero Hills Landfill;
- Recology Hay Road;
- Sacramento County Landfill (Kiefer).

Forward Landfill

The Forward Landfill is a solid waste disposal site, located at 9999 South Austin Road in Manteca. The landfill operates under Permit 39-AA-0015 (July 16, 2021). The Forward Landfill is owned and operated by Forward, Inc. (an Allied Waste North America subsidiary), and contains a total of 371.8 acres of disposal acreage. Forward Landfill has a remaining landfill capacity of over 22,100,000 tons, and has a current maximum permitted throughput of 8,668 tons per day. It has a total maximum capacity of 59,160,000 cubic yards. The landfill has a permitted traffic volume of 620 vehicles per day. The landfill has a cease operation date of 2039.

Other Landfills

The nine other landfills that received solid waste from the City of Lathrop in 2016 are shown in Table 3.14-10. Three landfills received Alternative Daily Cover (ADC) from Lathrop (Fink Road Landfill, L & D Landfill, and Vasco Road Sanitary Landfill). Alternative daily cover (ADC) means cover material other than earthen material placed on the surface of the active face of a municipal solid waste landfill at the end of each operating day to control vectors, fires, odors, blowing litter, and scavenging.

TABLE 3.14-10: LANDFILLS EXISTING DAILY CAPACITY AND ESTIMATES CLOSURE DATE

LANDFILL	*DAILY CAPACITY (TONS/DAY)*	*ANNUAL TONNAGE DISPOSED BY LATHROP (2016)*	*ESTIMATED CLOSURE DATE*
Altamont Landfill & Resource Recovery	11,150	227	1/01/2025
Azusa Land Reclamation Co. Landfill	8,000	1	1/01/2045
Fink Road Landfill	2,400	436	12/01/2023
Foothill Sanitary Landfill	1,500	6,456	12/31/2082
Forward Landfill, Inc.	8,668	26,228	01/01/2039
L and D Landfill	4,125	125	01/01/2023
North County Landfill & Recycling Center	825	9	12/31/2048
Potrero Hills Landfill	4,330	451	02/14/2048
Recology Hay Road	2,400	20	01/01/2077
Sacramento County Landfill (Kiefer)	No data	156	No data

SOURCE: CITY OF LATHROP GENERAL PLAN UPDATE DRAFT EIR, TABLE 3.15-7.

SOLID WASTE GENERATION RATES AND VOLUMES

The California Department of Resources Recycling and Recovery (CalRecycle) tracks and monitors solid waste generation rates on a per capita basis. Per capita solid waste generation rates and total annual solid waste disposal volumes for the City of Lathrop between 2014 and 2019 are shown in Table 3.14-11 below.

TABLE 3.14-11: SOLID WASTE GENERATION RATES IN THE CITY OF LATHROP

YEAR	*WASTE GENERATION RATES (POUNDS/PERSON/DAY)*		*TOTAL DISPOSAL TONNAGE (TONS/YEAR)*
	PER RESIDENT	*PER EMPLOYEE*	
2014	8.7	23.9	31,486
2015	8.0	19.8	29,691
2016	8.5	22.4	34,296
2017	6.9	18.4	29,378
2018	8.8	21.3	37,997
2019	5.9	13.7	26,778

SOURCE: CITY OF LATHROP GENERAL PLAN UPDATE DRAFT EIR, TABLE 3.15-8.

As shown in the above table, for the years 2014 through 2019 (the latest year of data available), the per capita waste generation rate in the City of Lathrop was at the lowest level in 2019; the per employee waste generation rate was at the lowest level in 2019; and the total annual disposal tonnage in Lathrop was at their lowest level (during this period) in 2019. The City of Lathrop complied with State requirements to reduce the volume of solid waste through recycling and reuse of solid waste. The City of Lathrop achieved the City's per capita disposal target rates for 2011-2019 of 20.4 and 41.0 pounds per person per day for residents and employees, respectively, as established by CalRecycle.

REGULATORY SETTING – SOLID WASTE

Federal

RESOURCE CONSERVATION AND RECOVERY ACT

The Resource Conservation and Recovery Act (RCRA) was enacted in 1976 to address the huge volumes of municipal and industrial solid waste generated nationwide. After several amendments, the current Act governs the management of solid and hazardous waste and underground storage tanks (USTs). RCRA was an amendment to the Solid Waste Disposal Act of 1965. RCRA has been amended several times, most significantly by the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA is a combination of the first solid waste statutes and all subsequent amendments. RCRA authorizes the Environmental Protection Agency (EPA) to regulate waste management activities. RCRA authorizes states to develop and enforce their own waste management programs, in lieu of the Federal program, if a state's waste management program is substantially equivalent to, consistent with, and no less stringent than the Federal program.

State

CALIFORNIA INTEGRATED WASTE MANAGEMENT ACT (AB 939 AND SB 1322)

The California Integrated Waste Management Act of 1989 (AB 939 and SB 1322) requires every city and county in the state to prepare a Source Reduction and Recycling Element to its Solid Waste Management Plan that identifies how each jurisdiction will meet the mandatory state waste diversion goals of 25% by 1995 and 50% by 2000. The purpose of AB 939 and SB 1322 is to "reduce, recycle, and re-use solid waste generated in the state to the maximum extent feasible." The term "integrated waste management" refers to the use of a variety of waste management practices to safely and effectively handle the municipal solid waste stream with the least adverse impact on human health and the environment. The Act has established a waste management hierarchy, as follows: Source Reduction; Recycling; Composting; Transformation; and Disposal.

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD MODEL ORDINANCE

Subsequent to the Integrated Waste Management Act, additional legislation was passed to assist local jurisdictions in accomplishing the goals of AB 939. The California Solid Waste Re-use and Recycling Access Act of 1991 (§42900-42911 of the Public Resources Code) directs the California Integrated Waste Management Board (CIWMB) to draft a "model ordinance" relating to adequate areas for collecting and loading recyclable materials in development projects. The model ordinance requires that any new development project, for which an application is submitted on or after September 1, 1994, include "adequate, accessible, and convenient areas for collecting and loading recyclable materials." For subdivisions of single family detached homes, recycling areas are required to serve only the needs of the homes within that subdivision.

CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)

CALGreen requires the diversion of at least 50% of the construction waste generated during most new construction projects (CALGreen Sections 4.408 and 5.408) and some additions and alterations to nonresidential building projects.

CALIFORNIA MANDATORY COMMERCIAL RECYCLING LAW (AB 341)

Assembly Bill (AB) 341 directed CalRecycle to develop and adopt regulations for mandatory commercial recycling. CalRecycle initiated formal rulemaking with a 45-day comment period beginning Oct. 28, 2011. The final regulation was approved by the Office of Administrative Law on May 7, 2012. The purpose of AB 341 is to reduce GHG emissions by diverting commercial solid waste to recycling efforts and to expand the opportunity for additional recycling services and recycling manufacturing facilities in California.

Beginning on July 1, 2012, businesses have been required to recycle, and each jurisdiction has implemented programs that include education, outreach, and monitoring. Jurisdictions were required to start reporting on their 2012 Electronic Annual Report (due August 1, 2013) on their initial education, outreach, and monitoring efforts, and, if applicable, on any enforcement activities or exemptions implemented by the jurisdiction.

In addition to Mandatory Commercial Recycling, AB 341 sets a statewide goal for 75% disposal reduction by the year 2020. This is not written as a 75% diversion mandate for each jurisdiction. The 50% disposal reduction mandate still stands for cities, counties, and State agencies (including community colleges) under AB 939. CalRecycle continues to evaluate program implementation as it has in the past through the Annual Report review process for entities subject to either AB 939.

ASSEMBLY BILL 1826 MANDATORY COMMERCIAL ORGANICS RECYCLING

In October 2014 Governor Brown signed AB 1826, requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste they generate per week. This law also requires that on and after January 1, 2016, local jurisdictions across the state implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units (please note, however, that multi-family dwellings are not required to have a food waste diversion program). Organic waste (also referred to as organics) means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste. This law phases in the mandatory recycling of commercial organics over time, while also offering an exemption process for rural counties. In particular, the minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

Starting on January 1, 2019, businesses that generate 4 cubic yards or more of commercial solid waste per week shall arrange for organic waste recycling services. By Summer/Fall 2021, if CalRecycle determines that the statewide disposal of organic waste in 2020 has not been reduced by 50% of the level of disposal during 2014, the organic recycling requirements on businesses will

expand to cover businesses that generate 2 cubic yards or more of commercial solid waste per week. Additionally, certain exemptions may no longer be available if this target is not met.

SB 1374 (CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERSION)

Senate Bill 1374 (SB 1374), Construction and Demolition Waste Materials Diversion Requirements, requires that jurisdictions summarize their progress realized in diverting construction and demolition waste from the waste stream in their annual AB 939 reports. SB 1374 required the CIWMB to adopt a model construction and demolition ordinance for voluntary implementation by local jurisdictions.

AB 2176 (MONTANEZ, CHAPTER 879, STATUES OF 2004)

This law requires the largest venue facilities and events (as defined) in each city and county to plan and implement solid waste diversion programs, and annually report the progress of those upon the request of their local government. In turn, local jurisdictions must report to the CIWMB waste diversion information for the top 10% of venues and events by waste generation.

A large event is defined as:

1. Serves an average of more than 2,000 individuals per day of operation (both people attending the event and those working at it—including volunteers—are included in this number); and
2. Charges an admission price or is run by a local agency.

The bill specifically includes public, nonprofit, or privately owned parks, parking lots, golf courses, street systems, or other open space when being used for an event, including, but not limited to, a sporting event or a flea market in addition to events that meet both of the above.

A large venue is defined as:

- A permanent facility that annually seats or serves an average of more than 2,000 individuals within the grounds of the facility per day of operation (both people attending the event and those working at it—including volunteers too—are included in this number).

Venues include, but are not limited to airports, amphitheaters, amusement parks, aquariums, arenas, conference or civic centers, fairgrounds, museums, halls, horse tracks, performing arts centers, racetracks, stadiums, theaters, zoos, and other public attraction facilities.

SENATE BILL 1383 SHORT-LIVED CLIMATE POLLUTANTS: ORGANIC WASTE METHANE EMISSIONS REDUCTIONS

In September 2016, Governor Brown signed SB 1383, establishing methane emissions reduction targets in a statewide effort to reduce emissions of short-lived climate pollutants (SLCP) in various sectors of California's economy. The bill codifies the California Air Resources Board's Short-Lived Climate Pollutant Reduction Strategy, established pursuant to SB 605, in order to achieve reductions in the statewide emissions of short-lived climate pollutants. Actions to reduce short-

lived climate pollutants are essential to address the many impacts of climate change on human health, especially in California's most at-risk communities, and on the environment.

As it pertains to solid waste, SB 1383 establishes targets to achieve a 50% reduction in the level of the statewide disposal of organic waste from the 2014 level by 2020 and a 75% reduction by 2025. The law grants CalRecycle the regulatory authority required to achieve the organic waste disposal reduction targets and establishes an additional target that not less than 20% of currently disposed edible food is recovered for human consumption by 2025.

Local

LATHROP MUNICIPAL CODE, CHAPTER 8.16: GARBAGE COLLECTION AND DISPOSAL

Section 8.16 of the Lathrop Municipal Code provides rules and regulations regarding garbage collection and disposal. It includes a list of hazardous materials (8.16.050), prohibitions on the burning and burial of solid waste (8.16.060), rights of the City related to solid waste collection and transportation (8.16.090), a list of requirements for the contractor for solid waste collection and transportation (8.16.100), restrictions on solid waste collection and transportation (8.16.110), a description of billing and collection fees (8.16.160), the garbage collection rate schedule (8.16.170), permit requirements (8.16.190), and a description of fees and other requirements.

CITY OF LATHROP GENERAL PLAN

Policies: Public Facilities and Services

- PFS-9.1 Refuse Collection. Continue to require mandatory refuse collection throughout the city.
- PFS-9.2 Source Reduction and Recycling Program. Implement and enforce the provisions of the City's Source Reduction and Recycling Program.
- PFS-9.3 Compliance with State Legislation. Continue to comply with all State regulations regarding waste diversion, source reduction, recycling, and composting.
- PFS-9.5 Waste Service Performance and Collection Facilities. Support efforts of the solid waste service provider to maintain adequate residential, commercial, and industrial solid waste and mixed recycling collection service levels and solid waste facilities in accordance with state law, and periodically review waste collection performance to verify adequacy of service.
- PFS-9.9 Hazardous Waste. Promote the proper disposal of hazardous waste—including paint, tires, medications, medical sharps, infectious waste, asbestos waste, construction waste, and electronic waste; encourage materials to be recycled or disposed of in a manner that is safe for the environment, residents, and visitors to the city consistent with the Public Safety Element.

THRESHOLDS OF SIGNIFICANCE

Consistent with Appendix G of the CEQA Guidelines, the proposed Project will have a significant impact on the environment associated with Utilities if it will:

- 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/or
- Comply with federal, state, and local management and reduction statutes and regulations related to solid waste.

IMPACTS AND MITIGATION MEASURES

Impact 3.14-6: The landfills that would serve the proposed Project have sufficient permitted capacity to accommodate the Project's solid waste disposal needs, and the proposed Project will comply with federal, State, and local statutes and regulations related to solid waste. (Less than Significant)

As previously described, permitted maximum disposal at the Forward Landfill is 8,668 tons per day. According to the City of Lathrop General Plan EIR, the Forward Landfill has a cease operation date of 2039 and has sufficient capacity to serve the City of Lathrop. Forward Landfill has a remaining landfill capacity of over 22,100,000 tons, and has a current maximum permitted throughput of 8,668 tons per day. The Forward Landfill has a total maximum capacity of 59,160,000 cubic yards. The landfill has a permitted traffic volume of 620 vehicles per day.

According to the City of Lathrop General Plan EIR, if the Forward Landfill were to close in 2039, the City can potentially utilize other landfills such as the Foothill Landfill and the North County Landfill, as locations for solid waste disposal. The permitted maximum disposal at the Foothill Landfill is 1,500 tons per day and the North County Landfill is 825 tons per day. The remaining capacity of these landfills include 125 million cubic yards of solid waste at the Foothill Landfill, with an estimated cease operation date of 2054, and 35.4 million cubic yards of solid waste at the North County Landfill, which has an estimated cease operation date of 2035.

Solid waste generated by the proposed Project was estimated based on CalRecycle generation rates.[1] The commercial uses are estimated to generate approximately 5 pounds per day per 1,000 square feet. It is estimated that the 30,514 square feet of commercial space would generate 152.6 pounds per day of solid waste. The total annual solid waste generated by the proposed project is estimated to be 5,699 pounds per year (2.8 tons per day).

The addition of the volume of solid waste associated with the proposed Project, approximately 6.2 tons per day, would not exceed the Forward Landfill's remaining capacity. Existing landfills have permitted capacity to handle this additional waste. This is a ***less than significant*** impact.

[1] Available at: https://www2.calrecycle.ca.gov/wastecharacterization/general/rates

The California Environmental Quality Act (CEQA) requires an Environmental Impact Report (EIR) to evaluate a project's effects in relationship to broader changes occurring, or that are reasonably foreseeable to occur, in the surrounding environment. Accordingly, this chapter presents a discussion of CEQA-mandated analysis for cumulative impacts, significant irreversible effects, significant and unavoidable impacts, and growth-inducing effects associated with the proposed Project.

4.1 CUMULATIVE SETTING AND IMPACT ANALYSIS

INTRODUCTION

CEQA requires that an EIR contain an assessment of the cumulative impacts that could be associated with the proposed Project. According to CEQA Guidelines Section 15130(a), "an EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable." "Cumulatively considerable" is defined in CEQA Guidelines section 15065(a)(3) as meaning that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects" (as described in Section 15130). As defined in CEQA Guidelines Section 15355, a cumulative impact consists of an impact that is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts. A cumulative impact occurs from:

> *…the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time.*

In addition, Section 15130(b) identifies that the following three elements are necessary for an adequate cumulative analysis:

1) Either:

   (A) A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency; or,

   (B) A summary of projections contained in an adopted local, regional or statewide plan, or related planning document, that describes or evaluates conditions contributing to the cumulative effect. Such plans may include: a general plan, regional transportation plan, or plans for the reduction of greenhouse gas emissions. A summary of projections may also be contained in an adopted or certified prior environmental document for such a plan. Such projections may be supplemented with additional information such as a regional modeling program. Any such document shall be referenced and made available to the public at a location specified by the lead agency.

2) A summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available; and

3) A reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable, feasible options for mitigating or avoiding the project's contribution to any significant cumulative effects.

Where a lead agency is examining a project with an incremental effect that is not "cumulatively considerable," a lead agency need not consider that effect significant, but shall briefly describe its basis for concluding that the incremental effect is not cumulatively considerable.

CUMULATIVE SETTING

The cumulative setting uses growth projections listed in the City of Lathrop General Plan Draft EIR and Department of Finance statistics. Table 4.0-1 shows growth projections for the City, County, and State.

TABLE 4.0-1: GROWTH PROJECTIONS

CALENDAR YEAR	*ESTIMATED POPULATION (LATHROP)*	*ESTIMATED POPULATION (SAN JOAQUIN COUNTY)*	*ESTIMATED POPULATION (CALIFORNIA)*
2025	35,475	829,426	39,024,054
2030	42,109	883,484	39,430,871
2040	58,969	1,020,862	40,106,449
2045	67,976	1,094,253	40,152,224

SOURCE: CITY OF LATHROP GENERAL PLAN EIR (2022); DEPARTMENT OF FINANCE REPORT P-1A (2023).

In addition to those cumulative growth projections listed above, this EIR uses a list of probable future projects to determine cumulative growth in the area. Development projects were identified by City of Lathrop staff. The approved and/or pending projects in the City are summarized in Table 4.0-2.

TABLE 4.0-2: CITY OF LATHROP EXISTING AND PROJECTED DEVELOPMENT (MAY 11, 2023)

PROJECT NAME	*ADDRESS*	*APN*	*SF UNITS*	*MF UNITS*	*COMM. SF*	*IND. SF*
APPROVED AND CONSTRUCTED DEVELOPMENT PROJECTS						
Substantial Conformance - Starbucks - Approved 2021	16538 Golden Valley Pkwy.	191-760-14	-	-	2,400	-
Substantial Conformance - Chipotle - Approved 2020	16542 Golden Valley Pkwy.	191-760-15	-	-	2,300	-
Substantial Conformance - Sprouts - Approved 2021	N/A	191-760-22	-	-	23,000	-
Mossdale Apartments (Under Construction)	18007, 18149, and 18250 S. Manthey Rd.	241-020-65, -66, and -61	-	204	-	-
Phelan Lathrop Gateway - Phase I	3458 W. Yosemite Ave. and 18755 Business Park Ct.	241-820-03, and -04	-	-	-	990,350

PROJECT NAME	*ADDRESS*	*APN*	*SF UNITS*	*MF UNITS*	*COMM. SF*	*IND. SF*
Phelan Lathrop Gateway - Phase II	Various	241-820-09, and -11	-	-	-	890,375
Building 1 of South Lathrop Commerce Center	5120 Glacier St.	241-030-16	-	-	-	1,135,653
Building 3 of South Lathrop Commerce Center	5150 Glacier St.	241-030-18				920,402
Building 5, 6, and 7 of South Lathrop Commerce Center	5070, 5050, and 5030 W. Yosemite Ave.	241-030-20, -21, and -22				569,912
Panda Express	15099 Old Harlan Rd.	196-110-27	-	-	2,200	-
Tru by Hilton - 79-rooms	161 E. Louise Ave.	196-270-23	-	-	38,660	-
Golden Valley Self-Storage	16000 Golden Valley Pkwy.	191-200-27, -28, -29, and -30	-	-	152,000	
Towne Centre Apartments	240 Towne Centre Dr.	191-700-14	-	62	-	-
Towne Centre Apartments Phase 2	231 and 201 Towne Centre Dr.	191-550-74 and -75	-	84	-	-
Fairfield Inn - 90 rooms	N/A	191-760-02	-	-	50,458	-
Seefried Warehouse	18284 S. Harlan Rd.	198-130-64	-	-		189,000
RAD Urban Expansion	18231 Murphy Pkwy.	198-190-30	-	-	-	87,435
CFT Phase 2	15107 and 15135 Old Harlan Rd.	196-110-29 and -30	-	-	2,470	-
Duke Lathrop	16825 Murphy Pkwy.	198-210-19	-	-	-	346,860
Kraft Heinz	500 E. Louise	198-120-14	-	-	-	649,980
Chevron and Blue Rain Car Wash (Under Construction)	16460 and 16446 Golden Valley Pkwy.	192-040-47 and -48	-	-	9,413	-
		SUB-TOTALS	**0**	**350**	**282,901**	**5,779,967**
APPROVED AND PENDING CONSTRUCTION						
Multi-Entitlement - Lathrop Towne Centre	17100 Golden Valley Pkwy.	191-119-049	-	-	126,000	-
Multi-Entitlement - Lathrop Towne Centre - Hotel - 117 Rooms	17100 Golden Valley Pkwy.	191-119-049	-	-	60,000	-
Multi-Entitlement - North Crossroads Business Park - Remaining Buildings	500 and 1300 E. Louise Ave.	198-120-08 and 198-140-16	-	-	-	534,842
MSPR-19-52 - Lathrop Retail Building	15322 S. Harlan Rd.	196-110-19	-	-	7,848	-
Multi-Entitlement - Watt Commercial - Lathrop Market Place	N/A	191-760-02 thru -12, -16 thru 21	-	-	104,000	-
Phelan Lathrop Gateway - Phase III	Various	241-820-15	-	-	-	1,197,188
South Lathrop Commerce Center Remaining Buildings	Various	241-030-45, -19, -46, -47, and -23	-	-	-	2,125,187

PROJECT NAME		*ADDRESS*	*APN*	*SF UNITS*	*MF UNITS*	*COMM. SF*	*IND. SF*
McKinley Avenue Development		16300 S. McKinley Ave.	198-100-11	-	-	14,800	-
Scannell Properties Industrial Project		1520 Lathrop Rd.	198-040-14	-	-	-	191,160
Maverik Convenience Store & Fueling Facility		980 E. Lousie Ave.	198-120-11	-	-	5,951	-
HDC Properties (Cheema)		16190 and 16200 S. McKinley Ave.	198-100-12 and -13	-	-	22,200	-
TownePlace Suites by Marriott (97 rooms)		17400 Golden Valley Pkwy.	191-190-62	-	-	53,493	-
Lathrop Crossroads Industrial		1101 D'Arcy Pkwy.	198-130-54, -55, -57, and -58	-	-	-	448,904
Wendy's Lathrop		16412 Golden Valley Pkwy.	192-040-50	-	-	5,208	-
Ono Hawaiian BBQ		16434 Golden Valley Pkwy.	192-040-49	-	-	2,350	-
Home2Suites by Hilton (94 rooms) and Future Assisted Living Facility		15800 Golden Valley Pkwy.	192-040-19	-	-	68,565	-
			SUB-TOTALS	**0**	**-**	**470,415**	**4,497,281**
PENDING DEVELOPMENT PROJECTS - CURRENTLY PROCESSING APPLICATION(S)							
Hardeep Singh Truck Repair		18401 S. McKinley Ave.	241-400-28 and -27	-	-	7,500	-
Del Webb Community Center		Phase 2 of River Islands	-	-	-	13,829	-
River Islands Phase 1 Apartments		N/A	213-310-43	-	220	-	-
Escala at Stanford Crossing		400 Stanford Crossing	192-030-17	-	195	-	-
Ashley Furniture		14101 S. Manthey Rd.	192-020-14	-	-	-	1,486,607
			SUB-TOTALS	**0**	**415**	**51,843**	**1,486,607**
RESIDENTIAL DEVELOPMENT							
Building Permits Issued - SFD	2014	-	-	190	-	-	-
	2015	-	-	343	-	-	-
	2016	-	-	170	-	-	-
	2017	-	-	297	-	-	-
	2018	-	-	383	-	-	-
	2019	-	-	389	-	-	-
	2020	-	-	681	146	-	-
	2021	-	-	957	172	-	-
	2022	-	-	929	29	-	-
			SUB-TOTALS	**4,339**			

PROJECT NAME		*ADDRESS*	*APN*	*SF UNITS*	*MF UNITS*	*COMM. SF*	*IND. SF*
Projected Building Permits based on AVERAGE from 2015-2020. Not counted in **TOTALS** below.	2023	-	-	377	-	-	-
	2024	-	-	377	-	-	-
	2025	-	-	377			
	2026	-	-	377	-	-	-
	2027	-	-	377	-	-	-
SUB-TOTALS				**1,885**			
Central Lathrop - Remaining Dwelling Units (based on the total number of dwelling units in Phase 1 (1,212) minus the total number of permits issued (as of 05.11.23).				254	-	-	-
River Islands Phase 1 - Remaining Dwelling Units (based on total number of dwelling units per Tract 3694 (4,284) minus the total number of permits issued (as of 05.11.23).				825	-	-	-
River Islands Phase 2 - Approved in June 2021 by City Council which will include development of 10,726 dwelling units. 698 Residential - High Units, 2,439 Mixed Use (Paradise Cut Village Center) and 1,821 Transit Oriented Development units assumed to be Apartments or HDR density.				5,768	5,258		
SUB-TOTALS				**6,847**	**5,605**	**0**	**0**
GRAND TOTAL				***11,186***	***6,020***	***805,159***	***11,763,855***

SOURCE: CITY OF LATHROP GENERAL PLAN EIR (2023).

CUMULATIVE EFFECTS OF THE PROJECT

Cumulative settings are identified under each cumulative impact analysis. Cumulative settings vary because the area that the impact may affect is different. For example, noise impacts generally only impact the local surrounding area because noise travels a relatively short distance, while air quality impacts affect the whole air basin as wind currents control air flow and are not generally affected by natural or manmade barriers which would affect noise. Cumulative proposed Project impacts are addressed and summarized below.

Method of Analysis

Although the environmental effects of an individual project may not be significant when that project is considered separately, the combined effects of several projects may be significant when considered collectively. State CEQA Guidelines 15130 requires a reasonable analysis of a project's cumulative impacts, which are defined as "two or more individual effects which, when considered together are considerable or which compound or increase other environmental impacts." The cumulative impact that results from several closely related projects is: the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time (State CEQA Guidelines 15355[b]). Cumulative impact analysis may be less detailed than the analysis of the project's individual effects (State CEQA Guidelines 15130[b]).

There are two approaches to identifying cumulative projects and the associated impacts. The list approach identifies individual projects known to be occurring or proposed in the surrounding area in order to identify potential cumulative impacts. The projection approach uses a summary of projections in adopted General Plans or related planning documents to identify potential cumulative impacts. This EIR uses a combination of the list approach and the projection approach for the cumulative analysis and considers the development anticipated to occur upon buildout of the various General Plans in the area in addition to the pending projects in the area.

Project Assumptions

The proposed Project's contribution to environmental impacts under cumulative conditions is based on full buildout of the Project site. See Chapter 2.0, Project Description, for a complete description of the proposed Project.

Cumulative Impacts

Some cumulative impacts for issue areas are not quantifiable and are therefore discussed in general terms as they pertain to development patterns in the surrounding region. Exceptions to this are traffic, utilities, noise, and air quality (the latter two of which are associated with traffic volumes), which may be quantified by estimating future traffic patterns, pollutant emitters, etc. and determining the combined effects that may result. In consideration of the cumulative scenario described above, the proposed Project may result in the following cumulative impacts.

AESTHETICS AND VISUAL RESOURCES

The cumulative setting for aesthetics is the City of Lathrop and surrounding areas of San Joaquin County.

Impact 4.1: Cumulative Damage to Scenic Resources within a State Scenic Highway (Less than Significant)

As described in Section 3.1, Aesthetics and Visual Resources, there are no designated State Scenic Highways in the vicinity of the Project site. Only one highway section in San Joaquin County is listed as a Designated Scenic Highway by the California Department of Transportation (Caltrans) Scenic Highway Mapping System; the segment of Interstate 580 (I-580) from Interstate 5 (I-5) to State Route (SR) 205 located approximately 16 miles southwest of the Project site. Views from this route are primarily agricultural with distant views of the Coast Range. The City of Lathrop and the Project site are not visible from this roadway segment.

Cumulative development in the city would not impact a State Scenic Highway. As such, impacts relative to scenic resources would be ***less than significant***.

Impact 4.2: Cumulative Conflicts with the Applicable Zoning and Other Regulations Governing Scenic Quality (Significant and Unavoidable and Cumulatively Considerable)

As described in Section 3.1, the proposed Project would result in a land use consistent with the land use designation of the Project site. More specifically, the Project proposes the construction of

freeway commercial services, consisting of a new travel center with multiples facilities, gasoline and diesel refueling stations, service station, and parking lots. These improvements would be aesthetically similar to service uses currently developed or anticipated within the immediate area and along I-5, such as the trucking sales and travel service centers across I-5 from the Project site. The proposed buildings and new impervious surface, in and of itself, would not substantially degrade the existing visual character or quality of the area and its surroundings, since uses would be similar to the urbanized uses near the proposed Project site. Therefore, while the Project would result in a loss of rural agricultural land, it would result in the development of commercial uses in an area of Lathrop currently planned for and developed with similarly scaled travel center amenities.

Under cumulative conditions, buildout of the General Plans for Lathrop and the surrounding jurisdictions could result in changes to the visual character and quality of the City of Lathrop through development of undeveloped areas and/or changes to the character of existing communities. Development of the proposed Project, in addition to other future projects in the area, would change the existing visual and scenic qualities of the City. It is noted that although the Project site is undeveloped and was previously used for agricultural uses, the General Plan designates the site for Freeway Commercial uses. Additionally, the surrounding areas to the north, east, and south are designated for urban uses (including Freeway Commercial and Industrial uses) by the General Plan. The proposed General Plan amendment for the western portion of the site (from Agriculture/General [County] to Freeway Commercial [City]) would be processed as part of the proposed Project entitlements. Overall, the General Plan and associated EIR anticipated development of the area to the north, south, and east of the Project site for similar uses as proposed by the Project.

Development within the City would be required to be consistent with the General Plan policies and City Municipal Code, both of which cover aesthetics and visual characteristics. Further, the Municipal Code contains development standards that address the visual character of a development project, such as building height, massing, setbacks, lighting, and landscaping. Implementation of these requirements would reduce the impacts associated with development. As such, impacts relative to scenic quality would be ***less than significant***.

Impact 4.3: Cumulative Impact on Light and Glare (Less than Significant)

The Lathrop General Plan EIR determined the impact of new sources of light and glare can be minimized by incorporating design features and operating requirements into new developments that limit light and glare. Additionally, improvements such as landscape and street lighting, are subject to Site Plan and Architectural Design Review. Design Review procedures in compliance with 17.100 and 17.104 of the Lathrop Municipal Code.

Light sources from the proposed parking lot may have a significant adverse impact on the surrounding areas, by introducing nuisance light into the area and decreasing the visibility of nighttime skies. Additionally, on-site light sources may create light spillover impacts on surrounding land uses in the absence of mitigation.

Future projects within Lathrop would be subject to the light and glare standards established by the City. These regulations are designed to minimize potential light and glare impacts of new development. Implementation of these regulations would ensure that future projects minimize their potential light and glare impacts resulting in a ***less than significant*** cumulative impact relative to this environmental topic.

AGRICULTURAL RESOURCES

San Joaquin County has a total land area of 1,391 square miles. The total acreage of crop land in the county is approximately 772,762 acres. The gross value of agricultural production in San Joaquin County for 2021 was $3,193,234,000 which represents a 5.0 percent increase ($162,605,000) in value from 2020.

Data from the Department of Conservation indicates that approximately 1,858 acres of Prime Farmland in the County was developed for other uses between 2016 and 2018, resulting in an existing total of 381,934 acres of Prime Farmland (42 percent of agricultural land). The remaining agricultural land is comprised of Farmland of Statewide Importance (9 percent), Unique Farmland (9 percent), Farmland of Local Importance (7 percent), and Grazing Land (14 percent).

Impact 4.4: Cumulative Impact on Agricultural Resources (Less than Significant)

As described in Section 3.2, Agricultural Resources, development of the proposed Project would result in the permanent conversion of approximately 19.45 of Farmland of Local Importance to nonagricultural use. However, Prime Farmland, Unique Farmland, and Farmland of Statewide Importance would not be converted as none is found on-site.

The City of Lathrop General Plan EIR identifies that the location or nature of the General Plan could result in the conversion of farmland to non-agricultural use and identified General Plan policies to support the continuation of working farmland and agricultural land to maintain agricultural use adjacent to non-agricultural uses. However, the EIR concluded that implementation of the General Plan would result in a less than significant impact as the General Plan includes policies which would reduce the impact of development resulting in the conversion of existing farmland. This includes policies which encourage agricultural land uses in areas outside of Lathrop while supporting the continuation of agricultural operations and activities on lands adjacent to the SOI and with the City's Area of Influence, and within the city.

Additionally, neighboring agricultural land, including Prime Farmland and Farmland of Local Importance, are located to the north, south, and west of the Project site. The City of Lathrop Right-to-Farm Ordinance (15.48.030) of the City's Agricultural Land Disclosure Statement (15.48.040) reduces the potential for conflict between existing agricultural lands and adjacent uses. The notification procedures in the ordinance serves to inform landowners and developers of non-agricultural uses of what the expectations are in the area with regard to continued agricultural activities. This notification process is designed to reduce complaints and legal conflicts between existing agricultural operations and future development. The proposed Project would be subject to

the City of Lathrop Right-to-Farm Ordinance (15.48.030) of the City's Agricultural Land Disclosure Statement (15.48.040).

The City of Lathrop General Plan EIR (2022) identifies that the location or nature of the General Plan could result in the conversion of farmland to non-agricultural use and identified General Plan policies to support the continuation of working farmland and agricultural land to maintain agricultural use adjacent to non-agricultural uses. However, the EIR concluded that implementation of the General Plan would result in a less than significant impact as the General Plan includes policies which would reduce the impact of development resulting in the conversion of existing farmland. This includes policies which encourage agricultural land uses in areas outside of Lathrop while supporting the continuation of agricultural operations and activities on lands adjacent to the SOI and with the City's Area of Influence, and within the city. The EIR noted that adherence to the policies would ensure that projects include adequate measures to buffer project uses from adjacent agricultural uses and would reduce adverse effects on neighboring agricultural uses, while supporting ongoing agricultural operations in areas within and surrounding the city.

Implementation of these regulations would ensure that future projects minimize their potential agricultural resources impacts resulting in a ***less than significant*** cumulative impact relative to this environmental topic.

AIR QUALITY

The cumulative setting for air quality impacts is the San Joaquin Valley Air Basin (SJVAB), which consists of eight counties, stretching from Kern County in the south to San Joaquin County in the north. The SJVAB is bounded by the Sierra Nevada in the east, the Coast Ranges in the west, and the Tehachapi mountains in the south.

Impact 4.5: Cumulative Impact on the Region's Air Quality (Significant and Unavoidable and Cumulatively Considerable)

Under buildout conditions in San Joaquin County, the SJVAB would continue to experience increases in criteria pollutants. San Joaquin County has a State designation Attainment or Unclassified for all criteria pollutants except for ozone, respirable particulate matter (PM_{10}) and fine particulate matter ($PM_{2.5}$). San Joaquin County has a national designation of either Unclassified or Attainment for all criteria pollutants except for Ozone and $PM_{2.5}$. Table 3.3-2 in Section 3.3 presents the State and Federal attainment status for San Joaquin County.

As discussed under Impact 3.3-1 in Section 3.3, Air Quality, the proposed Project would result in increased emissions. The San Joaquin Valley Air Pollution Control District (SJVAPCD) has established operations related emissions thresholds of significance and it was determined that annual emissions of the proposed Project would not exceed the SJVAPCD thresholds of significance for construction criteria pollutants. Additionally, the operational emissions shown therein would be below the SJVAPCD's significance threshold.

Further, as noted in Section 3.3, Air Quality, the maximum residential cancer risk would occur at a residence located at 11401 Manthey Road, located directly adjacent to the Project site to the

south, would have a residential cancer risk of approximately 28.6 per million. The maximum workplace cancer risk would occur within the central portion of the Project site, located around the gasoline pumps. The maximum workplace cancer risk would occur at the central portion of the Project site, around the gasoline fueling station, with a maximum risk of up approximately 5.9 per million (at the location of maximum workplace cancer risk). Although the workplace cancer risk would be below the applicable SJVAPCD threshold, the residential cancer risk would be above this threshold. As shown in Table 3.3-15 in Section 3.3, the proposed Project, in and of itself, could not result in a significant increased exposure of receptors to localized concentrations of TACs for the residential located at 11401 Manthey Road. Further detail is provided in the Health Risk Assessment provided in Appendix A.3. Therefore, implementation of the proposed Project is considered to have the potential to cause a ***significant and unavoidable*** impact relative to this topic.

BIOLOGICAL RESOURCES

The cumulative setting for biological resources includes the Project site and the greater San Joaquin County region. Development associated with implementation of the local General Plan(s) would contribute to the ongoing loss of natural and agricultural lands in San Joaquin County, including the Project site. Cumulative development would result in the conversion of existing habitat to urban uses. The local General Plan(s), in addition to regional, State, and federal regulations, includes policies and measures that mitigate impacts to biological resources associated with General Plan buildout.

Impact 4.6: Cumulative Loss of Biological Resources Including Habitats and Special-Status Species (Less than Significant)

Under cumulative conditions, buildout of the General Plan(s) within San Joaquin County will result in impacts to biological resources in the cumulative area through new and existing development. The General Plan(s) includes policies that are designed to minimize impacts to the extent feasible.

As described in Section 3.4, Biological Resources, construction in the Project site has the potential to result in impacts to special-status species in the region. The Project site provides potential habitat for several species, including those discussed in Section 3.4. All biological resources impacts were determined to have no impact, be less-than-significant, or less-than-significant with mitigation.

Mitigation Measures 3.4-1 and 3.4-2 require the Project applicant to conduct preconstruction surveys and avoid or minimize impacts to special status bumble bees and obtain coverage under the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) to mitigate for habitat impacts to covered special status species. As part of Mitigation Measure 3.4-2, compensatory mitigation for habitat impacts on covered species through implementation of incidental take and minimization Measures (ITMMs) and payment of fees for conversion of lands that may provide habitat for covered special status species.

The Project would result in impacts to biological resources including habitats and special status species. The City has evaluated urban development in the Project area through the General Plan process, and subsequently determined that urban development in this location is appropriate. The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts. Implementation of the regulations contained in the SJMPSCP and the various General Plans within San Joaquin County would ensure that future projects minimize their potential biological resources. For these reasons, cumulative impacts on the loss of biological resources are ***less than significant***.

CULTURAL AND TRIBAL RESOURCES

The geography of cultural and tribal resources impacts can be defined by region, by political subdivision, or by the geography of the cultural resources present in an area, where sufficient inventory data is available to define it. The cumulative setting for cultural and tribal resources includes all of San Joaquin County. There are extensive cultural sites located in the region.

Impact 4.7: Cumulative Impacts on Known and Undiscovered Cultural and Tribal Resources (Less than Significant)

Cumulative development anticipated in the City of Lathrop, including growth projected by adopted future projects, may result in the discovery and removal of cultural resources, including archaeological, paleontological, historical, and Native American resources and human remains. As discussed in Section 3.5, Cultural and Tribal Resources, there are no cultural or archaeological resources recorded in or near the Project site or search radius. However, one historic site remnant was found and recorded as ML-20-06 in a 2021 field survey effort. ML-20-06 has been recorded, and is not eligible for the CRHR, and there are no significant cultural resources with the Project site.

Mitigation Measure 3.5-1 addresses the potential impacts to unknown subsurface deposits believed to be cultural, historical, archaeological, tribal, and/or human in origin. Any previously unknown cultural and/or tribal resources which may be discovered during development of the proposed Project would be required to be preserved, either through preservation in place, excavation, documentation, curation, data recovery, or other appropriate measures. With implementation of Mitigation Measure 3.5-1 provided in Section 3.5, the proposed Project is not anticipated to considerably contribute to a significant reduction in cultural resources in the region.

All future projects in the regional vicinity would be subject to the General Plan, which has policies and measures that are designed to ensure protection of undiscovered cultural resources. However, not every cultural or tribal cultural resources can be protected. For example, circumstances may arise where present and probable future projects contain historical resources that are part of the built environment, historical resources of an archaeological nature, and/or tribal cultural resources that cannot be preserved in place. As such, there would be substantial adverse changes in the significance of historical resources or tribal cultural resources on the cumulative level. Such impacts are significant by statute. (Pub. Resources Code, §§ 21084.1,

21084.2.). The cumulative impacts of development anticipated in the City of Lathrop, including growth projected by adopted future projects, would therefore be significant.

All future projects in the regional vicinity would be subject to their respective General Plans (i.e., City of Lathrop and San Joaquin County), each of which have policies and measures that are designed to ensure protection of undiscovered cultural resources. In addition, all discretionary projects in these jurisdictions would require environmental review per regulations established in CEQA. As such, impacts related to cultural resources would result in a ***less than significant*** impact.

GEOLOGY AND SOILS

Impacts related to geology and soils are not inherently cumulative. Geology and soils concerns are related to risks, hazards or development constraints that are largely site-specific. However, seismic hazards are regional, and management of seismic hazards is vested with the local planning and building authority. For these reasons, the potential for cumulative geology and soils impacts are considered in the context of the City of Lathrop and vicinity.

Impact 4.8: Cumulative Impact on Geologic and Soils Resources (Less than Significant)

As discussed in Section 3.6, Geology and Soils, the Project site does not have a significant risk of becoming unstable as a result of landslide, subsidence, soil collapse, liquefaction, liquefaction induced settlement, or lateral spreading. Nevertheless, while the Geotechnical Engineering Investigation concludes that construction of the Project is feasible from a geotechnical standpoint provided the site preparation, grading and building recommendations in the Investigation are incorporated. However, mitigation measures provided in Section 3.6 ensure that this impact will be less than significant. While the City is not within an area known for its seismic activity, there will always be a potential for groundshaking caused by seismic activity anywhere in California, including the Project site. Seismic activity could come from a known active fault such as the San Joaquin fault, or any number of other faults in the region. In order to minimize potential damage to the buildings and site improvements, all construction in California is required to be designed in accordance with the latest seismic design standards of the California Building Code. Additionally, the City of Lathrop has incorporated numerous policies relative to seismicity to ensure the health and safety of all people. Design in accordance with these standards and policies would ensure that any potential for the proposed Project to exacerbate existing geological hazards would be avoided. All impacts would be less-than-significant or less-than-significant with mitigation.

Additionally, two of the closest known faults classified as active by the California Geological Survey are the Greenville fault, located approximately 23 miles to the west, and the Foothills Fault System, located approximately 33 miles to the east. While the City is not within an area known for its seismic activity, there will always be a potential for groundshaking caused by seismic activity anywhere in California, including the Project site. In order to minimize potential damage to the buildings and site improvements, all construction in California is required to be designed in accordance with the latest seismic design standards of the California Building Code. Design in accordance with the Building Code and recommendations included in the Geotechnical

Engineering Investigation for Singh Petroleum Investments Percolation (CTE CAL, Inc., 2022) would reduce any potential impact to a less than significant level.

Geologic and soils impacts tend to be site-specific and Project-specific. With the mitigation measure presented in Section 3.6, implementation of the proposed Project would not result in increased risks or hazards related to geologic conditions in the cumulative area, nor would it result in any off-site or indirect impacts. Overall, impacts related to geologic and soil resources would result in a ***less than significant*** impact.

GREENHOUSE GASES, CLIMATE CHANGE, AND ENERGY

As the California Supreme Court has reasoned, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself. The challenge for CEQA purposes is to determine whether the impact of the project's emissions of greenhouse gases is cumulatively considerable, in the sense that 'the incremental effects of [the] individual 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.'" (*Center for Biological Diversity v. California Department of Fish and Wildlife* (2015) 62 Cal.4th 204, 219.) "'With respect to climate change, an individual project's emissions will most likely not have any appreciable impact on the global problem by themselves, but they will contribute to the significant cumulative impact caused by greenhouse gas emissions from other sources around the globe. The question therefore becomes whether the project's incremental addition of greenhouse gases is "cumulatively considerable" in light of the global problem, and thus significant.'" (*Ibid*.)

The cumulative setting for analysis of greenhouse gas emissions and climate change impacts for this analysis is San Joaquin County, which is the boundary for the California Air Resources Board's regional greenhouse gas emissions reduction targets.

Impact 4.9: Cumulative Impact on Climate Change from Increased Project-Related Greenhouse Gas Emissions (Less than Significant)

GHG emissions from a single Project will not cause global climate change; however, GHG emission from multiple projects throughout a region or state could result in a cumulative impact with respect to global climate change.

The California Legislature has enacted a series of statutes in recent years addressing the need to reduce GHG emissions across the State. These statutes can be categorized into four broad categories: (i) statutes setting numerical statewide targets for GHG reductions, and authorizing CARB to enact regulations to achieve such targets; (ii) statutes setting separate targets for increasing the use of renewable energy for the generation of electricity throughout the State; (iii) statutes addressing the carbon intensity of vehicle fuels, which prompted the adoption of regulations by CARB; and (iv) statutes intended to facilitate land use planning consistent with statewide climate objectives.

Between AB 32 (2006) and SB 32 (2016), the Legislature has codified some of the ambitious GHG reduction targets included within certain high-profile State Executive Orders issued by the last two

Governors. The 2020 statewide GHG reduction target in AB 32 was consistent with the second of three statewide emissions reduction targets set forth in former Governor Arnold Schwarzenegger's 2005 Executive Order known as S-3-05, which is expressly mentioned in AB 32. (See Health & Safety Code Section 38501, subd. (i).) That Executive Branch document included the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; by 2050, reduce GHG emissions to 80 percent below 1990 levels. To meet the targets, the Governor directed several State agencies to cooperate in the development of a climate action plan. The Secretary of Cal-EPA leads the Climate Action Team, whose goal is to implement global warming emission reduction programs identified in the Climate Action Plan and to report on the progress made toward meeting the emission reduction targets established in the executive order.

In 2015, Governor Jerry Brown issued Executive Order, B-30-15, which created a "new interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050." SB 32 codified this target.

In 2018, the Governor issued Executive Order B-55-18, which established a statewide goal to "achieve carbon neutrality as soon as possible, and no later than 2045, and maintain and achieve negative emissions thereafter." The order directs the CARB to work with other State agencies to identify and recommend measures to achieve those goals.

Notably, the Legislature has not yet set a 2045 or 2050 target in the manner done for 2020 and 2030 through AB 32 and SB 32, though references to a 2050 target can be found in statutes outside the Health and Safety Code. Senate Bill 350 (Stats. 2015, ch. 547) added to the Public Utilities Code language that essentially puts into statute the 2050 GHG reduction target already identified in Executive Order S-3-05, albeit in the limited context of new state policies (i) increasing the overall share of electricity that must be produced through renewable energy sources and (ii) directing certain State agencies to begin planning for the widespread electrification of the California vehicle fleet. Section 740.12(a)(1)(D) of the Public Utilities Code now states that "[t]he Legislature finds and declares [that] … [r]educing emissions of [GHGs] to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050 will require widespread transportation electrification." Furthermore, Section 740.12(b) now states that the California Public Utilities Commission (PUC), in consultation with CARB and the California Energy Commission (CEC), must "direct electrical corporations to file applications for programs and investments to accelerate widespread transportation electrification to reduce dependence on petroleum, meet air quality standards, and reduce emissions of greenhouse gases to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050."

As presented in Table 3.7-2 in Section 3.7, short-term construction emissions of GHGs are estimated to be a total of approximately 497.4 metric tons of carbon dioxide equivalents ($MTCO_2e$) per year. As shown in Table 3.7-3, the annual operational GHG emissions associated with the proposed Project would be approximately 5.238 MT CO_2e. The proposed Project would not conflict with the 2022 Scoping Plan. The proposed Project incorporates a wide array of construction- and

operation-related Project features that reduce Project emissions, as provided previously (see the list of Project features under the *Project Sustainability Features* discussion, above). Therefore, the Project would be considered consistent with the 2022 Scoping Plan. Since the proposed Project would be consistent with the CARB's 2022 Scoping Plan, buildout of the proposed Project would not interfere with the main programs the CARB has identified to support its conclusions that the State is on a trajectory to meet the 2045 GHG target. Overall, the proposed Project would not impede the 2022 Scoping Plan and would help the State to progress towards this target.

Overall, a ***less than significant*** cumulative impact relative to this environmental topic would result.

HAZARDS AND HAZARDOUS MATERIALS

The cumulative context for the analysis of cumulative hazards and human health impacts is San Joaquin County, including all cumulative growth therein, as represented by full implementation of each respective General Plan (i.e., Lathrop, Stockton, San Joaquin County, etc.).

Impact 4.10: Cumulative Impact Related to Hazards and Hazardous Materials (Less than Significant)

The following was identified during the course of the Phase I Environmental Site Assessment (ESA):

- Several drums of waste oil, oil, oil filters, and paint were dumped and impacted the soil on the eastern portion of the Project site in early March 2023. In mid-March 2023, 5.1 cubic yards of soil were excavated for disposal. Only visual observations were utilized to determine the extent of the excavation. On April 5, 2023, a follow-up inspection of the Project site was conducted. No obvious petroleum staining or odors were observed in soils remaining within the excavation area. Any residual petroleum contamination (if any) will likely be minimal and not of significant concern to the Project site. Confirmation soil-sampling was not conducted during the March 2023 clean-up. While the soil visually appears clean, confirmation soil samples should be considered to validate the successful removal of the impacted soil. This is a potentially significant impact.
- The Project site is currently and has historically been used for agricultural purposes since the late 1930s. As such, agricultural-related chemicals such as pesticides, herbicides, insecticides, and fertilizers have been used and stored onsite. This is a potentially significant impact.
- An abandoned water well is centrally located on the west boundary of the Project site. If the well will not be rehabilitated for future use, the well should be destroyed under permit. This is a potentially significant impact.

Section 3.8 includes Mitigation Measure 3.8-1 to addresses these potentially hazardous conditions.

The operational phase of the Project will occur after construction is completed and business operators/employees move in to occupy the structures and facilities on a day-to-day basis. Each of these uses will likely use a variety of hazardous materials commonly found in urban areas including: paints, cleaners, and cleaning solvents. If handled appropriately, these materials do not pose a significant risk. These facilities will store and use these materials. There will be a risk of

release of these materials into the environment if they are not stored and handled in accordance with best management practices approved by the San Joaquin County Environmental Health Department and the Lathrop-Manteca Fire Protection District (LMFD). The uses in the 16,668-sf building are not anticipated to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste beyond the common materials described above. However, the proposed fueling facility and truck and automobile repair shop would require the use of hazardous and flammable materials.

The proposed Project, in conjunction with cumulative development in the region, would include areas designated for a variety of urban, agricultural, and open space uses as defined by the City's General Plan. Cumulative development would include continued operation of, or development of, new facilities as allowed under each land use designation. New development would inevitably increase the use of hazardous materials within the region, resulting in potential health and safety effects related to hazardous materials use. For the most part, potential impacts associated with new and future development would be confined to commercial and industrial areas and would not involve the use of hazardous substances in large quantities or that would be particularly hazardous. Incidents, if any, would typically be site specific and would involve accidental spills or inadvertent releases. Associated health and safety risks would generally be limited to those individuals using the materials or to persons in the immediate vicinity of the materials and would not combine with similar effects elsewhere (i.e., construction workers), as hazard-related impacts tend to be site-specific and Project-specific.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would not result in significant increased risks of hazards in the cumulative area, nor would it result in any significant off-site or indirect impacts. Mitigation measures have been included to reduce the risk of on-site hazards associated with the use of on-site hazardous materials. For these reasons, cumulative impacts associated with hazards and hazardous materials would be ***less than significant***.

HYDROLOGY AND WATER QUALITY

Potential cumulative issues associated with surface waters can be addressed on a watershed basis, or in the case of groundwater, in the context of a groundwater basin. Because water resources are highly interconnected, the cumulative setting is based on San Joaquin County which is located in the San Joaquin River Hydrological Region. Cumulative development in this region, including the proposed Project, would impact the water quality and hydrological features of the San Joaquin River Hydrologic Region. The City of Lathrop and much of the surrounding area is located in the San Joaquin Valley Groundwater Basin. The Project site is located in the San Joaquin River watershed.

Impact 4.11: Cumulative Increases in Peak Stormwater Runoff from the Project Site (Less than Significant)

Implementation of the proposed Project would increase the amount of impervious surfaces in the Project site, which could increase peak stormwater runoff rates and volumes on and downstream

of the Project site. However, the proposed Project includes an extensive system of on-site stormwater collection facilities to accommodate the increased stormwater flows that would originate in the Project site.

The proposed stormwater collection system functions through storm drainage collection, treatment, detention, and discharge. As discussed in Chapter 2.0, development of the proposed Project would include construction of a new storm drainage system, including a drainage collection system, and a private storm water retention basin. A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site, and a landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin. The final design of all onsite and offsite storm drain infrastructure improvements is subject to the review and approval of the City of Lathrop. The storm drain infrastructure has been designed with surface areas and volumes in compliance with City standards. The same is true of other foreseeable development in the County, which would similarly be bound to comply with strict federal, state, and local laws and regulations. For example, present and probable future development projects in the City would be required to comply with the City's stormwater runoff regulations, including but not limited to those found in the Municipal Code. With the design and construction of improvements included in the proposed storm drainage system, the proposed Project would not increase peak stormwater runoff. The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts given that mitigation measures would control peak stormwater runoff. The proposed Project would not have cumulatively considerable impacts associated with stormwater runoff.

With the design and construction of flood control improvements, the proposed Project would not increase peak stormwater runoff. Overall, a ***less than significant*** cumulative impact relative to this environmental topic would occur.

Impact 4.12: Cumulative Impacts Related to Degradation of Water Quality (Less than Significant)

The proposed Project, along with several of the related projects within the City of Lathrop, would ultimately discharge stormwater runoff to on-site detention basins, irrigation canals, the San Joaquin River, or the groundwater basin. This would potentially degrade the water quality of the system. There are many areas within the San Joaquin County which are considered Section 303(d) impaired waterbodies. Those areas in the city and in the regional vicinity of the Planning Area that are impaired are referred to as Delta Waterways (Southern Portion) by the Water Quality Control Monitoring Council. This includes 3,125 acres listed as early as 1996 for Chlorpyrifos (Agriculture, Urban Runoff/Storm Sewers), DDT (Agriculture), Diazinon (Agriculture, Urban Runoff/Storm Sewers), Electrical Conductivity (Agriculture), Group A Pesticides (Agriculture), Invasive Species (Source Unknown), Mercury (Resource Extraction), and Unknown Toxicity (Source Unknown).

Construction of the proposed Project would contribute to a cumulative increase in urban pollutant loading, which could adversely affect water quality. Cumulative development in the Lathrop area,

including the proposed Project, would also result in increased impervious surfaces that could increase the rate and amount of runoff, thereby potentially adversely affecting existing surface water quality through increased erosion and sedimentation. The primary sources of water pollution include: runoff from roadways and parking lots; runoff from landscaping areas; non-stormwater connections to the drainage system; accidental spills; and illegal dumping. Runoff from roadway and parking lots could contain oil, grease, and heavy metals; additionally, runoff from landscaped areas could contain elevated concentrations of nutrients, fertilizers, and pesticides.

The proposed Project will be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP will include BMPs to regulate stormwater quality for the Project site which will be designed in accordance with the National Pollutant Discharge Elimination System Permit (NPDES) Stormwater Program. The overall design of the drainage infrastructure will be required to comply with the *Multi-Agency Post-Construction Stormwater Standards Manual* (2015), which ensures development projects comply with the NPDES permit requirements, facilitates review of applications, and promotes integrated Low Impact Development (LID) design. The Manual also ensures proposed storm drains and infiltration/detention system have been designed to convey the required flow rates and will comply with the flood protection and storm water quality requirements of the City of Lathrop and San Joaquin County.

While the Project Area's soils have a range of low to moderately high infiltration rates, much of the groundwater recharge in the basin occurs from irrigation followed by precipitation. Precipitation in the region is 12.2 inches, most of which falls between late October and early May. A portion of this annual rainfall infiltrates the soil and groundwater basin, while a portion is discharged downstream into irrigation canals and the San Joaquin River. While there are no assurances that other projects in the County would incorporate the same degree or methods of treatment as the proposed Project, several of the projects within the City of Lathrop would phase out existing agricultural runoff discharges from their respective sites and, similar to the proposed Project, could provide some level of water quality improvement. Also, each related Project that would discharge stormwater runoff would be required to comply with NPDES discharge permits from the Regional Water Quality Control Board (RWQCB), which adjusts requirements on a case-by-case basis to avoid significant degradation of water quality.

Compliance with City and County water quality protection regulations, approval from the RWQCB, and implementation of a SWPPP would ensure that the proposed Project minimizes impacts to surface water quality. Overall, a ***less than significant*** cumulative impact relative to this environmental topic would occur.

Impact 4.13: Cumulative Impacts Related to Degradation of Groundwater Supply or Recharge (Less than Significant)

The proposed Project would result in new impervious surfaces and could reduce rainwater infiltration and groundwater recharge. Infiltration rates vary depending on the overlying soil types. In general, sandy soils have higher infiltration rates and can contribute to significant amounts of ground water recharge; clay soils tend to have lower percolation potential; and impervious

surfaces such as pavement significantly reduce infiltration capacity and increase surface water runoff.

The Project Area has soils with hydrologic ratings of "A" and "C". Group "A" soils have low runoff potential when thoroughly wet, and Group "C" soils have moderately high runoff potential when thoroughly wet. Development of the Project area with impervious surfaces could reduce rainwater infiltration and groundwater recharge further. The collection of rainwater for those areas of impervious surfaces will be routed into the proposed Project's storm drainage system and eventually flow into the San Joaquin River or other downstream aquatic facilities.

As detailed in the City's 2020 UWMP and mentioned previously in this section, the City's groundwater wells are located in the Tracy Subbasin and the City is part of Tracy Subbasin GSA. The City was a part of the development of the GSP for the Tracy Subbasin in 2021. Based on the GSP for the Tracy Subbasin, and statements in the 2020 UWMP, the City's groundwater supplies are expected to be highly reliable.

As detailed in the GSP, the Sustainability Goal of the Tracy Subbasin GSP is to provide reliable and sustainable groundwater resources for existing and future needs of all beneficial users in the Subbasin that does not degrade or decrease over-time and will continue to be sustained through continued local adaptive management of the resources. Measures to be implemented in the Subbasin to ensure its sustainability include:

- Routine monitoring and analysis of groundwater levels and quality along with a comparison to minimum thresholds and measurable objectives;
- Regular meetings with GSAs to discuss monitoring findings and, as necessary, adaptively adjust management activities to resolve adverse or undesirable groundwater conditions;
- Implementation of necessary projects and management actions, as necessary, based on physical measurements of groundwater conditions at representative monitoring wells;
- Continued implementation of conjunctive use programs.

To achieve the sustainability goals for the Tracy Subbasin by 2042, and to avoid undesirable results over the remainder of a 50-year planning horizon, as required by SGMA regulations, multiple Projects and Management Actions (PMAs) have been identified and considered by the Groundwater Sustainability Agencies (GSAs) in this GSP.

Further, as detailed in the City's 2020 UWMP and mentioned previously in this section, the City's groundwater wells are located in the Tracy Subbasin and the City is part of Tracy Subbasin GSA. The City was a part of the development of the GSP for the Tracy Subbasin in 2021. Based on the GSP for the Tracy Subbasin, and statements in the 2020 UWMP, the City's groundwater supplies are expected to be highly reliable.

As discussed in Section 3.15, Utilities and Service Systems, of the City's General Plan Draft EIR, the City's 2020 UWMP documents current and projects future water demands and supplies through 2040. Water supplies to meet future demands include surface water purchased from SSJID, City produced groundwater and recycled water. The City's water supply is projected to increase by

about 54 percent from 2020 to 2040, primarily due to implementation of the City's UMWP. Future City groundwater pumping is estimated based on the safe yield for all groundwater pumping within the City's planning area which is not predicted to experience any additional restrictions as a result of the City's GSP.

The City plans to utilize its existing groundwater wells to supply water in the future. As discussed in the City's UWMP the current estimated annual groundwater yield is 4,720 AFY and the City currently has no plans to install additional groundwater wells or expand its groundwater production. Additionally, as described in the UWMP the City's ability to utilize groundwater wells will not be impacted by groundwater levels within the Tracy groundwater basin, and would not require the City to limit groundwater production to maintain a sustainable groundwater budget. Based on the available information, it is anticipated that 100% the City's current estimated groundwater yield is available for the planning horizon.

The proposed Project would not be required to build new municipal water wells to increase capacity of available water.

While the Project area's soils have low and high infiltration rates, much of the groundwater recharge in the basin occurs from irrigation followed by precipitation. Precipitation in the region is 12.2 inches, most of which falls between late October and early May. A portion of this annual rainfall infiltrates the soil and groundwater basin, while a portion is discharged downstream into irrigation canals and the San Joaquin River.

Much of the Project area would be maintained as pervious surface. According to the landscaping plan for the Project, approximately 6.05 acres (approximately 27 percent of the site) of landscaping would be provided on-site. These landscaped areas could maintain groundwater recharge areas. While the proposed Project would reduce the amount of pervious surfaces within the Project area, much of the site would be converted to impervious surface. This would result in opportunities for groundwater recharge after the Project area is fully developed.

For the reasons mentioned above, the proposed Project would not cause the substantial depletion of groundwater supplies or interfere substantially with groundwater recharge. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

Impact 4.14: Cumulative Impacts Related to Flooding (Less than Significant)

As shown on Figure 3.9-2, the Project site is not within the 100- or 500-year flood hazard zones. The entire Project site is within the 200-year flood zone. However, pursuant to the City Municipal Code, the proposed Project would be required to comply with regulations contained in Chapter 17.17 (200-Year Flood Protection) of the City Municipal Code.

The proposed development, including water quality BMPs and detention basins, is designed to minimize or eliminate increases in runoff from these new impervious surfaces entering surface water courses and storm drains.

Future development projects in the area could result in additional discharges of stormwater during storm events. When combined, these future development projects could, in theory, lead to an incremental increase in peak stormwater runoff, and potential incremental increases in downstream flood elevations. However, in order to ensure that future development projects in San Joaquin County do not increase downstream flood elevations, the County provides restrictions and regulations that govern the use of floodplains, to include development in the floodplain, issuing of development permits, and reviewing of subdivision proposals to ensure the project is safe from flooding and provides for adequate drainage.

Future development within the City of Lathrop must be sited and designed in accordance with the aforementioned City flood damage regulations (i.e., Chapter 17.17 of the City Municipal Code and/or Chapter 13.28 of the City Municipal Code). The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts given that mitigation measures for new development projects require designs that ensure structures are outside the base flood elevation and that storm water flows are maintained to prevent downstream flooding.

Through compliance with these existing regulations, implementation of the proposed Project would have a ***less than significant*** cumulative impact relative to this environmental topic.

LAND USE

The cumulative setting for land use impacts is the City of Lathrop.

Impact 4.15: Cumulative Impact on Communities and Local Land Uses (Less than Significant)

Cumulative land use impacts, such as the potential for conflicts with adjacent land uses and consistency with adopted plans and regulations, are typically site- and Project-specific. Prior to Project authorization, City approval of the proposed Project would require approval of a General Plan amendment to change land uses in the Project Area to very specifically fit the design concept.

The Project site is currently designated Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map. The proposed Project would require a General Plan Amendment to the City's Land Use Map to change land uses on the Project site. Changes to the Land Use Map would include changing the designation for APN 191-250-06 from A/G (County) to FC (City).

The Project is consistent with most of the applicable General Plan policies that aim to avoid or mitigate an environmental effect. Approval of the General Plan amendment would ensure that the proposed Project would be substantially consistent with the Lathrop General Plan land use requirements and would have a ***less than cumulatively considerable*** impact relative to the Lathrop General Plan. It is noted that consistency with Lathrop General Plan policies and programs related to environmental topics other than land use (aesthetics, agricultural resources, biological resources, cultural resources, geology/soils, hazards, hydrology/water quality, noise, public services, transportation, and utilities) are discussed in the relevant sections of this EIR.

The Lathrop Zoning Code implements the General Plan. The Project site is currently within the jurisdiction of San Joaquin County. The San Joaquin LAFCO will require the Project site to be pre-zoned by the City of Lathrop in conjunction with the proposed annexation. The City's pre-zoning will follow the land use designation intent of General Plan Land Use Map (Freeway Commercial), as such the site will be zoned Highway Commercial (CH). The pre-zoning would go into effect upon annexation into the City of Lathrop.

The City will review each component of the proposed Project as plans (improvement plans, building plans, site plans, etc.) are submitted for final approval to ensure that they are consistent with the City's Zoning ordinance. Overall, the proposed Project, in combination with and past, present, and probable future projects, will have a ***less than significant*** impact relative to this topic.

NOISE

The cumulative setting for noise impacts consists of the existing and future noise sources that could affect the Project site or surrounding uses.

Impact 4.16: Cumulative Exposure of Existing and Future Noise-Sensitive Land Uses to Increased Noise Resulting from Cumulative Development (Less than Significant)

Traffic Noise: Cumulative noise impacts would occur primarily as a result of increased traffic on local roadways due to the proposed Project, including on-site activities resulting from operation of the proposed Project, as well as operational noise from other development projects in the local and regional vicinity. Table 3.11-10 in Section 3.11, Noise, shows cumulative traffic noise levels with and without the proposed Project. According to Table 3.11-10, the ambient noise environment in the Project vicinity as defined by the analyzed road segments does not exceed 60 dBA L_{dn} at the existing sensitive receptors. Therefore, the significance criterion for all segments is +5.0 dBA. As shown in the table, the greatest increase due to traffic from the proposed Project in the cumulative condition is +0.9 dBA, which is less than the threshold of +5.0 dBA. Therefore, impacts resulting from increased traffic noise would be considered ***less-than-significant***.

Construction Noise: Noise generated by construction would be temporary, and would not add to the permanent noise environment or be considered as part of the cumulative context. It is expected that activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet from the construction area. Noise would also be generated during the construction phase by increased truck traffic on area roadways. A significant Project-generating noise source would be truck traffic associated with transport of heavy materials and equipment to and from construction sites. This noise increase would be of short duration and would likely occur primarily during daytime hours, consistent with the City's Noise Ordinance.

The proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause significant cumulative construction noise impacts. Mitigation Measure 3.11-2 requires that construction activities are limited to certain hours, construction equipment is properly maintained, equipment idling is limited, and stationary equipment is located away from

noise-sensitive uses. Implementation of Mitigation Measure 3.11-2 will reduce this impact to a less than significant level and creates a less than cumulatively considerable contribution toward construction noise associated with the project. The proposed Project would have a ***less than cumulatively considerable*** contribution to this cumulatively considerable impact associated with construction noise.

Cumulative Conclusion: The traffic noise from the proposed Project and other reasonably foreseeable development would not produce noise levels that would exceed City standards for existing sensitive receptors. Project related traffic noise level increases would not exceed the FICON substantial increase criteria. Consequently, the proposed project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative impacts. The proposed project would not have cumulatively considerable impacts associated with noise. Implementation of the proposed project would have a ***less than significant cumulative impact*** and ***less than cumulatively considerable*** incremental contribution to cumulative impacts on noise.

PUBLIC SERVICES AND RECREATION

The cumulative setting would include all areas covered in the service areas of the City of Lathrop, as well as the Lathrop Police Department, Lathrop-Manteca Fire Protection District (LMFD) , and the Manteca Unified School District (MUSD). This geographic area was chosen because these service providers would be required to serve the proposed Project and contains those service providers that have to potential to bear a cumulative impact from the proposed project, when the proposed Project is considered together with all past, present, and probably future projects within these providers' service areas.

Impact 4.17: Cumulative Impact on Public Services (Less than Significant)

Under cumulative conditions future local and regional growth will result in increased demand for schools, police protection, fire protection, schools, parks/recreation, and library services. The City and its associated service providers must continue to evaluate the levels of service desired and the funding sources available to meet increases in demand.

The General Plan EIR analyzed impacts to public services (including police protection, fire and emergency services, schools, parks, and libraries), and found that General Plan policies addressed the public services needs of future development resulting from implementation of the General Plan. The specific environmental impact of constructing new facilities could not be determined at the time, but the EIR found that construction and operation of such facilities could potentially cause significant impacts. These potential impacts, however, were addressed and mitigated to the greatest extent feasible by the General Plan policies and mitigation measures included in the EIR.

As noted previously, the Project site has been identified in the City of Lathrop's General Plan for future growth. The General Plan has designated lands within the Project site for development and urban uses on its Land Use Map. The General Plan currently designates the Project site for Freeway

Commercial (FC) uses. Infrastructure needed to support development of the Project area, and the subsequent population, housing and employment increases expected through implementation of the proposed Project, have already been planned and evaluated. Additionally, all lands within the General Plan jurisdiction have been planned to accommodate growth within the City have been evaluated in the General Plan EIR and the City's Municipal Service Review.

Implementation of the proposed Project would contribute toward an increased demand for public services and facilities within the City of Lathrop. It has been determined that future development of the Project site would not directly trigger the need for new facilities for the Lathrop Police Department, LMFD or, or the MUSD. This EIR analyzes the physical environmental effects that may occur as a result of development and introduction of new urban land uses within the Project site. The proposed Project and other past, present, and probable future projects would be subject to all fees that are paid toward the enhancement of public services within the region. Payment of the applicable impact fees by the proposed Project applicant, other project applicants, and ongoing revenues that would come from property taxes, sales taxes, and other revenues generated by the proposed Project and other past, present, and probable future projects, would assist in maintaining existing fire, police, schools, and park services.

Under cumulative conditions, past, present, and probable future projects would result in increased demand for public services and recreational facilities. The impact fees developed and reviewed by the City will recover future development's proportionate share of City-related capital asset costs. Fees, as applied only to new development, represent future development's proportionate share of public services and facilities capital costs. It is important to note that impact fees may not be used to correct existing deficiencies, but may be used to pay for increased demand for public facilities or increased demand upon existing capital facilities provided that those facilities are needed to serve additional development and have the capacity to do so, given relevant level-of-service standards. The construction of public facilities to serve past, present, and probably future projects may be required, which could cause substantial adverse physical environmental impacts. The construction and operation of future public facilities required to serve cumulative development could potentially cause cumulatively significant impacts, but such physical impacts cannot be fully defined at this time because the exact facilities are not proposed or known. Any future public facility would undergo its own environmental review to determine physical environmental impacts once it is contemplated, and proposed for construction.

Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** cumulative impact relative to this environmental topic.

TRANSPORTATION AND CIRCULATION

This section considers the impacts of the Project within the context of long-term traffic conditions that may accompany the development of regional circulation system improvements and regional residential and non-residential development. See Section 3.13, Transportation and Circulation, for more information.

Impact 4.18: Under Cumulative conditions, the proposed Project would conflict with or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b) (Less than Significant)

Table 3.13-1 in Section 3.13 presents the established city-wide VMT and the Project generated VMT under baseline and cumulative conditions. VMT generated by the Project is compared to the baseline city-wide average VMT per employee. The proposed Project would result in a combination of net new, pass-by, and diverted vehicle trips and associated VMT per employee.

As shown in Table 3.13-1, under Existing (Baseline) Conditions, based on the type of Project that includes a combination of net new, pass-by, and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

The City's Adopted (September 2022) General Plan Update includes a substantial increase in both employment and retail land uses, which would allow residents to travel shorter distances to access jobs and local services without the need to travel outside of the City of Lathrop. To complement this increase in employment, the City of Lathrop General Plan also includes a substantial increase in residential projects (single-family and multi-family dwelling units) that would complement the employment and retail land uses by supplying workers (employees) and patrons (shoppers) to businesses. The improved jobs-housing balance under the cumulative scenario is consistent with the City's vision for future development of providing local services for a growing population.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed Project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be ***less than significant***.

Impact 4.19: Under Cumulative conditions, the proposed Project would not adversely affect transit, pedestrian or bicycle facilities (Less than Significant)

The proposed Project would not be expected to noticeably increase bus ridership. The Project would not disrupt or interfere with existing or planned public transit services or facilities. It would not create an inconsistency with policies concerning transit systems set forth in a General Plan or in the local plans.

A detailed review of the facility design of the safety improvement projects confirmed that the proposed Project would improve on the non-existent multi-modal facility by providing sidewalks along the Project frontage on Roth Road and Manthey Road. The City of Lathrop Bicycle Transportation Plan establishes the City's goals and objectives for bicycle travel. The Bicycle Transportation Plan also establishes standards for bicycle facilities and identifies planned bicycle

network facilities to address the City's bicycle needs. The Circulation Element developed as part of the General Plan contains Policy CIR-2.1 and Implementation Actions CIR-2a and CIR-2g, which support bicycle and pedestrian routes and facilities and creating an active transportation plan supporting the development and funding of bicycle and pedestrian networks.

The City of Lathrop is currently (as of August 2023) preparing an Active Transportation Plan that will identify pedestrian, bicycle and transit improvements in the vicinity of the proposed Singh Petroleum Investments Project site. Based on the location of the future active transportation facilities, Mitigation Measure 3.13-1 in Section 3.13 is recommended.

Overall, the Project would not interfere with the implementation of a planned bicycle facility, pedestrian facility, or transit service/facility. The Project, in combination with and past, present, and probable future projects, would not cause a degradation in transit service such that service does not meet performance standards established by the transit operator. The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the various General Plans within San Joaquin County), would not be expected to cause any significant cumulative pedestrian or bicycle facilities impacts. Cumulative impacts to pedestrian and bicycle facilities would be ***less than significant***.

UTILITIES

The cumulative setting includes all areas covered in the service areas of the City's wastewater system, water system, stormwater system, and the solid waste collection and disposal services. Under General Plan buildout conditions, the City would see an increased demand for water service, sewer service, solid waste disposal services, and stormwater infrastructure needs.

Impact 4.20: Cumulative Impact on Wastewater Utilities (Less than Significant)

Wastewater service is provided by Lathrop via their network of collection infrastructure and the Manteca Water Quality Control Facility (MWQCF) and the Lathrop Consolidated Treatment Facility (LCTF). In 2016, the City generated a total average annual flow of 1.46 mgd with 0.92 mgd treated at the MWQCF and 0.54 mgd treated at the LCTF as documented in the City's IWRMP.

The project applicant(s) will be required to install/connect and/or fund the necessary collection/transmission infrastructure to ensure the appropriate treatment of all wastewater.

The City of Lathrop owns 14.7% of the MWQCF capacity by contract with the City of Manteca. The City does not participate in the operation of the facility, nor does it receive recycled water from the facility. As discussed in the City's *Municipal Service Review and Sphere of Influence Plan*, and as listed in Table 3.14-1, the City is allocated 1.45 mgd of the total 9.87 mgd facility capacity. The MWQCF is permitted for future expansions of up to 26.97 mgd, of which the City would be allocated a maximum of 14.7% capacity or 3.97 mgd. Treatment at the MWQCF consists of primary sedimentation followed by roughing biotowers, conventional activated sludge, secondary clarification, tertiary filtration, and ultraviolet disinfection. Disinfected tertiary effluent is discharged to the San Joaquin River. A portion of the secondary effluent is not disinfected and is used to irrigate medians and agricultural fields.

Because each project coming on line is required to fund any capacity increase needed to treat its wastewater, and because the existing WDRs allow for substantial increases in capacity without any need for additional Regional Water Quality Control Board approvals, the cumulative impacts of the project, together with past, present, and probable future projects, are less than significant.

The Project by itself does not exceed the existing capacity of the wastewater treatment plant. The Project and any future cumulative projects would be required to secure adequate wastewater treatment capacity/allocation prior to occupancy of any building which would require wastewater treatment services. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

Impact 4.21: Cumulative Impact on Water Utilities (Less than Significant)

Water demand from past and present development and from agricultural production activities within the boundary of the groundwater basin has contributed to groundwater decline in the region. Future urban development within the groundwater basin has potential to increase groundwater pumping within the groundwater basin. However, where new urban development occurs on land in active agricultural use, the potential exists for urban uses to reduce demand for groundwater relative to agricultural uses, as urban uses often demand less water than is required for agricultural irrigation.

The proposed project would convert agricultural land to urban use. Commercial water use factors are based on the City's 2020 UWMP. According to the 2020 UWMP, commercial land uses demand 860 gallons per day per acre. Therefore, given that the proposed Project would develop approximately 19.63 acres, the estimated water demand for the proposed Project would be approximately 16,881.8 gallons of water per day (or 18.9 AFY).

Water demands for the proposed Project will be served using the City's existing portfolio of water supplies. As shown in Table 3.14-10 in Section 3.14, the City is projected to have adequate supplies to meet projected demands in multiple dry years through 2040. Adequate supplies are anticipated to be available to meet Project demands during the first, second and fifth year of drought at buildout. During the third and fourth year at buildout, the City's total water demand is estimated to exceed total supply by 314 AFY (2%).

There would be sufficient water resources available to provide supply for buildout of the cumulative scenario, so that no significant cumulative effect on the overall water supply would result. Implementation of the proposed Project would have a ***less than significant*** and ***less than cumulatively considerable*** impact relative to this topic.

Impact 4.22: Cumulative Impact on Stormwater Facilities (Less than Significant)

Past, pending, and probable future development projects in the area could result in additional discharges of stormwater during storm events. When combined, these future development projects could, in theory, could lead to an incremental increase in peak stormwater runoff and potential incremental increases in downstream flood elevations. However, these past, pending, and probable future development projects in the area would be subject to the Multi-Agency Post-

Construction Stormwater Standards Manual, the City's Stormwater Management and Discharge Control Ordinance (Chapter 13.28 of the Code), and the City's Impact Fee Ordinance (Chapter 3.20 of the Code) as applicable.

The proposed Project includes storm drainage improvements. Onsite storm drainage would be installed to serve the proposed Project. Stormwater generated on this new impervious surface would be routed through on-site pipes to the proposed drainage retention basin located in the southern portion of the Project site. The drainage retention basin has been sized to accommodate runoff from a 100-year, 24-hour storm event. According to the Phase II Pond Volume Calculations prepared for the Project (Wong Engineers, Inc., September 2022), the pond is designed to take 200 percent of the required volume. Per the engineering design, 100 percent of the volume would percolate within 25 hours and 39 hours, which meets the requirement of maximum detention of 48 hours.

The proposed storm drain system will include water quality features designed in conformance with the standards of the Regional Water Quality Control Board for the Central Valley Region and the City of Lathrop. Stormwater regulations for construction projects using Best Management Practices will be incorporated into the design.

The proposed Project, when considered alongside all past, present, and probable future projects (inclusive of buildout of the Lathrop General Plan), would not be expected to cause any significant cumulative stormwater impacts. The proposed Project would not have cumulatively considerable impacts associated with stormwater. Implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** impact relative to this topic.

Impact 4.23: Cumulative Impact on Solid Waste Facilities (Less than Significant)

The cumulative context for cumulative impacts on solid waste facilities includes the Republic Services service area.

Solid waste generated in the City is disposed at the Forward Landfill. The permitted maximum disposal at the Forward Landfill is 8,668 tons per day. According to the City of Lathrop General Plan EIR, the Forward Landfill has a cease operation date of 2039 and has sufficient capacity to serve the City of Lathrop. Forward Landfill has a remaining landfill capacity of over 22,100,000 tons, and has a current maximum permitted throughput of 8,668 tons per day. The Forward Landfill has a total maximum capacity of 59,160,000 cubic yards. The landfill has a permitted traffic volume of 620 vehicles per day.

According to the City of Lathrop General Plan EIR, if the Forward Landfill were to close in 2039, the City can potentially utilize other landfills such as the Foothill Landfill and the North County Landfill, as locations for solid waste disposal. The permitted maximum disposal at the Foothill Landfill is 1,500 tons per day and the North County Landfill is 825 tons per day. The remaining capacity of these landfills include 125 million cubic yards of solid waste at the Foothill Landfill, with an

estimated cease operation date of 2054, and 35.4 million cubic yards of solid waste at the North County Landfill, which has an estimated cease operation date of 2035.

Solid waste generated by the proposed Project was estimated based on CalRecycle generation rates.[1] The commercial uses are estimated to generate approximately 5 pounds per day per 1,000 square feet. It is estimated that the 30,514 square feet of commercial space would generate 152.6 pounds per day of solid waste. The total annual solid waste generated by the proposed project is estimated to be 5,699 pounds per year (2.8 tons per day). The addition of the volume of solid waste associated with the proposed Project would not exceed the Forward Landfill's remaining capacity.

The proposed Project would be required to comply with applicable state and local requirements including those pertaining to solid waste, construction waste diversion, and recycling. In conclusion, implementation of the proposed Project, in combination with and past, present, and probable future projects, would have a ***less than significant*** cumulative impact relative to this environmental topic.

4.2 SIGNIFICANT IRREVERSIBLE EFFECTS

LEGAL CONSIDERATIONS

EIRs for certain kinds of projects, as set forth in CEQA Guidelines section 15127, must discuss significant irreversible environmental changes. These projects include those involving (i) the adoption, amendment, or enactment of a plan, policy, or ordinance of a public agency, (ii) the adoption by a Local Agency Formation Commission of a resolution making determinations, or (iii) the parallel preparation of an environmental impact statement under the federal National Environmental Policy Act.

Here, the proposed Project falls into two of these categories, in that it requires the adoption or amendments of plans, policies, and ordinances, and will require actions and determinations by the San Joaquin LAFCO. Irreversible environmental effects are described as:

- The project would involve a large commitment of nonrenewable resources;
- The primary and secondary impacts of a project would generally commit future generations to similar uses (e.g., a highway provides access to previously remote area);
- The project involves uses in which irreversible damage could result from any potential environmental accidents associated with the project; or
- The phasing of the proposed consumption of resources is not justified (e.g., the project involves the wasteful use of energy).

Determining whether the proposed Project would result in significant irreversible effects requires a determination of whether key resources would be degraded or destroyed such that there would

[1] Available at: https://www2.calrecycle.ca.gov/wastecharacterization/general/rates

be little possibility of restoring them. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

Analysis

Implementation of the proposed Project would result in the conversion of land currently used for agricultural and rural residential uses for the development of commercial uses. Development of the proposed Project would constitute a long-term commitment to these uses. It is unlikely that circumstances would arise that would justify the return of the land to its original condition as agricultural or vacant rural land.

A variety of resources, including land, energy, water, construction materials, and human resources, would be irretrievably committed for the initial construction, infrastructure installation and connection to existing utilities, and their continued maintenance. Construction of the proposed Project would require the commitment of a variety of other non-renewable or slowly renewable natural resources such as lumber and other forest products, sand and gravel, asphalt, petrochemicals, and metals.

Additionally, a variety of resources would be committed to the ongoing operation and life of the proposed Project. The introduction of commercial uses to the Project site will result in an increase in area traffic over existing conditions. Fossil fuels are the principal source of energy and the proposed Project will increase consumption of available supplies, including gasoline and diesel. These energy resource demands relate to initial Project construction, Project operation and site maintenance and the transport of people and goods to and from the Project site.

4.3 SIGNIFICANT AND UNAVOIDABLE IMPACTS

CEQA Guidelines Section 15126.2(b) requires an EIR to discuss unavoidable significant environmental effects, including those that can be mitigated but not reduced to a level of insignificance. The following significant and unavoidable impacts of the proposed Project are discussed in Sections 3.1 through 3.14 and previously in this chapter (cumulative-level). Refer to those discussions for further details and analysis of the significant and unavoidable impact identified below:

- Impact 3.3-1: Project operation could conflict with or obstruct implementation of the District's air quality plan
- Impact 3.3-3: The proposed Project could expose sensitive receptors to substantial pollutant concentrations
- Impact 4.5: Cumulative Impact on the Region's Air Quality

4.4 GROWTH-INDUCING IMPACTS

Section 15126.2(d) of the CEQA Guidelines requires an EIR to "discuss the ways in which the project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects which

would remove obstacles to population growth...” In general terms, a project may result in a significant growth inducing impact if it individually or cumulatively with other projects results in any of the actions described in the following examples:

- The project removes an obstacle to growth, such as: the establishment of an essential public service, the provision of new access to an area, or a change in zoning or general plan designation.
- The project results in economic expansion, population growth or the construction of additional housing occurs in the surrounding environment in response to the project, either directly or indirectly.

Existing storm drain, sewer, water, and gas lines/pipes are currently located along Roth Road and Harlan Road. The Project would be served by existing sewer, water and other utility services that have been established on the Project site and in the Project area. The existing utility lines/pipes along Harlan Road would be extended to serve the proposed Project. The proposed utility infrastructure would serve the proposed Project only. Access to the Project would be provided by proposed access points along the existing roads in the vicinity. Therefore, the proposed Project would not require an extension of public services that have the potential to result in or facilitate unplanned growth in the Project area.

Although Manthey Road would be realigned in the future, and Phase II of the proposed Project would accommodate the realignment, the realignment is not a direct result of the proposed Project. Instead, the realignment would occur with or without the proposed Project as part of the Roth Road / I-5 Interchange improvements.

The proposed Project would provide employment opportunities for City and County residents on a site that has been planned for development of freeway commercial uses by the City of Lathrop General Plan and associated EIR. Overall, the additional commercial uses in the City would not have the long-term effect of inducing population growth.

The Project would result in an increase in employment opportunities by creating full-time and part-time job positions. The Project would also generate short-term construction employment opportunities, but these opportunities would not result in substantial population growth in the project region. Therefore, the proposed Project would not result in significant growth inducing impacts.

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5.1 CEQA REQUIREMENTS

The California Environmental Quality Act (CEQA) requires that an Environmental Impact Report (EIR) analyze a reasonable range of feasible alternatives that would feasibly attain most of the basic objectives of the project while reducing or avoiding one or more significant environmental effects of the project. The range of alternatives required in an EIR is governed by a "rule of reason" that requires an EIR to set forth only those alternatives necessary to permit a reasoned choice (CEQA Guidelines Section 15126.6[f]). Where a potential alternative was examined but not chosen as one of the range of alternatives, the CEQA Guidelines require that the EIR briefly discuss the reasons the alternative was dismissed.

Alternatives that are evaluated in the EIR must be potentially feasible alternatives. However, not all possible alternatives need to be analyzed. An EIR must "set forth only those alternatives necessary to permit a reasoned choice." (CEQA Guidelines, Section 15126.6(f).) The CEQA Guidelines provide a definition for a "range of reasonable alternatives" and, thus limit the number and type of alternatives that need to be evaluated in an EIR.

First and foremost, alternatives in an EIR must be potentially feasible. In the context of CEQA, "feasible" is defined as:

> *… capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social and technological factors.* (CEQA Guidelines 15364)

The inclusion of an alternative in an EIR is not evidence that it is feasible as a matter of law, but rather reflects the judgment of lead agency staff that the alternative is potentially feasible. The final determination of actual feasibility will be made by the lead agency decision-making body through the adoption of CEQA Findings at the time of action on the Project. (*California Native Plant Society v. City of Santa Cruz* (2009) 177 Cal.App.4th 957, 999-1001 (*CNPS*); *Mira Mar Mobile Community v. City of Oceanside* (2004) 119 Cal.App.4th 477, 489; see also CEQA Guidelines, §§ 15091(a)) (3) [findings requirement, where alternatives can be rejected as infeasible]; 15126.6 [([an EIR] must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation"].) The following factors may be taken into consideration in the assessment of the feasibility of alternatives: site suitability, economic viability, availability of infrastructure, general plan consistency, other plan or regulatory limitations, jurisdictional boundaries, and the ability of the proponent to attain site control (Section 15126.6 (f) (1)).

In addition, agency decisionmakers, in assessing actual feasibility, may legitimately consider whether particular alternatives, compared with a proposed project, represent an undesirable balance of competing policy considerations or fail to attain project objectives to the same degree as a proposed project. (See *City of Del Mar v. City of San Diego* (1982) 133 Cal.App.3d 410, 417 ["'feasibility' under CEQA encompasses 'desirability' to the extent that desirability is based on a reasonable balancing of the relevant economic, environmental, social, and technological factors"];

CNPS, *supra*, 177 Cal.App.4th at p. 1001[same]; *San Diego Citizenry Group v. County of San Diego* (2013) 219 Cal.App.4th 1, 17 [same]; *Sierra Club v. County of Napa* (2004) 121 Cal.App.4th 1490, 1506-1509 [upholding CEQA findings rejecting alternatives in reliance on applicant's project objectives]; *Citizens for Open Government v. City of Lodi* (2012) 296 Cal.App.4th 296, 314-315 [court upholds agency action where alternative selected "entirely fulfill" a particular project objective and "would be 'substantially less effective' in meeting" the lead agency's "goals"]; and *In re Bay-Delta Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165, 1166 (Bay-Delta) ["feasibility is strongly linked to achievement of each of the primary program objectives"; "a lead agency may structure its EIR alternative analysis around a reasonable definition of underlying purpose and need not study alternatives that cannot achieve that basic goal"].)

Special considerations come into play where a project proposes housing. Government Code section 65589.5, subdivision (j), provides that "[w]hen a proposed housing development project complies with applicable, objective general plan, zoning, and subdivision standards and criteria, including design review standards, in effect at the time that the application was deemed complete," the local lead agency may not "disapprove the project or … impose a condition that the project be developed at a lower density" unless the agency can issue "written findings supported by a preponderance of the evidence on the record" both (a) that "[t]he housing development project would have a specific, adverse impact upon the public health or safety unless the project is disapproved or approved upon the condition that the project be developed at a lower density" and (b) that "[t]here is no feasible method to satisfactorily mitigate or avoid the adverse impact" on public health and safety "other than the disapproval of the housing development project or the approval of the project upon the condition that it be developed at a lower density." In this context, "a "specific, adverse impact" means a significant, quantifiable, direct, and unavoidable impact, based on objective, identified written public health or safety standards, policies, or conditions as they existed on the date the application was deemed complete."

An earlier version of section 65589.5, subdivision (j), came into play in *Sequoyah Hills Homeowners Assn. v. City of Oakland* (1993) 23 Cal.App.4th 704, 715-716. In that case, the court upheld a lead agency decision making body's rejection, in findings adopted at the time of project approval, of an EIR alternative that would have provided fewer housing units than the proposed project. The city council found the alternative to be infeasible because it "would defeat the project objective of providing the 'the least expensive single-family housing for the vicinity.'" This conclusion was supported by market surveys indicating that the houses constructed under the alternative "would be necessarily more expensive than those of the proposed project." The court also invoked Government Code section 65589.5, subdivision (j), noting that the city council found that there was no substantial evidence that the proposed project would cause any public health or safety impact, and that the agency's record contained no evidence any such impact. The court agreed with the respondent agency that "this enactment is not a legislative will-o'-the-wisp" but rather "is based on a legislative finding that 'The lack of affordable housing is a critical problem which threatens the economic, environmental, and social quality of life in California.'"

In considering the approval of a proposed housing project, local agency decisionmakers must also be cognizant of Government Code section 66300, created by Senate Bill 330 from 2019 (also known as the Housing Crisis Act of 2019). Subdivision (b)(1)(A) of section 66300 generally prevents a city from changing an existing residential general plan, specific plan, and zoning designation predating January 1, 2018, to "a less intensive use" or to reduce the intensity of the designation below what was allowed on January 1, 2018. An exception to this prohibition exists, however, where the city "concurrently changes the development standards, policies, and conditions applicable to other parcels within the jurisdiction to ensure that there is *no net loss* in residential capacity." (Gov. Code, § 65300 (h)(2)(i)(1) [italics added].)

Finally, a third statute that limits agencies' discretion to reduce the densities of proposed housing projects is Public Resources Code section 21159.26, which states that, "[w]ith respect to a project that includes a housing development, a public agency may not reduce the proposed number of housing units as a mitigation measure or project alternative for a particular significant effect on the environment if it determines that there is another feasible specific mitigation measure or project alternative that would provide a comparable level of mitigation."

Equally important to the formulation of a reasonable range of alternatives in an EIR is the need for alternatives to substantially lessen one or more of the significant effects of a proposed project. Although the law does not require agencies to exclusively focus in this context on the significant unavoidable effects of a proposed project, doing so is certainly an effective way to meet this requirement. Here, the following significant and unavoidable impacts of the proposed Project are discussed in Sections 3.1 through 3.3 (project-level) and Chapter 4.0 (cumulative-level):

- Impact 3.3-1: Project operation could conflict with or obstruct implementation of the District's air quality plan
- Impact 3.3-3: The proposed Project could expose sensitive receptors to substantial pollutant concentrations
- Impact 4.5: Cumulative Impact on the Region's Air Quality

The following analysis of alternatives focuses on significant impacts of the proposed Project, including both those that can be mitigated to a less-than-significant level and those that would remain significant even if mitigation is applied or for which no feasible mitigation is available.

A Notice of Preparation (NOP) was circulated to the public to solicit recommendations for a reasonable range of alternatives to the proposed project. Additionally, a public scoping meeting was held during the public review period to solicit recommendations for a reasonable range of alternatives to the proposed project. No specific alternatives were recommended by commenting agencies or the general public during the NOP public review process.

PROJECT OBJECTIVES

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses.

Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

The proposed Project identifies the following objectives:

- To develop a property of sufficient size to accommodate all of the following: a travel center that consists of a truck and auto repair shop, convenience store, adjoining fast food restaurants, restrooms, and auto and truck fuel dispensing area able to accommodate cars and semi-trucks per day;
- To provide visitor-serving facilities that maximize the benefits of the Project site's proximity to I-5 for all buildings and tenants and thereby minimize traffic generation on local streets by visitors exiting and reentering the freeway;
- To construct a facility with access to adequate existing or anticipated utility infrastructure to support planned operations;
- To accommodate the planned Roth Road / I-5 interchange improvements and realignment of Manthey Road;
- To create new jobs that can be filled wholly or partly by local residents; and
- To maximize tax revenues to the City of Lathrop.

5.2 ALTERNATIVES CONSIDERED IN THIS EIR

Four alternatives to the proposed Project were developed based on input from City staff, and the technical analysis performed to identify the environmental effects of the proposed Project. The alternatives analyzed in this EIR include the following four alternatives in addition to the proposed Project:

- **No Project (No Build) Alternative**: Under this alternative, development of the Project site would not occur, and the Project site would remain in its current existing condition.
- **Reduced Project Size and Intensity Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would reduce the project size and overall intensity of commercial activity and circulation patterns. Changes include: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I.
- **Revised Circulation Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road.

- **Phase II Only Alternative:** Under this alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the Phase I circulation, access and parking portions of the plan would not be approved. Changes include: 1) eliminating Phase I circulation, access and parking from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II.

NO PROJECT (NO BUILD) ALTERNATIVE

Under the No Project (No Build) Alternative development of the Project site would not occur, and the Project site would remain in its current existing condition. The Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), a foundation from a previously demolished abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf. Under this alternative, the Project site would not be annexed to the City and would remain subject to County planning indefinitely. The San Joaquin County General Plan designates the Project site as Agriculture/General (A/G) by the San Joaquin County General Plan Land Use Map.

It is noted that this alternative would fail to meet the majority of the Project objectives.

See Figure 5.0-1.

REDUCED PROJECT SIZE AND INTENSITY ALTERNATIVE

Under the Reduced Project Size and Intensity Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would reduce the project size and overall intensity of commercial activity and circulation patterns. Changes include: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I.

Under this alternative, the Project site would decrease from 22.42 acres to 19.42 acres, with the excess three acres remaining in its current condition. The excess three acres would provide an additional buffer between the residence at 11401 Manthey Road and the proposed uses under this alternative under Phase I. The Phase I interim site access under this alternative would be shifted to the north, which would shift traffic away from the residence at 11401 Manthey Road. These modifications are intended to reduce air quality, noise, and traffic impacts to neighboring properties, by reducing commercial intensity and changing the circulation patterns. Similar to the

proposed Project, the circulation improvements for this alternative would be altered during Phase II once Manthey Road is realigned.

It is noted that this alternative would fail to meet all of the Project objectives.

See Figure 5.0-2.

REVISED CIRCULATION ALTERNATIVE

Under the Revised Circulation Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road. This alternative is like the Reduced Project Size and Intensity Alternative, except that it does not eliminate three acres from the footprint of the Project and it also adds the extension of Roth Road with ingress/egress to the Project site.

Under this alternative, the Phase I interim site access would be shifted to the north, which would shift traffic away from the residence at 11401 Manthey Road. Additionally, Roth Road would be extended further west under Phase I, adding a truck ingress/egress to the Project site which would reduce the use of the Manthey Road by trucks during Phase I. These modifications are intended to reduce air quality, noise, and traffic impacts to neighboring properties, by changing the circulation patterns for truck traffic during Phase I. Like the proposed Project, the circulation improvements for this alternative would be altered during Phase II once Manthey Road is realigned.

It is noted that this alternative would fail to meet all of the Project objectives.

See Figure 5.0-3.

PHASE II ONLY ALTERNATIVE

Under the Phase II Only Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the circulation, access and parking Phase I portions of the plan would not be approved. Changes include: 1) eliminating Phase I from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II.

Under this alternative the defined Phase II would be fully constructed. This includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. Because no new buildings are

proposed as part of the Phase II development, all buildings constructed in Phase I would be constructed as part of this alternative as a first and only phase. Also, because there would be no interim improvements, there would be no removal of any interim circulation-related improvements. These modifications are intended to reduce air quality, noise, and traffic impacts to neighboring properties, by changing the circulation patterns.

It is noted that this alternative would fail to meet all of the Project objectives.

See Figure 5.0-4.

5.3 ENVIRONMENTAL ANALYSIS

The alternatives analysis provides a summary of the relative impact level of significance associated with each alternative for each of the environmental issue areas analyzed in this EIR. Following the analysis of each alternative, Table 5.0-1 summarizes the comparative effects of each alternative.

NO PROJECT (NO BUILD) ALTERNATIVE

Aesthetics and Visual Resources

The No Project (No Build) Alternative would leave the Project site in its existing agricultural state and would not result in increases in daytime glare or nighttime lighting. The visual character of the Project site would not change under this alternative compared to existing conditions.

The No Project (No Build) Alternative would avoid the impacts related to aesthetics which would result from the proposed Project altogether. As such, this impact would be reduced when compared to the proposed Project.

Agricultural Resources

The No Project (No Build) Alternative would not result in development of the Project site and agricultural uses could be introduced to the site. As such, this alternative would have no impact on agricultural land, no potential for conflicts with existing agricultural resources, and no potential for conflict with regulations and plans intended to protect those resources. As such, this impact would be reduced when compared to the proposed Project.

Air Quality

Under the No Project (No Build) Alternative, the Project site would not be developed. As described previously within this EIR (Chapter 2.0: Project Description), the Project site is comprised of flat land with ruderal grasses, fallow ground, several trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 sf and the impervious area is approximately 2,500 sf. Criteria air pollutant emissions are not currently generated on-site.

Under the No Project (No Build) Alternative, there would be no net change in current levels of emissions and no potential for a conflict with any adopted plans or policies related to air quality. As such, this impact would be reduced when compared to the proposed Project.

Biological Resources

Under the No Project (No Build) Alternative, the proposed Project would not be constructed and no habitat would be removed. Zero acres of habitat would be converted under this alternative. Overall, this impact would be reduced when compared to the proposed Project.

Cultural and Tribal Resources

The No Project (No Build) Alternative would result in no additional ground disturbing activities beyond those associated with the occasional mowing of the ruderal grasses on-site. The ground disturbance associated with the occasional mowing would not have the potential to disturb or destroy cultural, tribal, historic, and archaeological resources, or paleontological resources, because the depth of disturbance under the No Project (No Build) Alternative would be significantly less compared to the depths required for utility placement, grading, and overall construction activities associated with the proposed project. While the proposed Project is not anticipated to result in significant impacts to cultural or tribal resources with mitigation, the No Project (No Build) Alternative would result in less potential for impacts to cultural and tribal resources as the entire Project site would continue to be used for agriculture production. As such, this impact would be reduced when compared to the proposed Project.

Geology and Soils

The No Project (No Build) Alternative would result in the Project site remaining in its existing condition. There are no structures subject to seismic or geologic risks, including earthquakes, liquefaction, subsidence, etc. The No Project (No Build) Alternative would not involve new construction that could be subject to seismic, geologic or soils hazards, thus this alternative would have no potential for impact. As such, this impact would be reduced when compared to the proposed Project.

Greenhouse Gases, Climate Change, and Energy

Under the No Project (No Build) Alternative, the Project site would not be developed. Emissions are not currently generated on-site. Under the No Project (No Build) Alternative, there would be no net change in emissions and no potential for a conflict with any adopted plans or policies related to air quality. As such, this impact would be reduced when compared to the proposed Project.

Hazards and Hazardous Materials

Under the No Project (No Build) Alternative, no new land uses would be introduced to the Project site. Additionally, hazardous materials that are currently stored on site would continue to be stored. Because new land uses or significant ground disturbance (outside of the normal agricultural operations) would not occur under this alternative, the potential for hazardous material release on the Project site would be eliminated. For all of these reasons, this impact would be reduced when compared to the proposed Project.

Hydrology and Water Quality

Under the No Project (No Build) Alternative, potential water quality impacts from construction and operation of the proposed Project would be eliminated. While groundwater recharge is not considered a significant impact under the proposed Project, under this alternative, the land will be kept in its present state with the majority of the Project site being used for agricultural purposes. The Project Area has soils with hydrologic ratings of "A" and "C". Group "A" soils have low runoff potential when thoroughly wet, and Group "C" soils have moderately high runoff potential when thoroughly wet.

Surface water pollution is also caused by erosion resulting from agricultural operations. Excessive and improperly managed grading, vegetation removal, quarrying, logging, and agricultural practices all lead to increased erosion of exposed earth and sedimentation of watercourses during rainy periods. In slower moving water bodies these same factors often cause a buildup of siltation, which ultimately reduces the capacity of the water system to percolate and recharge groundwater basins, as well as adversely affecting both aquatic resources and flood control efforts.

The No Project (No Build) Alternative would have a greater chance of groundwater recharge because it would not introduce large areas of impervious surfaces as would the proposed Project. Overall, potential impacts related to hydrology and water quality would be reduced under the No Project (No Build) Alternative when compared to the proposed Project.

Land Use

The No Project (No Build) Alternative would not result in changes to on-site land uses and would not result in development of the site. Under this alternative, the Project site would not be annexed to the City and would remain subject to County planning indefinitely. The existing uses are consistent with the existing County land use designation. Because the No Project (No Build) Alternative would not change land use patterns, impacts related to land use would be reduced when compared to the proposed Project.

Noise

Under the No Project (No Build) Alternative, the Project site would not be developed and there would be no potential for new noise sources. As such, this impact would be reduced when compared to the proposed Project.

Public Services and Recreation

Under the No Project (No Build) Alternative, the Project site would remain undeveloped and there would be no increased demand for public services or recreation. The No Project (No Build) Alternative would have a reduced impact when compared to the proposed Project because demand on public services and recreation would be reduced with compared to the proposed Project.

Transportation and Circulation

Table 3.13-1 in Section 3.13 presents the established city-wide vehicle-miles-traveled (VMT) and the Project generated VMT under baseline and cumulative conditions. VMT generated by the Project is compared to the baseline city-wide average VMT per employee. The proposed Project would result in a combination of net new, pass-by, and diverted vehicle trips and associated VMT per employee. As shown in Table 3.13-1, under Existing (Baseline) Conditions, based on the type of Project that includes a combination of net new, pass-by, and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average. Additionally, the Project would not interfere with the implementation of a planned bicycle facility, pedestrian facility, or transit service/facility.

Under the No Project (No Build) Alternative, no vehicle trips would be generated and, as such, the impacts related to vehicle-miles-traveled (VMT) would be avoided. The No Project (No Build) Alternative would have a reduced traffic impact when compared to the proposed Project.

Utilities

Under the No Project (No Build) Alternative, the Project site would not increase the demand for any utilities, including wastewater services, potable water supplies, or solid waste disposal. There would be no need to construct stormwater drainage infrastructure. Overall, the demand for utilities would be reduced under the No Project (No Build) Alternative when compared to the proposed Project.

REDUCED PROJECT SIZE AND INTENSITY ALTERNATIVE

Aesthetics and Visual Resources

The impacts related to changes to the visual character would be similar with the Reduced Project Size and Intensity Alternative as this alternative is located on the same site and would have similar uses. This alternative would result in a reduced amount of development, a slightly reduced development footprint, and the same types of commercial/retail uses. The impacts of light and glare would still occur. The impacts to the existing visual quality would be similar to the proposed Project as the majority of the Project site would be developed with the same uses as under the proposed Project, just at a reduced density. However, under this alternative, the Project site would decrease from 22.42 acres to 19.42 acres, with the excess three acres remaining in its current condition. The excess three acres would provide additional buffer between the residence at 11401 Manthey Road and the proposed uses under this alternative under Phase I. In addition to an air emissions buffer, this buffer could alleviate aesthetics impacts to the adjacent residence. As such, the Reduced Project Size and Intensity Alternative would have a slightly reduced impact on visual resources when compared to the proposed Project.

Agricultural Resources

Under the Reduced Project Size and Intensity Alternative, the total development footprint would be reduced by three acres compared to the proposed project. As such, a slightly reduced amount of the Project site would be converted from agricultural use to urban use. As such, this alternative

would have slightly reduced impacts to agricultural lands when compared to the proposed Project. Overall, the Reduced Project Size and Intensity Alternative would have slightly reduced impacts on agricultural resources when compared to the proposed Project.

Air Quality

Under the Reduced Project Size and Intensity Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would reduce the project size and overall intensity of commercial activity and circulation patterns. Changes include: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I. Additionally, the Project site would decrease from 22.42 acres to 19.42 acres, with the excess three acres remaining in its current condition. The excess three acres would provide additional buffer between the residence at 11401 Manthey Road and the proposed uses under this alternative under Phase I.

Because construction emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be slightly reduced under this alternative when compared to the proposed Project.

The total operational development, including the fueling stations and building square footage, would be reduced compared to the proposed Project. Trip generation is calculated using a trip generation rate and development size (i.e., number of fueling stations and building square footage). Therefore, the amount of traffic generated from the Project site would be reduced under this alternative compared to the proposed Project. Mobile source air emissions are directly correlated to traffic volume; therefore, it is estimated that the decreased trip volume would result in an decreased amount of the mobile source emissions. Because the drive-thru quick service restaurant would be eliminated, the emissions resulting from vehicle idling would be reduced under this alternative. Additionally, the excess three acres that would not be developed under this alternative would provide additional buffer between the residence at 11401 Manthey Road and the proposed uses under this alternative under Phase I. This would further reduce emissions of toxic air contaminants in the vicinity of this existing residence.

Overall, the Reduced Project Size and Intensity Alternative would result in reduced air emissions when compared to the proposed Project.

Biological Resources

The Reduced Project Size and Intensity Alternative would result in development of three fewer acres than the proposed project and the intensity of the developed uses would be decreased. Under this alternative, the Project site would decrease from 22.42 acres to 19.42 acres, with the excess three acres remaining in its current condition. The increase in undeveloped areas could continue to provide habitat (i.e., trees and grass fields) for species. As such, the Reduced Project

Size and Intensity Alternative would result in reduced impacts to biological resources when compared to the proposed Project.

Cultural and Tribal Resources

The Reduced Project Size and Intensity Alternative would result in development of three fewer acres than the proposed project and the intensity of the developed uses would be decreased. Under this alternative, the Project site would decrease from 22.42 acres to 19.42 acres, with the excess three acres remaining in its current condition. This would result in a slightly reduced potential to disturb or destroy cultural, tribal, historic, and archaeological resources. The proposed Project is not anticipated to result in significant impacts to cultural resources with mitigation; the Reduced Project Size and Intensity Alternative would result in slightly reduced potential for impacts to cultural resources.

Geology and Soils

Under the Reduced Project Size and Intensity Alternative, the amount of developed area would be reduced by three acres compared to the Project, and a reduced amount of developed uses would be subject to hazardous geological conditions. Because this alternative would have a slightly reduced disturbance area compared to the proposed Project, this alternative would result in a slightly reduced potential for loss of topsoil and soil erosion compared to the Project. The proposed Project is not anticipated to result in significant impacts from geology and soils with mitigation; the Reduced Project Size and Intensity Alternative would result in a slightly reduced potential for impacts related to geology and soils when compared to the proposed Project.

Greenhouse Gases, Climate Change, and Energy

Under the Reduced Project Size and Intensity Alternative, the Project site would be developed with the same types of uses and structures as the proposed Project, but the intensity would decrease and the amount of developed area would decrease by three acres. As noted previously, the amount of traffic generated from the Project site would be reduced under this alternative compared to the proposed Project. The decreased traffic would result in a decrease in mobile emissions.

The decreased intensity in developed uses would result in a decreased level of operational greenhouse gas emissions when compared to the proposed Project. Because construction greenhouse gas emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be slightly reduced under this alternative when compared to the proposed Project. As such, the greenhouse gas emissions impact would be reduced when compared to the proposed Project.

Hazards and Hazardous Materials

Under the Reduced Project Size and Intensity Alternative, the types of uses on the site would not change when compared to the proposed Project, but the intensity would decrease. This alternative would still use the hazardous materials identified under the proposed Project. As such, this

alternative would have equal impacts from hazards and hazardous materials impacts when compared to the proposed Project.

Hydrology and Water Quality

Under the Reduced Project Size and Intensity Alternative, potential construction-related and long-term operational impacts to water quality or waste discharge related to stormwater runoff would be comparable to the proposed Project. However, this alternative would decrease the amount of developed area compared to the proposed Project by three acres. The slight decrease in development area under this alternative would remain pervious to precipitation, which would facilitate groundwater recharge and the natural biofiltration of stormwater. This alternative would still include stormwater detention/basins, and provide natural BMPs to reduce pollutants in stormwater runoff. As such, potential impacts related to hydrology and water quality would be slightly reduced under the Reduced Project Size and Intensity Alternative when compared to the proposed Project.

Land Use

Under this alternative, the Project site would be annexed to the City and would remain subject to the same City land use regulations as the project. The Reduced Project Size and Intensity Alternative would require the same land use entitlements as the proposed project. Because the types of uses would be the same as the project, the land use impacts would be the same as the project. Therefore, impacts relating to land use would be equal under this alternative.

Noise

The Reduced Project Size and Intensity Alternative would result in the same type of uses as the project, but the intensity would be reduced compared to the Project; therefore, the vehicular and operational noise impacts associated with this alternative would be reduced compared to the proposed Project. All noise issues would be mitigated, as appropriate, through noise attenuation and best management practices; therefore, under this alternative, noise impacts would be reduced when compared to the proposed Project.

Public Services and Recreation

Under the Reduced Project Size and Intensity Alternative, the majority of the site would be developed with the same types of uses as described in the Project Description, but the size and intensity of the buildings and uses would be reduced. Due to the similar type of uses, the demand for fire protection, police protection, schools, and recreational facilities would be similar to the Project. As such, public services and recreation impacts would be equal when compared to the proposed Project.

Transportation and Circulation

Under the Reduced Project Size and Intensity Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would reduce the project size and overall intensity of commercial activity and circulation patterns.

Changes include: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I. Due to the reduced number of fueling stations, reduction in building size, and elimination of the drive-thru quick service restaurant, the amount of traffic generated from the Project site, and thus total VMT, would be reduced under this alternative. It is also noted that the changes in the site access points under this alternative could reduce potential impacts related to visibility and hazards to pedestrians identified under the proposed project. Overall, under this alternative, transportation and circulation impacts would be reduced when compared to the proposed Project.

Utilities

Under the Reduced Project Size and Intensity Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the following changes would occur: 1) reducing the number of truck and automobile fueling stations by four stations (elimination of two truck and two automobile stations), 2) reducing the 16,688-sf building to 13,000-sf, 3) eliminating the drive-thru quick service restaurant, 4) eliminating one of the proposed dog runs, and 5) shifting the interim site access on Manthey Road to the north under Phase I. Because this alternative would decrease the amount of fueling stations and building square footage compared to the proposed Project, the associated solid waste generation would decrease. As such, solid waste generation from this alternative would decrease.

Water demand and wastewater generation factors are based on building sizes and urban intensity. Similar to solid waste, because this alternative would decrease the amount of fueling stations and building square footage compared to the proposed Project, the associated water demand and wastewater generation would decrease. As such, the water demand and wastewater generation would be reduced compared to the proposed Project.

Overall, this alternative would have decreased wastewater treatment demand, water demand, and solid waste generated.

REVISED CIRCULATION ALTERNATIVE

Aesthetics and Visual Resources

The impacts related to changes to the visual character would be similar with the Revised Circulation Alternative as this alternative is located on the same site, would have similar uses, and would have the same size development area. The impacts of light and glare would still occur. The impacts to the existing visual quality would be similar to the proposed Project as the majority of the Project site would be developed with the same uses as under the proposed Project, just with a reduced building size and shifted site access points. Overall, the Revised Circulation Alternative would have an equal impact on visual resources when compared to the proposed Project.

Agricultural Resources

Under the Revised Circulation Alternative, the total development footprint would be equal to the proposed project. As such, an equal amount of the Project site would be converted from agricultural use to urban use. Overall, the Revised Circulation Alternative would have equal impacts on agricultural resources when compared to the proposed Project.

Air Quality

Under the Revised Circulation Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road. This alternative is like the Reduced Project Size and Intensity Alternative, except that it does not eliminate three acres from the footprint of the Project and it also adds the extension of Roth Road with ingress/egress to the Project site.

Because construction emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be equal under this alternative when compared to the proposed Project.

The total operational development would be similar compared to the proposed Project, but the 16,688-sf building would be reduced to 13,000-sf and the drive-thru quick service restaurant would be removed. Trip generation is calculated using a trip generation rate and development size (i.e., building square footage). Therefore, the amount of traffic generated from the Project site would be slightly reduced under this alternative compared to the proposed Project. Mobile source air emissions are directly correlated to traffic volume; therefore, it is estimated that the slightly decreased trip volume would result in a slightly decreased amount of the mobile source emissions. Because the drive-thru quick service restaurant would be eliminated, the emissions resulting from vehicle idling would be reduced under this alternative. Additionally, the Phase I interim site access would be shifted to the north, which would shift traffic away from the residence at 11401 Manthey Road. As such, this alternative would increase the distance between the residence at 11401 Manthey Road and the automobile and truck access area under this alternative under Phase I. This would further reduce emissions of toxic air contaminants in the vicinity of this existing residence.

Overall, the Revised Circulation Alternative would result in reduced air emissions when compared to the proposed Project.

Biological Resources

The Revised Circulation Alternative would result in development of the same site as the proposed project. Under this alternative, all habitat (i.e., trees and grass fields) for species would be converted from rural to urban, similar to the proposed Project. As such, the Revised Circulation

Alternative would result in equal impacts to biological resources when compared to the proposed Project.

Cultural and Tribal Resources

The Revised Circulation Alternative would result in development of the same site as the proposed project. This would result in an equal potential to disturb or destroy cultural, tribal, historic, and archaeological resources. The proposed Project is not anticipated to result in significant impacts to cultural resources with mitigation; the Revised Circulation Alternative would result in equal potential for impacts to cultural resources.

Geology and Soils

Under the Revised Circulation Alternative, the amount of developed area would be the same as the Project, but a slightly reduced amount of developed uses would be subject to hazardous geological conditions. Because this alternative would have an equal disturbance area compared to the proposed Project, this alternative would result in an equal potential for loss of topsoil and soil erosion compared to the Project. The proposed Project is not anticipated to result in significant impacts from geology and soils with mitigation; the Revised Circulation Alternative would result in an equal potential for impacts related to geology and soils when compared to the proposed Project.

Greenhouse Gases, Climate Change, and Energy

Under the Revised Circulation Alternative, the Project site would be developed with the same types of uses and structures as the proposed Project, but the intensity would decrease. As noted previously, the amount of traffic generated from the Project site would be reduced under this alternative compared to the proposed Project. The decreased traffic would result in a decrease in mobile emissions.

The decreased intensity in developed uses would result in a decreased level of operational greenhouse gas emissions when compared to the proposed Project. Because construction greenhouse gas emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be equal under this alternative when compared to the proposed Project. As such, the greenhouse gas emissions impact would be slightly reduced when compared to the proposed Project.

Hazards and Hazardous Materials

Under the Revised Circulation Alternative, the types of uses on the site would not change when compared to the proposed Project. This alternative would still use the hazardous materials identified under the proposed Project. As such, this alternative would have equal impacts from hazards and hazardous materials impacts when compared to the proposed Project.

Hydrology and Water Quality

Under the Revised Circulation Alternative, potential construction-related and long-term operational impacts to water quality or waste discharge related to stormwater runoff would be

comparable to the proposed Project. This alternative would still include stormwater detention/basins, and provide natural BMPs to reduce pollutants in stormwater runoff. As such, potential impacts related to hydrology and water quality would be equal under the Revised Circulation Alternative when compared to the proposed Project.

Land Use

Under this alternative, the Project site would be annexed to the City and would remain subject to the same City land use regulations as the project. The Revised Circulation Alternative would require the same land use entitlements as the proposed project. Because the types of uses would be the same as the project, the land use impacts would be the same as the project. Therefore, impacts relating to land use would be equal under this alternative.

Noise

The Revised Circulation Alternative would result in the same type of uses as the project, but the following changes would occur. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road. Eliminating the drive-thru restaurant, eliminating one of the dog runs, and reducing the building size would reduce the vehicular and operational noise impacts associated compared to the proposed Project. All noise issues would be mitigated, as appropriate, through noise attenuation and best management practices; therefore, under this alternative, noise impacts would be reduced when compared to the proposed Project.

Public Services and Recreation

Under the Revised Circulation Alternative, the site would be developed with the same types of uses as described in the Project Description, but the size and intensity of the buildings and uses would be reduced. Due to the similar type of uses, the demand for fire protection, police protection, schools, and recreational facilities would be similar to the Project. As such, public services and recreation impacts would be equal when compared to the proposed Project.

Transportation and Circulation

Under the Revised Circulation Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road. This alternative is like the Reduced Project Size and Intensity Alternative, except that it does not eliminate three acres from the footprint of the Project and it also adds the extension of Roth Road with ingress/egress to the Project site. Due to the reduction in building size and elimination of the drive-thru quick service restaurant, the amount of traffic generated from

the Project site, and thus total VMT, would be reduced under this alternative. It is also noted that the changes in the site access points under this alternative could reduce potential impacts related to visibility and hazards to pedestrians identified under the proposed project. Overall, under this alternative, transportation and circulation impacts would be reduced when compared to the proposed Project.

Utilities

Under the Revised Circulation Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but several changes would occur that would change the commercial activity and circulation patterns on the Project site. Changes include: 1) reducing the 16,688-sf building to 13,000-sf, 2) eliminating the drive-thru quick service restaurant, 3) eliminating one of the proposed dog runs, 4) shifting the interim site access on Manthey Road to the north, and 5) extending Roth Road further west, adding a truck ingress/egress to the Project site from Roth Road. Because this alternative would decrease the building square footage compared to the proposed Project, the associated solid waste generation would slightly decrease. As such, solid waste generation from this alternative would slightly decrease.

Water demand and wastewater generation factors are based on building sizes and urban intensity. Similar to solid waste, because this alternative would decrease the building square footage compared to the proposed Project, the associated water demand and wastewater generation would slightly decrease. As such, the water demand and wastewater generation would be slightly reduced compared to the proposed Project.

Overall, this alternative would have slightly decreased wastewater treatment demand, water demand, and solid waste generated.

PHASE II ONLY ALTERNATIVE

Aesthetics and Visual Resources

The impacts related to changes to the visual character would be similar with the Phase II Only Alternative as this alternative is located on the same site, would have the same uses, and would have the same size development area. The impacts of light and glare would still occur. The impacts to the existing visual quality would be similar to the proposed Project as the Project site would be developed with the same uses as under the proposed Project, just with revised circulation improvements and shifted site access points. Overall, the Phase II Only Alternative would have an equal impact on visual resources when compared to the proposed Project.

Agricultural Resources

Under the Phase II Only Alternative, the total development footprint would be equal to the proposed project. As such, an equal amount of the Project site would be converted from agricultural use to urban use. Overall, the Phase II Only Alternative would have equal impacts on agricultural resources when compared to the proposed Project.

Air Quality

Under the Phase II Only Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the circulation, access and parking Phase I portions of the plan would not be approved. Changes include: 1) eliminating Phase I from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II.

Because construction emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be equal under this alternative when compared to the proposed Project.

The total operational development would be identical to the proposed project. Trip generation is calculated using a trip generation rate and development size (i.e., number of fueling stations and building square footage). Therefore, the amount of traffic generated from the Project site would be equal under this alternative compared to the proposed Project. Mobile source air emissions are directly correlated to traffic volume; therefore, it is estimated that the equal trip volume would result in an equal amount of the mobile source emissions.

Under this alternative the defined Phase II would be fully constructed. This includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. As such, this alternative would increase the distance between the residence at 11401 Manthey Road and the automobile and truck access area under this alternative. This would reduce emissions of toxic air contaminants in the vicinity of this existing residence.

Overall, the Phase II Only Alternative would result in slightly reduced air emissions when compared to the proposed Project.

Biological Resources

The Phase II Only Alternative would result in development of the same site as the proposed project. Under this alternative, all habitat (i.e., trees and grass fields) for species would be converted from rural to urban, similar to the proposed Project. As such, the Phase II Only Alternative would result in equal impacts to biological resources when compared to the proposed Project.

Cultural and Tribal Resources

The Phase II Only Alternative would result in development of the same site as the proposed project. This would result in an equal potential to disturb or destroy cultural, tribal, historic, and archaeological resources. The proposed Project is not anticipated to result in significant impacts to

cultural resources with mitigation; the Phase II Only Alternative would result in equal potential for impacts to cultural resources.

Geology and Soils

Under the Phase II Only Alternative, the amount of developed area would be the same as the Project; as such, the same amount of developed uses would be subject to hazardous geological conditions. Because this alternative would have an equal disturbance area compared to the proposed Project, this alternative would result in an equal potential for loss of topsoil and soil erosion compared to the Project. The proposed Project is not anticipated to result in significant impacts from geology and soils with mitigation; the Phase II Only Alternative would result in an equal potential for impacts related to geology and soils when compared to the proposed Project.

Greenhouse Gases, Climate Change, and Energy

Under the Phase II Only Alternative, the Project site would be developed with the same types of uses and structures as the proposed Project, but circulation and site access would be revised. The amount of traffic would be equal to the Project; as such, this alternative would result in an equal amount of mobile emissions. The developed uses would result in an equal level of operational greenhouse gas emissions when compared to the proposed Project. Because construction greenhouse gas emissions are directly correlated to the size of the construction footprint, the construction-related emissions would be equal under this alternative when compared to the proposed Project. As such, the greenhouse gas emissions impact would be equal when compared to the proposed Project.

Hazards and Hazardous Materials

Under the Phase II Only Alternative, the types of uses on the site would not change when compared to the proposed Project. This alternative would still use the hazardous materials identified under the proposed Project. As such, this alternative would have equal impacts from hazards and hazardous materials impacts when compared to the proposed Project.

Hydrology and Water Quality

Under the Phase II Only Alternative, potential construction-related and long-term operational impacts to water quality or waste discharge related to stormwater runoff would be comparable to the proposed Project. This alternative would still include stormwater detention/basins, and provide natural BMPs to reduce pollutants in stormwater runoff. As such, potential impacts related to hydrology and water quality would be equal under the Phase II Only Alternative when compared to the proposed Project.

Land Use

Under this alternative, the Project site would be annexed to the City and would remain subject to the same City land use regulations as the project. The Phase II Only Alternative would require the same land use entitlements as the proposed project. Because the types of uses would be the same as the project, the land use impacts would be the same as the project. Therefore, impacts relating to land use would be equal under this alternative.

Noise

Under the Phase II Only Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the circulation, access and parking Phase I portions of the plan would not be approved. Changes include: 1) eliminating Phase I from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II. All noise issues would be mitigated, as appropriate, through noise attenuation and best management practices; therefore, under this alternative, noise impacts would be equal to the proposed Project.

Public Services and Recreation

Under the Phase II Only Alternative, the site would be developed with the same types of uses as described in the Project Description, but the circulation and site access would be modified. Due to the same type of uses, the demand for fire protection, police protection, schools, and recreational facilities would be similar to the Project. As such, public services and recreation impacts would be equal when compared to the proposed Project.

Transportation and Circulation

Under the Phase II Only Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the circulation, access and parking Phase I portions of the plan would not be approved. Changes include: 1) eliminating Phase I from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project, except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II. Due to the equal building size and uses as the proposed Project, the amount of traffic generated from the Project site, and thus total VMT, would be equal under this alternative compared to the Project.

It is also noted that the potential impacts related to visibility and hazards to pedestrians identified under the proposed project would occur under Phase I only (not Phase II). As such, these potential visibility and hazards to pedestrians would be avoided by this alternative Overall, under this alternative, transportation and circulation impacts would be slightly reduced when compared to the proposed Project.

Utilities

Under the Phase II Only Alternative, the same types of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators as described in the Project Description would be developed, but the circulation, access and parking Phase I portions of the plan would not be approved. Changes include: 1) eliminating Phase I from the Project, and 2) full construction of all onsite and offsite improvements. This alternative is like the proposed Project,

except that it does not allow for a two phase development process with interim improvements (specifically it would not allow access on the existing Manthey Road), and instead would require full buildout of Phase II. Because this alternative would result in the same building square footages and uses compared to the proposed Project, the associated solid waste generation would be equal to the Project. As such, solid waste generation from this alternative would be equal.

Water demand and wastewater generation factors are based on building sizes and urban intensity. Similar to solid waste, because this alternative would have equal building square footage compared to the proposed Project, the associated water demand and wastewater generation would be equal. As such, the water demand and wastewater generation would be equal compared to the proposed Project.

Overall, this alternative would have equal wastewater treatment demand, water demand, and solid waste generated.

ENVIRONMENTALLY SUPERIOR ALTERNATIVE

CEQA requires that an environmentally superior alternative be identified among the alternatives that are analyzed in the EIR. If the No Project (No Build) Alternative is the environmentally superior alternative, an EIR must also identify an environmentally superior alternative among the other alternatives (CEQA Guidelines Section 15126.6(e)(2)). The environmentally superior alternative is that alternative with the least adverse environmental impacts when compared to the proposed Project.

Table 5.0-1 presents a comparison of the impacts from the proposed Project relative to the Alternatives. As shown in the table, the No Project (No Build) Alternative is the environmentally superior alternative. However, as required by CEQA, when the No Project (No Build) Alternative is the environmentally superior alternative, the environmentally superior alternative among the others must be identified. The Reduced Project Size and Intensity Alternative would reduce or slightly reduce impacts related to 11 environmental issues and would have equal impacts related to three environmental issues. The Revised Circulation Alternative would reduce or slightly reduce impacts related to five environmental issues and would have equal impacts related to nine environmental issues. The Phase II Only Alternative would result slightly reduced impacts to two environmental issues and would have equal impacts related to 12 environmental issues. Therefore, the Reduced Project Size and Intensity Alternative would be the next environmentally superior alternative.

See Section 5.4 for a comparative evaluation of the objectives for each alternative.

TABLE 5.0-1: COMPARISON OF ALTERNATIVE PROJECT IMPACTS TO THE PROPOSED PROJECT

ENVIRONMENTAL ISSUE	*NO PROJECT (NO BUILD) ALTERNATIVE*	*REDUCED PROJECT SIZE AND INTENSITY ALTERNATIVE*	*REVISED CIRCULATION ALTERNATIVE*	*PHASE II ONLY ALTERNATIVE*
Aesthetics and Visual Resources	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Agricultural Resources	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Air Quality	Less (Best)	Less (2nd Best)	Less (3rd Best)	Slightly Less (4th Best)
Biological Resources	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Cultural and Tribal Resources	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Geology and Soils	Less (Best)	Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Greenhouse Gases, Climate Change and Energy	Less (Best)	Less (2nd Best)	Slightly Less (3rd Best)	Equal (4th Best)
Hazards and Hazardous Materials	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Hydrology and Water Quality	Less (Best)	Slightly Less (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Land Use and Population	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Noise	Less (Best)	Less (2nd Best)	Less (3rd Best)	Equal (4th Best)
Public Services and Recreation	Less (Best)	Equal (2nd Best)	Equal (3rd Best)	Equal (4th Best)
Transportation and Circulation	Less (Best)	Less (2nd Best)	Less (3rd Best)	Slightly Less (4th Best)
Utilities	Less (Best)	Less (2nd Best)	Slightly Less (3rd Best)	Equal (4th Best)

GREATER = GREATER IMPACT THAN THAT OF THE PROPOSED PROJECT
LESS = LESS IMPACT THAN THAT OF THE PROPOSED PROJECT
EQUAL = NO SUBSTANTIAL CHANGE IN IMPACT FROM THAT OF THE PROPOSED PROJECT

5.4 COMPARATIVE EVALUATION OF THE ALTERNATIVES' ABILITY TO SATISFY PROJECT OBJECTIVES

This section examines how each of the alternatives selected for more detailed analysis meets the Project objectives.

1. *To develop a property of sufficient size to accommodate all of the following: a travel center that consists of a truck and auto repair shop, convenience store, adjoining fast food restaurants, restrooms, and auto and truck fuel dispensing area able to accommodate cars and semi-trucks per day.*

The No Project (No Build) Alternative would not satisfy this Project objective because under this alternative, the Project site would remain in its current existing condition and would not be developed to accommodate all of the following: a travel center that consists of a truck and auto repair shop, convenience store, adjoining fast food restaurants, restrooms, and auto and truck fuel dispensing area able to accommodate cars and semi-trucks per day. Both the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative would meet this objective, but to a lesser extent than the proposed Project as both alternatives would reduce the building size and eliminate the drive-thru quick service restaurant. Because the Phase II Only Alternative is identical to Phase II of the proposed Project and would include the same uses as the proposed Project, this alternative would meet this objective.

2. *To provide visitor-serving facilities that maximize the benefits of the Project site's proximity to I-5 for all buildings and tenants and thereby minimize traffic generation on local streets by visitors exiting and reentering the freeway.*

The No Project (No Build) Alternative would not satisfy this Project objective because under this alternative, the Project site would remain in its current existing condition and would not provide visitor-serving facilities that maximize the benefits of the Project site's proximity to I-5 for all buildings and tenants and thereby minimize traffic generation on local streets by visitors exiting and reentering the freeway. Both the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative would meet this objective as both would provide visitor-serving facilities that maximize the benefits of the Project site's proximity to I-5 for all buildings. Because the Phase II Only Alternative is identical to Phase II of the proposed Project and would include the same uses as the proposed Project at the same location, this alternative would meet this objective.

3. *To construct a facility with access to adequate existing or anticipated utility infrastructure to support planned operations.*

The No Project (No Build) Alternative would not satisfy this Project objective because under this alternative, the Project site would remain in its current existing condition and would not construct a facility with access to adequate existing or anticipated utility infrastructure to support planned operations. Both the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative would meet this objective as both would construct a facility with access to utility infrastructure. The Phase II Only Alternative would meet this objective because a facility with access to adequate existing or anticipated utility infrastructure to support planned operations would be constructed.

4. *To accommodate the planned Roth Road / I-5 interchange improvements and realignment of Manthey Road.*

The No Project (No Build) Alternative would satisfy this objective because the planned Roth Road / I-5 interchange improvements and realignment of Manthey Road could be accommodated with a vacant site. Both the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative would meet this objective as both would be able to accommodate the interchange and realignment improvements. Because the Phase II Only Alternative is identical to Phase II of the proposed Project, this alternative would meet this objective.

5. *To create new jobs that can be filled wholly or partly by local residents.*

The No Project (No Build) Alternative would not satisfy this objective because this alternative would not create jobs. All of the remaining alternatives would meet this objective; however, due to the reduction in size and intensity of the proposed uses included in the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative, these two alternatives would meet this objective to a lesser extent than the proposed Project.

6. To maximize tax revenues to the City of Lathrop.

The No Project (No Build) Alternative would not result in any tax revenues for the City as the site would not be developed as part of this alternative. All of the remaining alternatives would meet this objective; however, due to the reduction in size and intensity of the proposed uses included in the Reduced Project Size and Intensity Alternative and the Revised Circulation Alternative, these two alternatives would meet this objective to a lesser extent than the proposed Project.

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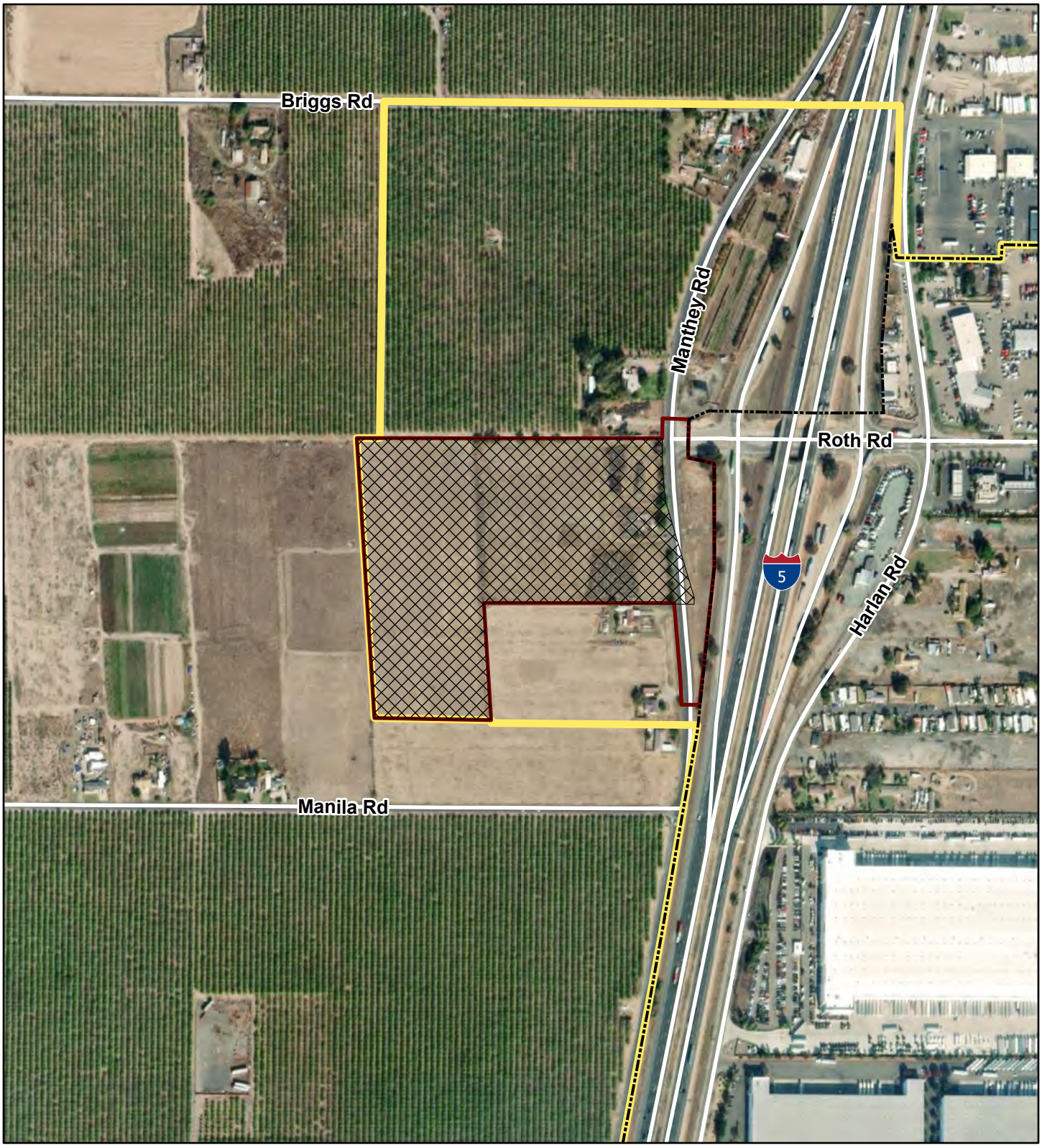

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 5.0-1. No Project (No Build) Alternative

0 250 500
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: January 23, 2024.

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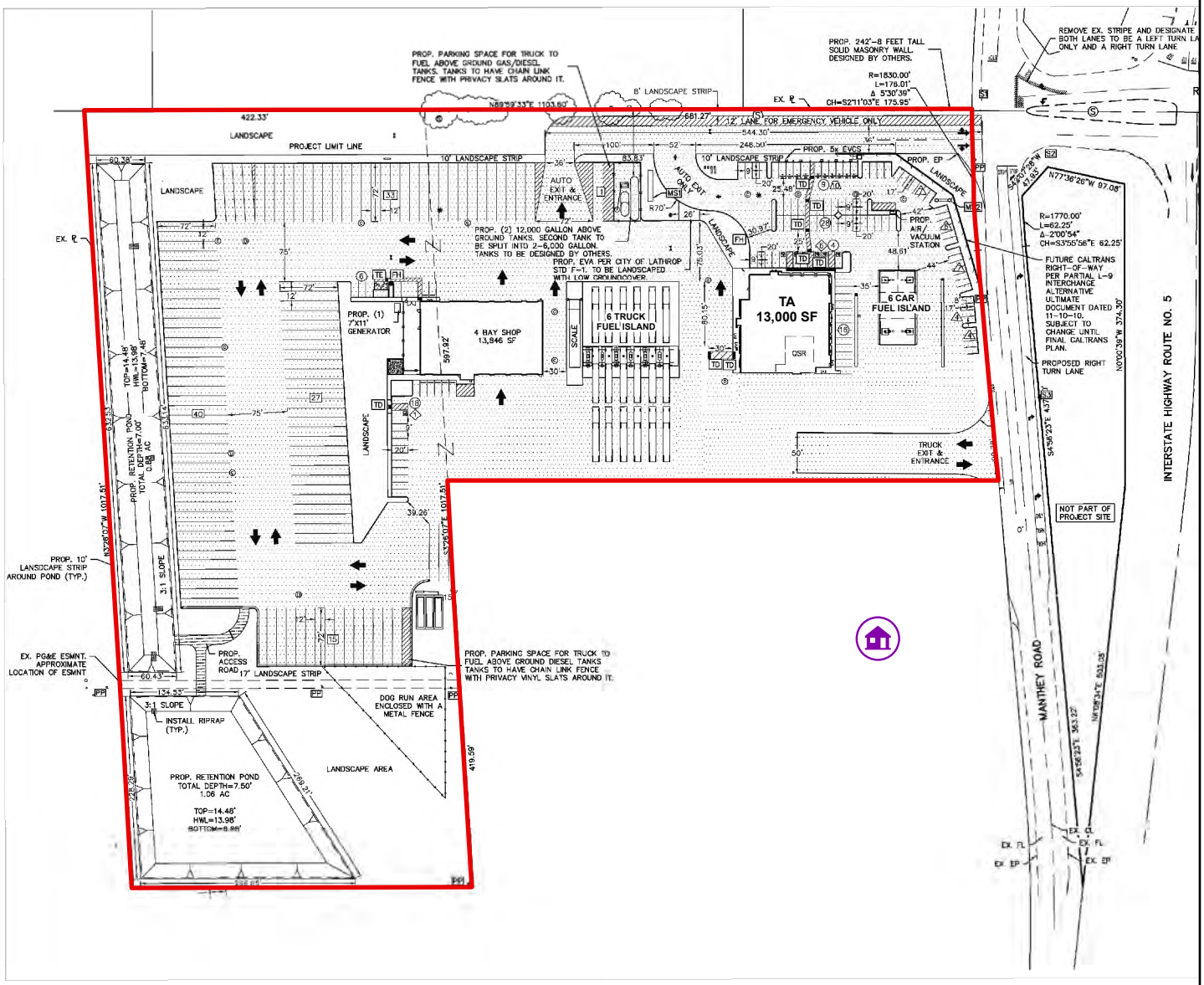

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Reduced Project Alternative Project Boundary
- Existing Home (11401 S Manthey Rd, Lathrop)

Figure 5.0-2. Reduced Project Size and Intensity Alternative

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023, edited by De Novo Planning Group to show approximate locations of Alternative 2 project features. Map date: January 23, 2024.

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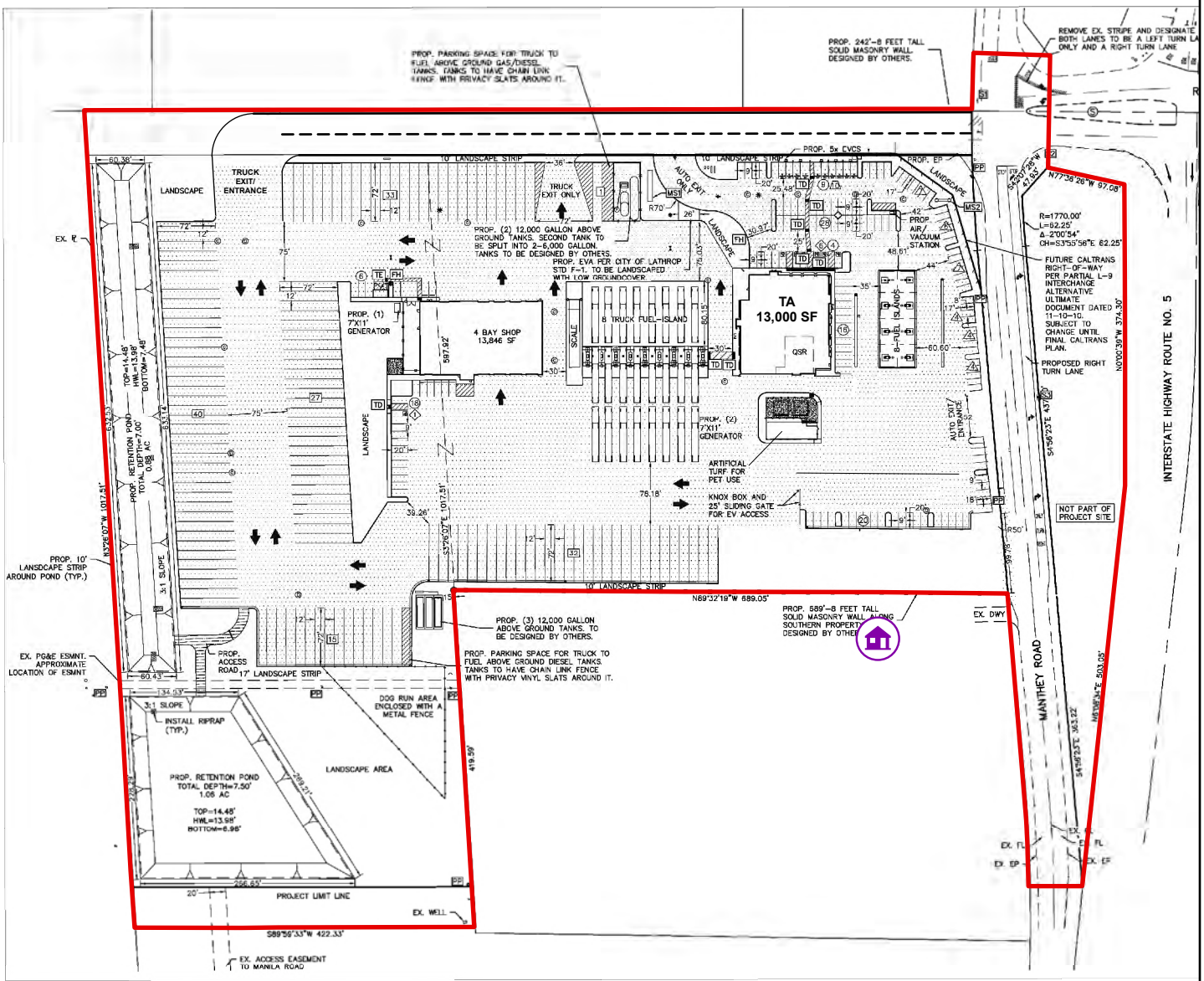

SINGH PETROLEUM INVESTMENT PROJECT

Legend

Revised Circulation Alternative Project Boundary

Existing Home (11401 S Manthey Rd, Lathrop)

Figure 5.0-3. Revised Circulation Alternative

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023, edited by De Novo Planning Group to show approximate locations of Alternative 3 project features. Map date: January 30, 2024.

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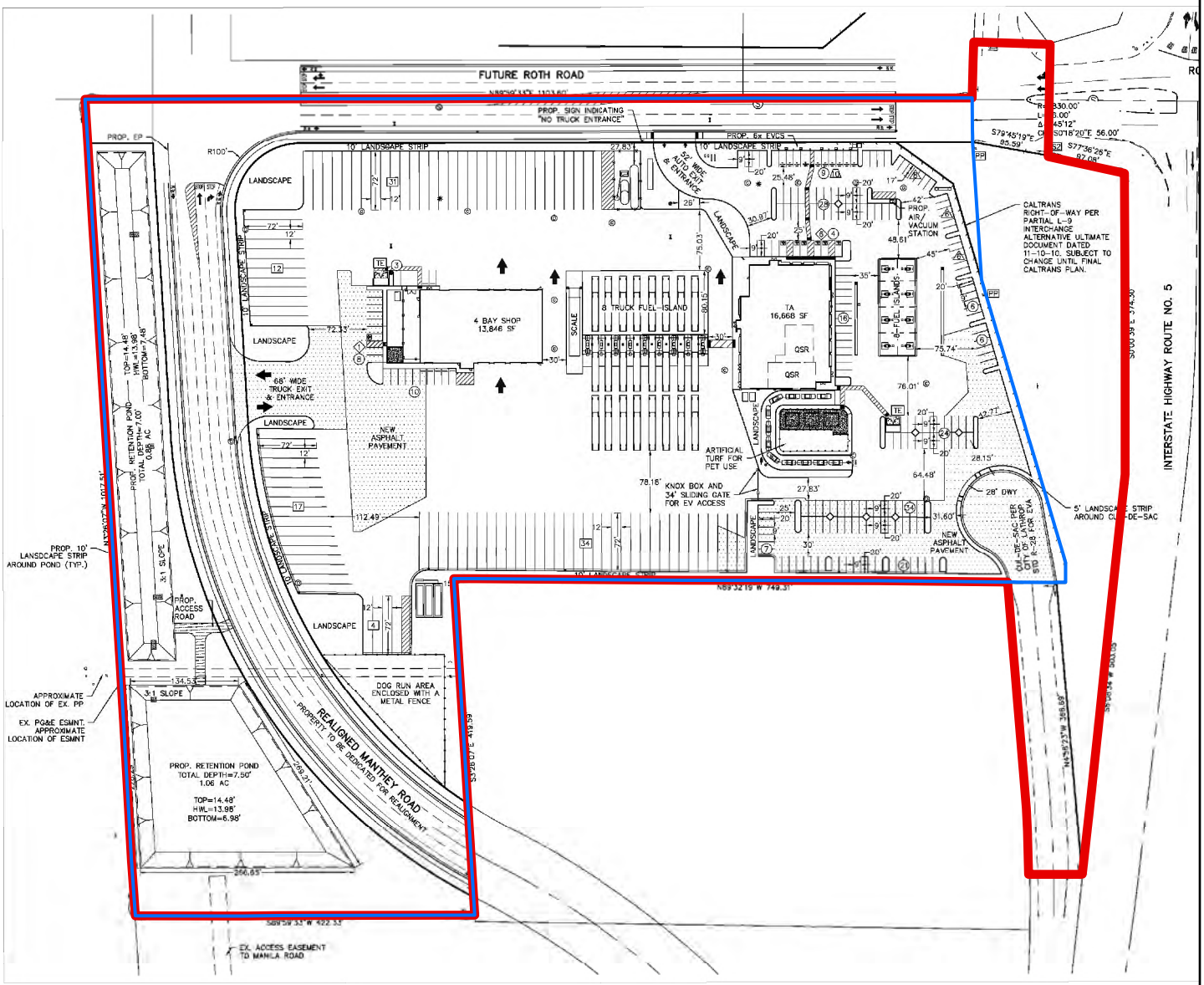

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Development Area
- Project Area/Annexation Area

Figure 5.0-4. Phase II Only Alternative

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023. Map date: May 4, 2023. Retitled: January 23, 2024.

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APPENDIX A

Initial Study, Notice of Preparation, and NOP Comments

INITIAL STUDY

FOR THE

SINGH PETROLEUM INVESTMENTS PROJECT

DECEMBER 2022

Prepared for:

City of Lathrop, Community Development Department
390 Towne Centre Drive
Lathrop, CA 95330
(209) 941-7260

Prepared by:

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1020 Suncast Lane, Suite 106
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(916) 580-9818

De Novo Planning Group

A Land Use Planning, Design, and Environmental Firm

INITIAL STUDY

FOR THE

SINGH PETROLEUM INVESTMENTS PROJECT

DECEMBER 2022

Prepared for:

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INITIAL STUDY CHECKLIST

PROJECT TITLE

Singh Petroleum Investments Project

LEAD AGENCY NAME AND ADDRESS

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390 Towne Centre Dr.
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CONTACT PERSON AND PHONE NUMBER

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PROJECT SPONSOR'S NAME AND ADDRESS

Singh Petroleum Investments, Inc.
17900 Murphy Parkway
Lathrop, CA 95330
Phone: (408) 355-5700

PURPOSE OF THE INITIAL STUDY

An Initial Study (IS) is a preliminary analysis which is prepared to determine the relative environmental impacts associated with a proposed project. It is designed as a measuring mechanism to determine if a project will have a significant adverse effect on the environment, thereby triggering the need to prepare an Environmental Impact Report (EIR). This Initial Study has been prepared consistent with California Environmental Quality Act (CEQA) Guidelines Section 15063, to determine if the proposed project may have a significant effect upon the environment.

PROJECT LOCATION AND SETTING

PROJECT LOCATION

The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

- **Project Site** (or **Annexation Area**) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
- **Development Area** – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 1 and 2 show the Project's regional location and vicinity. Figure 3 provides the APN map.

EXISTING SITE USES

The Project site is comprised of flat land with ruderal grasses, fallow ground, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

EXISTING SURROUNDING USES

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 1,000 feet to the northeast of the Project site. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 4.

GENERAL PLAN LAND USE AND ZONING DESIGNATIONS

The Project site is currently located within San Joaquin County. The Project site is outside the Lathrop city limits, but within the City's Primary Sphere of Influence (SOI).

GENERAL PLAN LAND USE DESIGNATIONS

The Project site is currently designated Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map and Agriculture/General (A/G) by the San Joaquin County General Plan Land Use Map. The FC designation generally allows building densities of 1-2 stories and building intensity up to 60% site area coverage. This classification of commercial activity is somewhat of a hybrid in that it caters to uses which serve the regional market for specialized sales and service activities as well as uses which cater more strictly to the needs of the highway traveler. Specialized activities might include factory store centers, discount centers for home furniture, appliances, home improvement and sports, and commercial recreation centers for such activities such as bowling, skating, tennis, racquetball, water-oriented amusements and miniature golf. Uses which cater to the highway traveler include motels, restaurants, auto and truck sales and service, fuel stations, auto repair, RV sales and service, boat sales and service, sports equipment, bank service, truck stops and terminals, bus stops and facilities for overnight camping and RV parking.

The A/G designation provides for large-scale agricultural production and associated processing, sales, and support uses. The A/G Designation generally applies to areas outside areas planned for urban development where soils are capable of producing a wide variety of crops and/or support grazing. Typical building types include low-intensity structures associated with farming and agricultural processing and sales. The A/G designation provides for the following commercial agricultural operations and associated support uses:

- Crop production, grazing, and livestock raising facilities
- Agricultural processing facilities (e.g., canning operations, stockyards, feedlots)
- Agricultural support and sales (e.g., feed/grain storage, crop spraying, sale yards)
- Single-family detached dwellings
- Farm-employee housing and farm labor camps
- Accessory second units and ancillary residential structures
- Compatible public, quasi-public, and special uses
- Natural open space areas

The existing General Plan Land Use Map designations for the Project site and surrounding area is shown on Figure 5.

SURROUNDING GENERAL PLAN DESIGNATIONS

Within San Joaquin County, lands to the west of the Project site are designated Agriculture/General (A/G). Lands to the north, east, and south of the Project site are designated as Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map. The City of Lathrop and San Joaquin County General Plan land use designations for the Project site and surrounding areas are shown on Figure 5.

SAN JOAQUIN COUNTY ZONING DESIGNATION

The Project site is currently zoned for Freeway Service Commercial (C-FS) and Agricultural (AG-40) uses by the San Joaquin County Zoning Code (Development Title). The C-FS zone provides for a wide range of manufacturing, distribution and storage uses which have moderate to high nuisance characteristics such as noise, heat, glare, odor, and vibration, and which require segregation from other land uses, and/or may require outside storage areas. New lots in this zone are a minimum of 10,000 sf. The AG-40 zone provides for the continuation of commercial agricultural enterprises. The existing zoning for the Project site and surrounding areas are shown in Figure 6.

PROJECT DESCRIPTION

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The Phase I site plan for the proposed Project is shown in Figure 7 and the Phase II site plan for the proposed Project is shown in Figure 8.

The proposed Project includes the following amenities:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands;
    - Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.
- 246 truck/trailer spaces, 351 passenger vehicle spaces, 4 fueling and gas/diesel spaces, 18 electric vehicle spaces; and 16 ADA spaces;
- A 13,875-sf full service 4 bay truck repair shop;

- A 16,499-sf building that will include the following:
  - Office space;
  - Restroom facilities, 8 showers;
  - Laundry facility with 12 sets of washer/dryer;
  - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
  - Dog run area enclosed with a metal fence
  - Two (2) quick service restaurants, one with a drive-thru option.
  - Seating area for patrons to dine.

PHASE I DEVELOPMENT

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed as an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-of-way (ROW) dedication for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I Project site and is identified as future ROW for future interchange improvements.

PHASE II DEVELOPMENT

Phase II of the Project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road.

SIGNAGE

A high rise pylon sign is proposed for this development for site identification and advertising located at the northeast corner of the site. The sign will house the TA logo, unleaded and diesel prices, and spaces to advertise the two quick service restaurants. There will also be an additional ground monument signs placed just north of the truck fuel islands for facility identification from the roadway. Signage is not part of the proposed entitlement request and will be reviewed separately at a future date. However, the potential environmental impacts of the construction and operation of the proposed signage is analyzed within the CEQA document for the Project.

OPERATIONS

Both the Travel America and Repair Shop facility will be a 24/7 operations with at least 15 employees per shift. The repair shop will have 4 employees per shift. The quick service restaurant within Travel America will have 6 employees per shift and 4 employees per shift managing the store. There will be one supervisor and manager per shift. Total employee count will be 45 to 50 for all operations.

ANNEXATION

The Project site is currently within San Joaquin County, and within the City of Lathrop's Primary Sphere of Influence (SOI). The proposed Project would result in the annexation of APN 191-250-14 and 191-250-06 (which includes the Project site) into the City of Lathrop. The Project site APNs and surrounding APNs are shown on Figure 3.

GENERAL PLAN AMENDMENT

The proposed Project would require a General Plan Amendment to the City's Land Use Map to change land uses on the Project site. Changes to the Land Use Map would include changing the designation for APN 191-250-06 from A/G (County) to FC (City).

The proposed General Plan Land Use Map designation for the Project site is shown on Figure 9.

PREZONING

The Project site is currently in jurisdiction of San Joaquin County, and zoned for Freeway Service Commercial (C-FS) and Agricultural (AG-40) uses by the County. The San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Lathrop in conjunction with the proposed annexation. The City's pre-zoning will follow the land use designation intent of General Plan Land Use Map (Freeway Commercial), as such the site will be zoned Highway Commercial (CH). The pre-zoning would go into effect upon annexation into the City of Lathrop.

The proposed prezoning for the Project site is shown on Figure 10.

CONDITIONAL USE PERMIT

Travel Plaza or Truck Stop is listed as a Conditional Use Permit in the Highway Commercial (HC) Zoning District (Section 17.44.050). As such, the Project would require the approval of a Conditional Use Permit (CUP) prior to Project approval.

SITE PLAN REVIEW

Pursuant to Chapter 17.100 of the City's Zoning Code, the Project would require a site review prior to Project approval.

CIRCULATION

Background: Planned and previously-approved development projects within San Joaquin County, the City of Manteca, and the City of Lathrop will cause the Roth Road / I-5 interchange to operate at an unacceptable level. To address this, the City of Lathrop is working with the California Department of Transportation (Caltrans) to improve the Roth Road / I-5 interchange and realign Manthey Road.

These planned interchange improvements are not a part of the proposed Project. The intent for the proposed Project is that the site would be developed in Phase I, including the buildings (i.e., convenience store, including tenant spaces and the truck repair building, restrooms, etc.) and that in Phase II, the site would be modified to accommodate the planned Manthey Road realignment. The buildings developed during Phase I would remain and will not be modified as

part of Phase II. As discussed below. Phase II would include circulation improvements related to site access, off-street parking, etc. Ultimately, the Manthey Road realignment will be triggered at a future point and as determined by the City via the Transportation Monitoring Program (TMP).

Phase I – All vehicles will enter the site via the two driveways on Manthey Road. Passenger vehicles will exit on the north side of the property from a driveway located on the future Roth Road. Trucks will have two exits located at the southern driveway on Manthey Road and the driveway on future Roth Road. The truck exit on Manthey Road will reduce the number of trucks using the exit only on future Roth Road where the auto exit driveway will be located.

Phase II – All vehicles will entire the site via two driveways on the future Roth Road. The interim driveways included in Phase I will be abandoned.To minimize trucks/auto vehicle conflict, the ingress/egress were placed on different streets. Trucks will access/exit the site from realigned Manthey Road and autos will access/exit the site from Roth Road only.

UTILITIES

Electricity, gas and telephone services are located immediately adjacent to the Project site along Manthey Road. Development of the proposed Project would not require the expansion of these facilities or any off-site improvements. Water and sewer connections would need to be extended onsite to serve the Project. Storm water service will be provided by a private storm water infiltration basin located within the Project boundaries.

PLANNED INFRASTRUCTURE IMPROVEMENTS

The construction of onsite and offsite infrastructure improvements would be required to accommodate development of the proposed Project, as described below.

Potable Water:

Water services for the proposed Project would be extended to the Project site from existing services from the intersection of Harlan Road and Roth Road east of I-5. The water lines would need to be extended west under the overpass along Roth Road to the Project site.

Sewer:

Sewer would be extended from the Project site from the intersection of Harlan Road and Roth Road east of I-5. The sewer lines would need to be extended west under the overpass along Roth Road to the Project site. The sanitary sewer line would be constructed within the existing ROW and no additional off-site ROW would be required for Project implementation.

Storm Drainage:

A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site, as shown in Figure 7. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.

REQUESTED ENTITLEMENTS AND OTHER APPROVALS

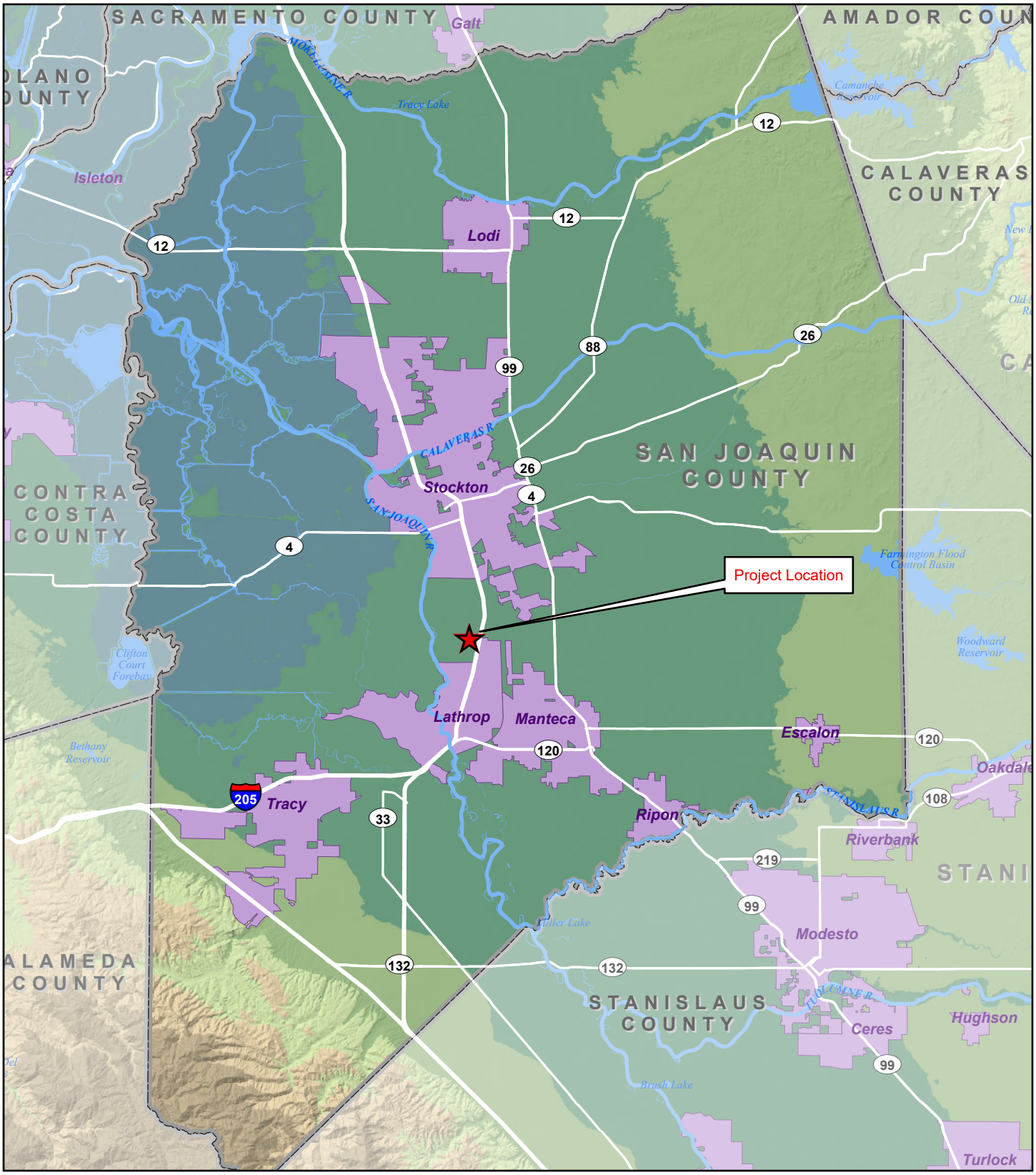
The City of Lathrop will be the Lead Agency for the proposed Project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050. Actions that would be required from the City include, but are not limited to the following:

- Certification of the EIR;
- Adoption of the Mitigation Monitoring and Reporting Program;
- General Plan Amendment from A/G (County) to FC for APN 191-250-06;
- Annexation approval and the annexation of the subject parcels by the City of Lathrop and San Joaquin Local Agency Formation Commission;
- Zoning Amendments and Prezoning for annexation of the Project site;
- Approval of CUP;
- Approval of Site Plan Review;
- Approval of Improvement Plans;
- Approval of Grading Plans;
- Approval of Building Permits;
- Approval of Project Utility Plans.

OTHER PUBLIC AGENCIES WHOSE APPROVAL IS REQUIRED (E.G., PERMITS, ETC.)

The following agencies may be required to issue permits or approve certain aspects of the proposed Project. Other governmental agencies that may require approval include, but are not limited to, the following:

- San Joaquin LAFCo - Annexation;
- San Joaquin Council of Governments (SJCOG) - Compliance with Airport Land Use Compatibility Plan (ALUCP) and San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP)Compliance;
- San Joaquin Valley Air Pollution Control District (SJVAPCD) - Approval of construction-related air quality permits. Additionally, as an industrial development, the Project may be subject to Indirect Source Review (ISR) by the SJVAPCD;
- Central Valley Regional Water Quality Control Board (CVRWQCB) - Storm Water Pollution Prevention Plan (SWPPP) approval prior to construction activities pursuant to the Clean Water Act and water quality certification pursuant to Section 401 of the Clean Water Act;
- Lathrop Manteca Fire District - Plan check of the site plan and roadway improvements for adequate emergency vehicle access and fire flow capabilities.



SINGH PETROLEUM INVESTMENT PROJECT

Figure 1. Regional Map

Legend

- Project Location
- Incorporated Area
- County Boundary

0 2½ 5 Miles

Sources: California State Geoportal. Map date: December 13, 2022.

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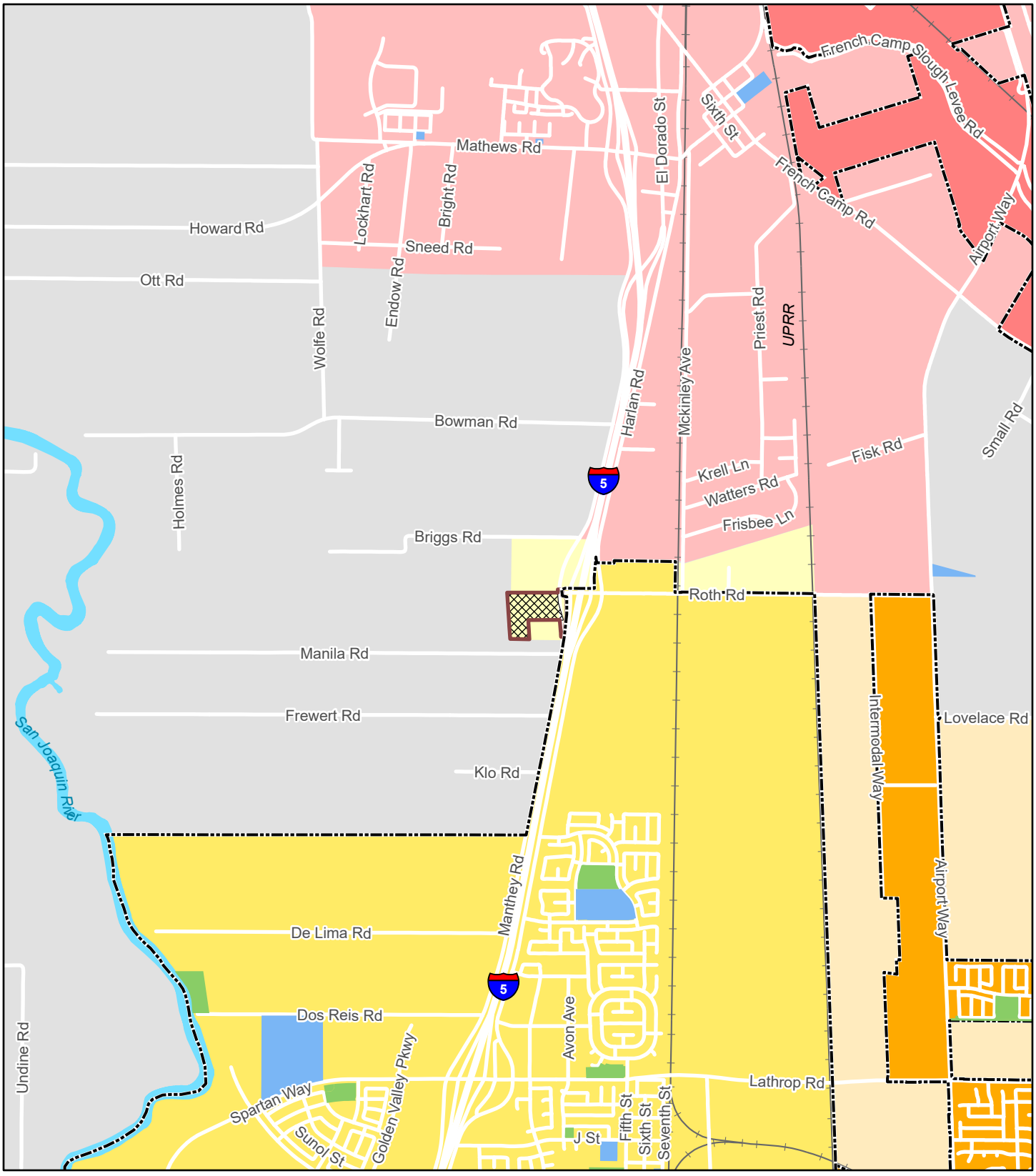

Legend

- Project Site / Annexation Area
- Development Area
- School
- Park
- City of Lathrop
- City of Manteca
- City of Stockton
- Lathrop SOI
- Manteca SOI
- Stockton SOI

SINGH PETROLEUM INVESTMENT PROJECT

Figure 2. Vicinity Map

0 1,000 2,000 Feet

Sources: San Joaquin County Assessor parcels, July 2022; San Joaquin County GIS. Map date: December 13, 2022.

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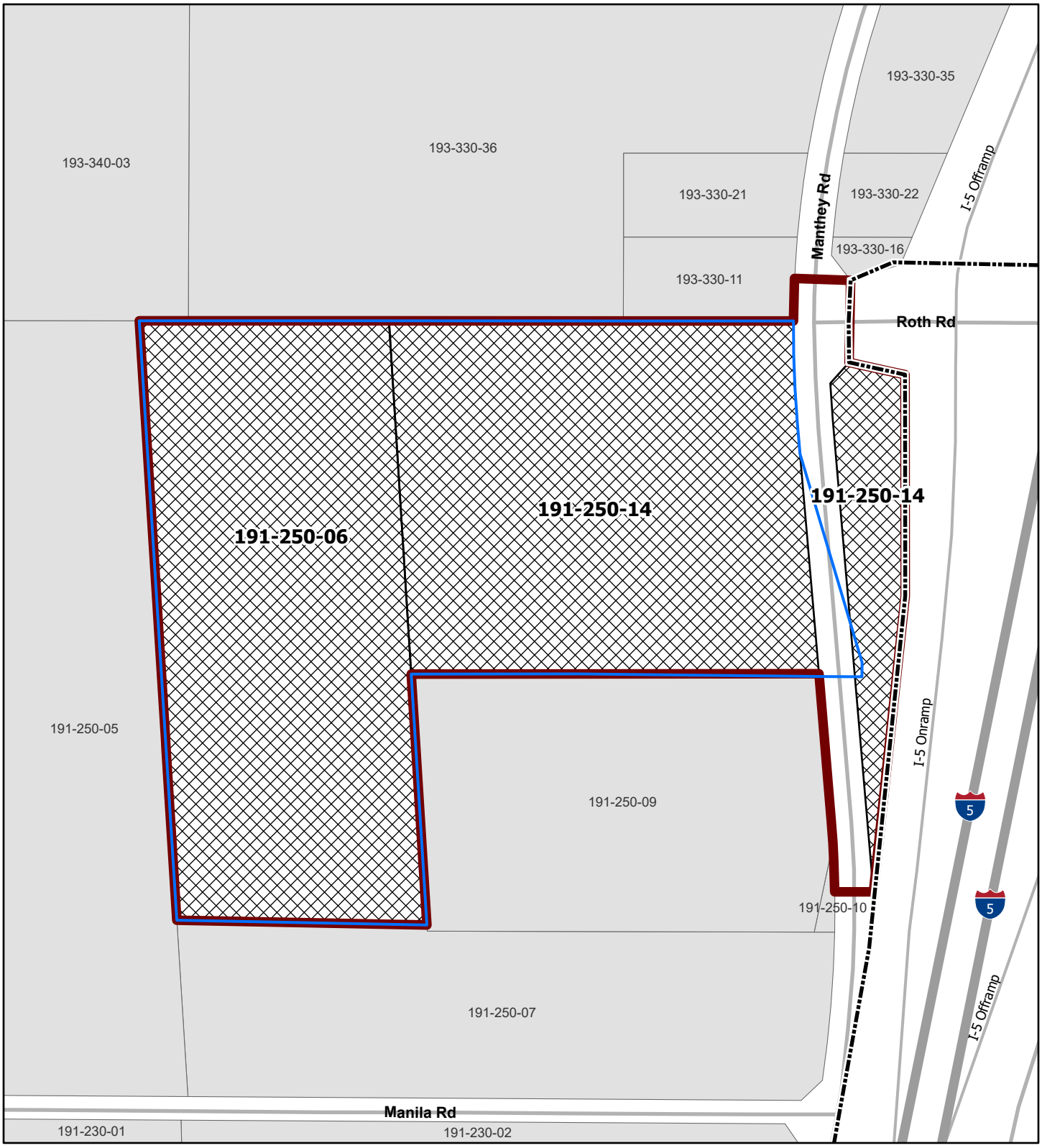

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Parcels to be Annexed
- Other Assessor Parcels

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 3. Assessor Parcel Map

0 100 200
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 4. Aerial View of Project

0 250 500
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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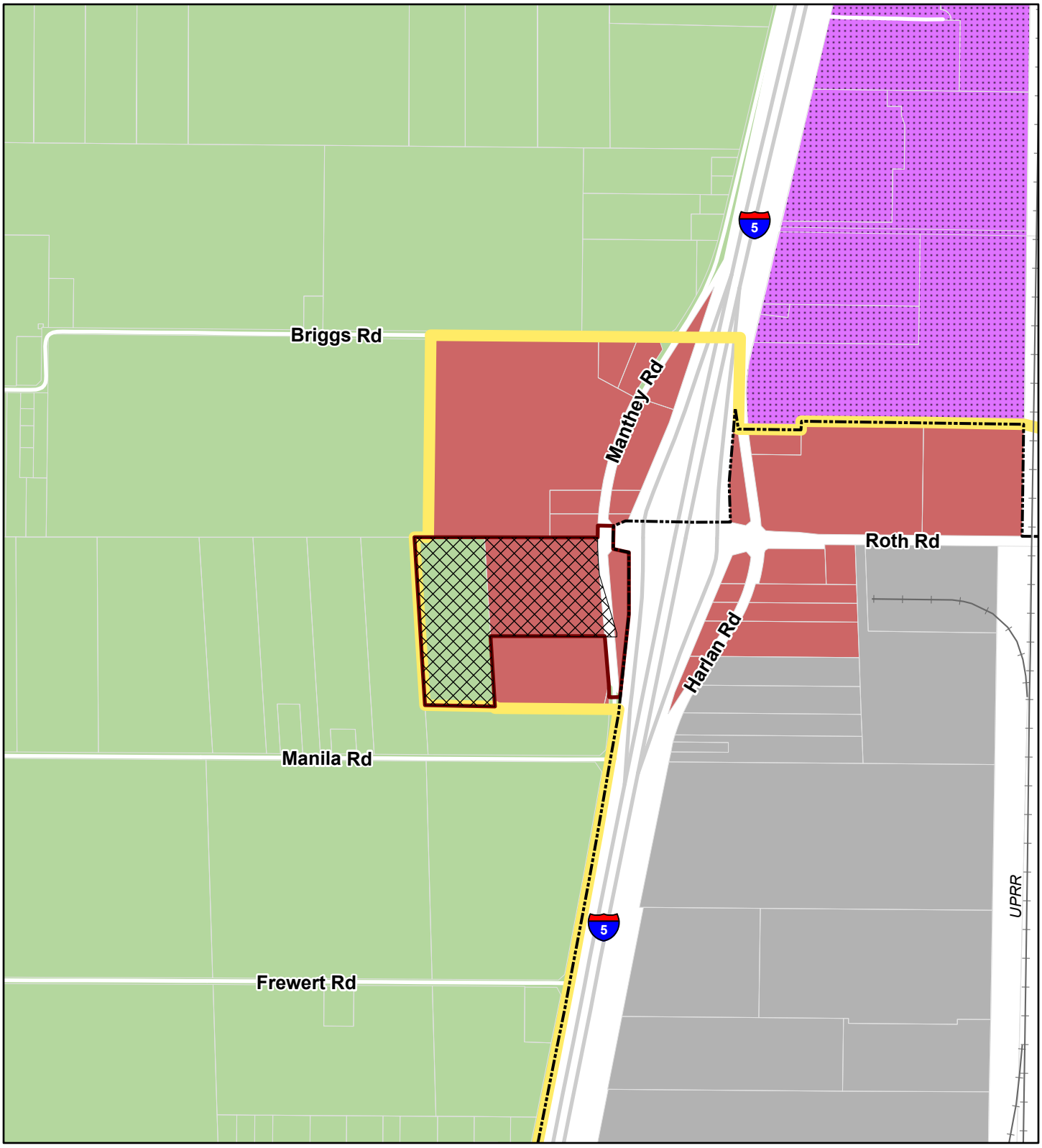

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 5. Existing General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 13, 2022.

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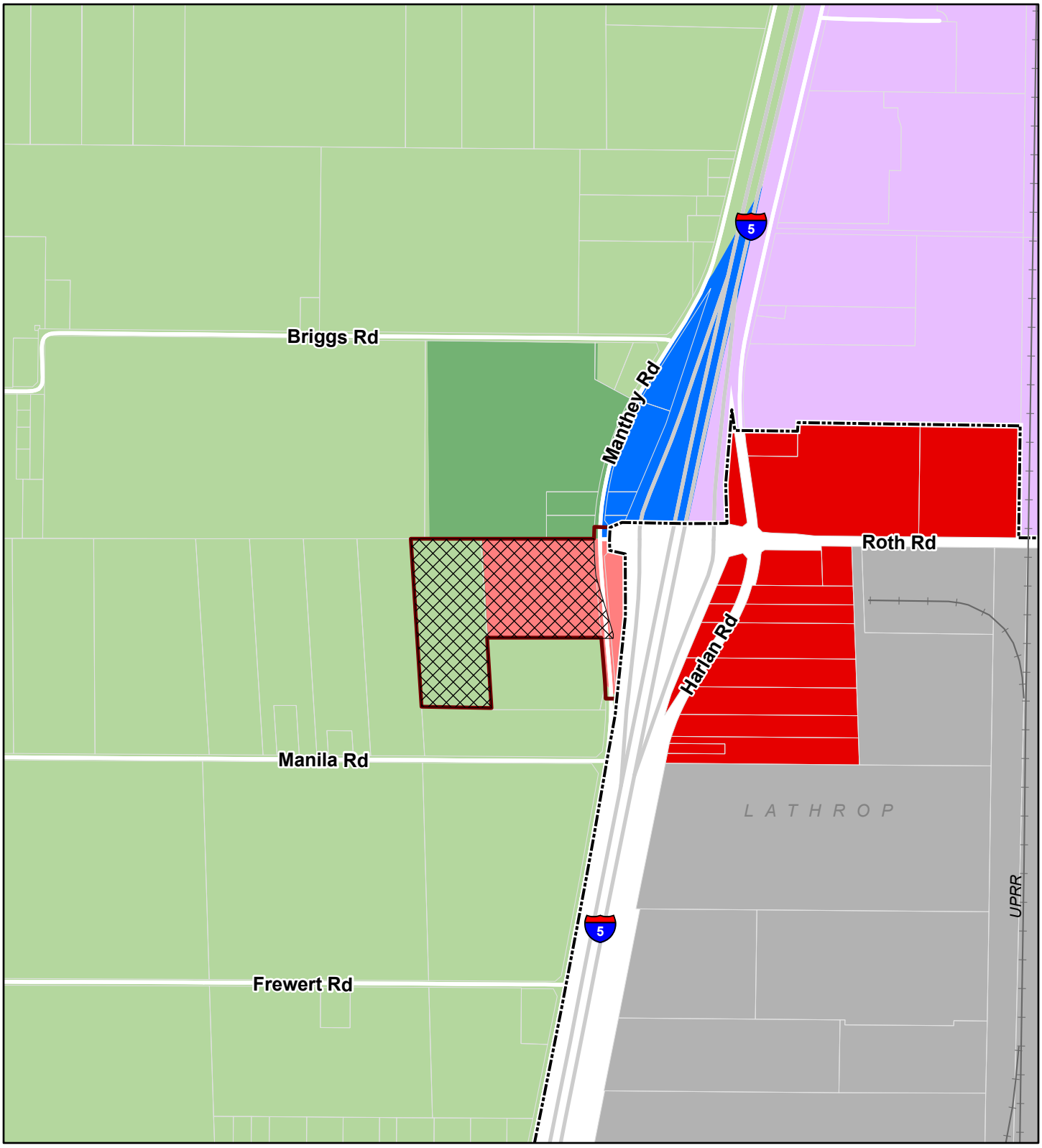

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- C-FS: Freeway Service Commercial
- I-G: General Industrial
- I-W: Warehouse Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 6. Existing Zoning Designations

0 250 500
Feet

Sources: San Joaquin County GIS. Map date: December 14, 2022.

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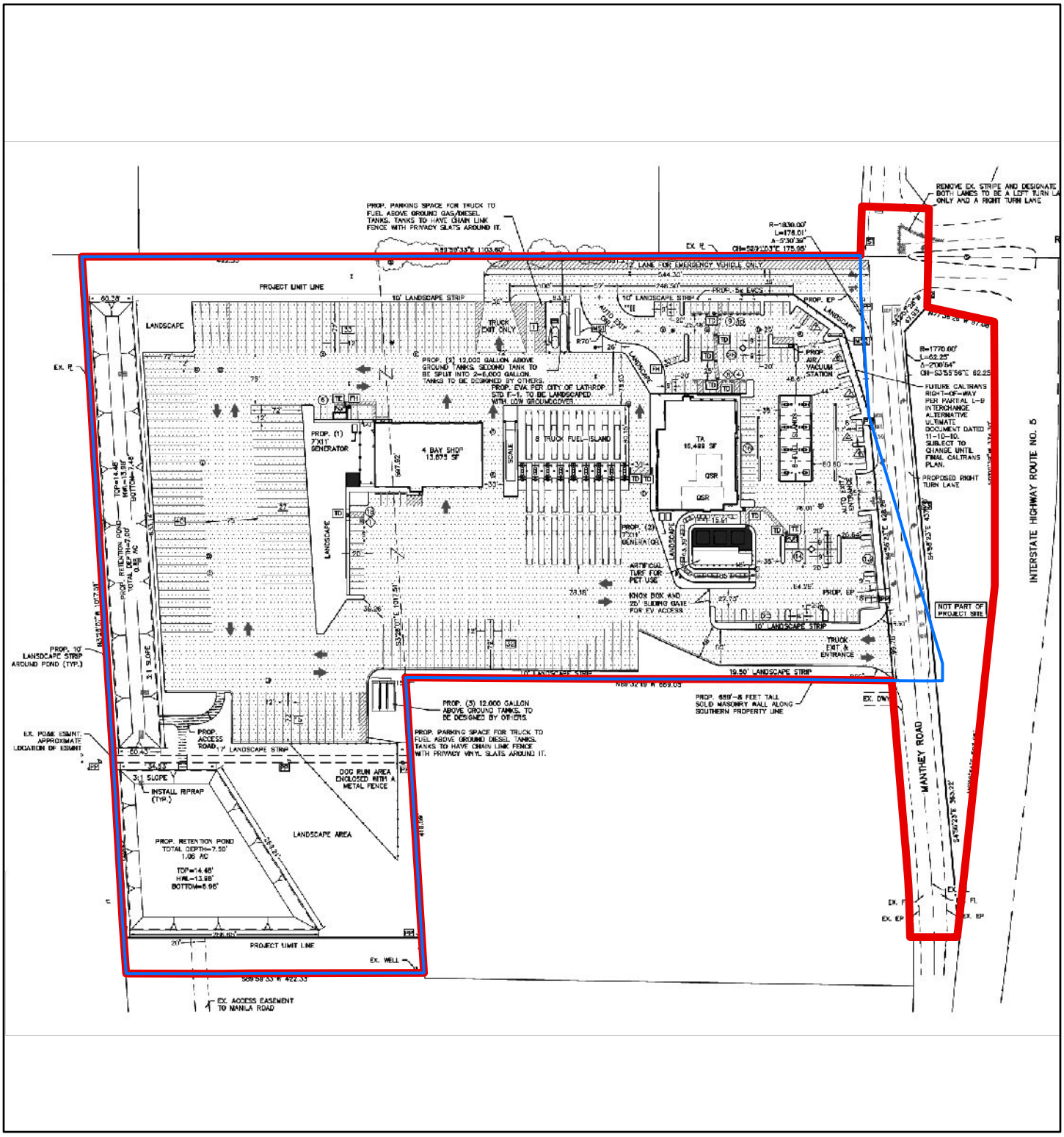

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Project Site/Annexation Area
- Development Area

Figure 7. Site Plan Phase I - Interim

0 50 100 200
Feet

Sources: Wong Engineers, Inc, 9-15-2022 . Map date: December 14, 2022.

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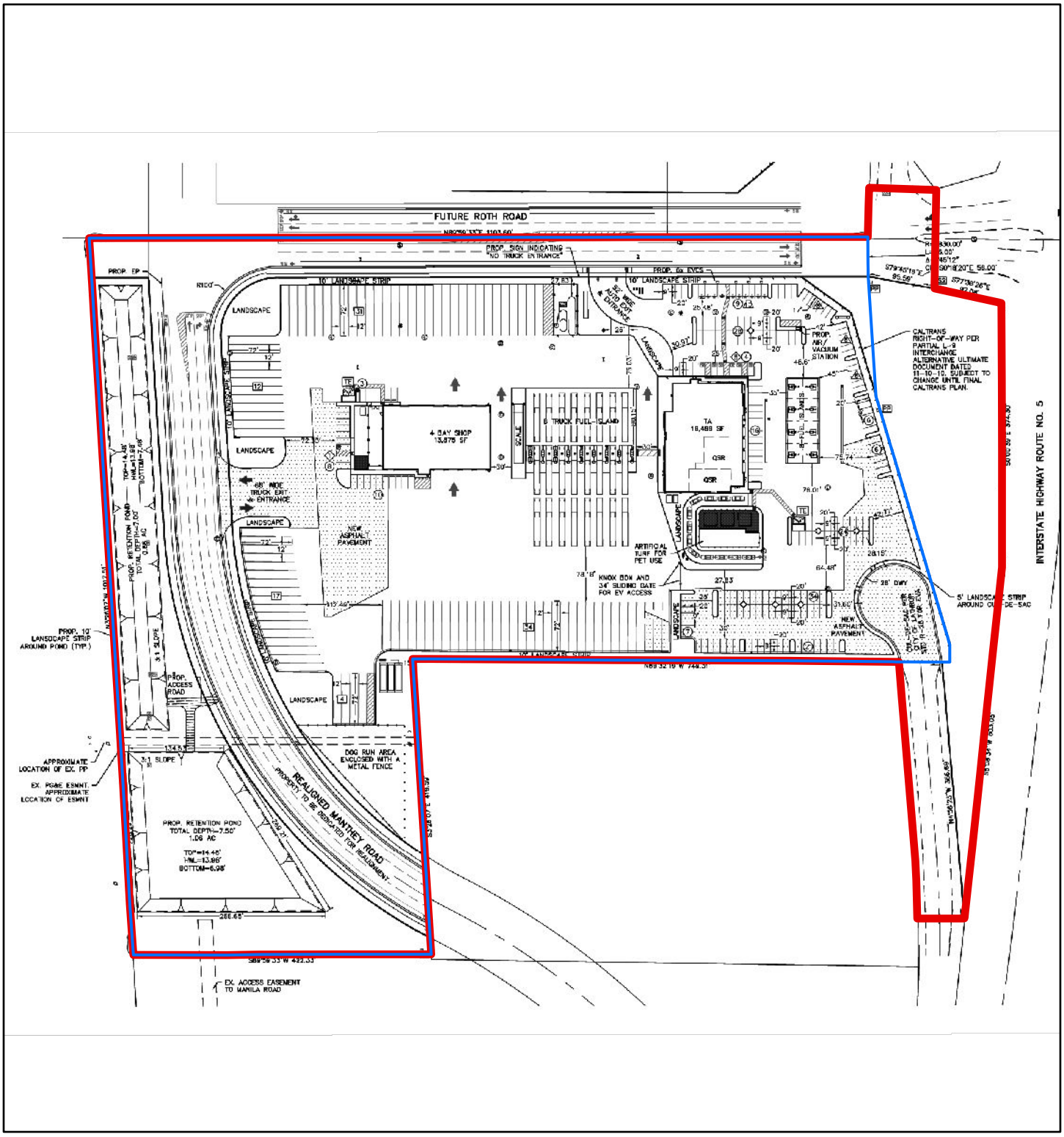

SINGH PETROLEUM INVESTMENT PROJECT

Figure 8. Site Plan Phase II - Buildout

Legend

- Project Area/Annexation Area
- Development Area

0 50 100 200
Feet

Sources: Wong Engineers, Inc, 9-15-2022 . Map date: December 14, 2022.

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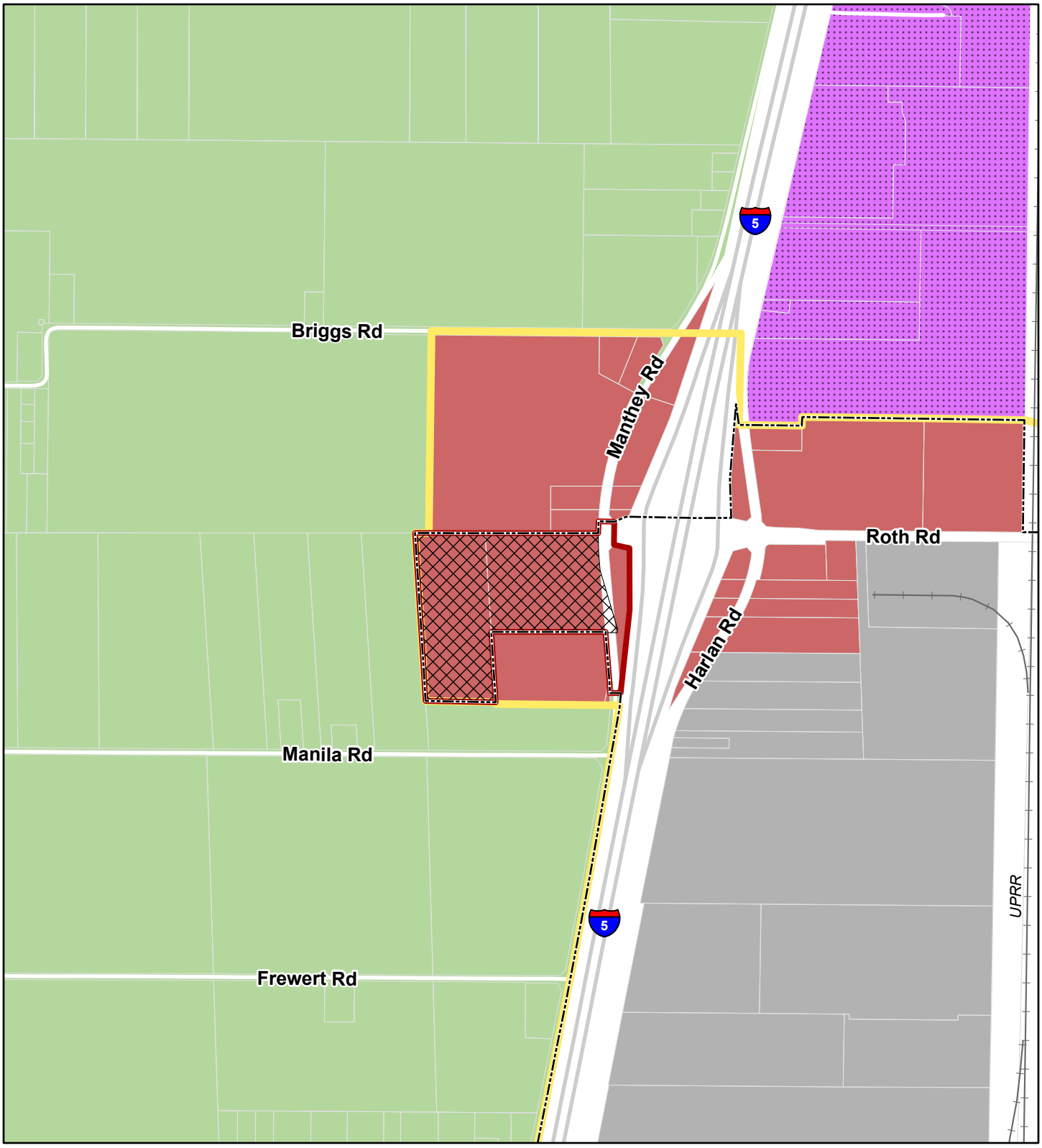

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits (Proposed)
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 9. Proposed General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 14, 2022.

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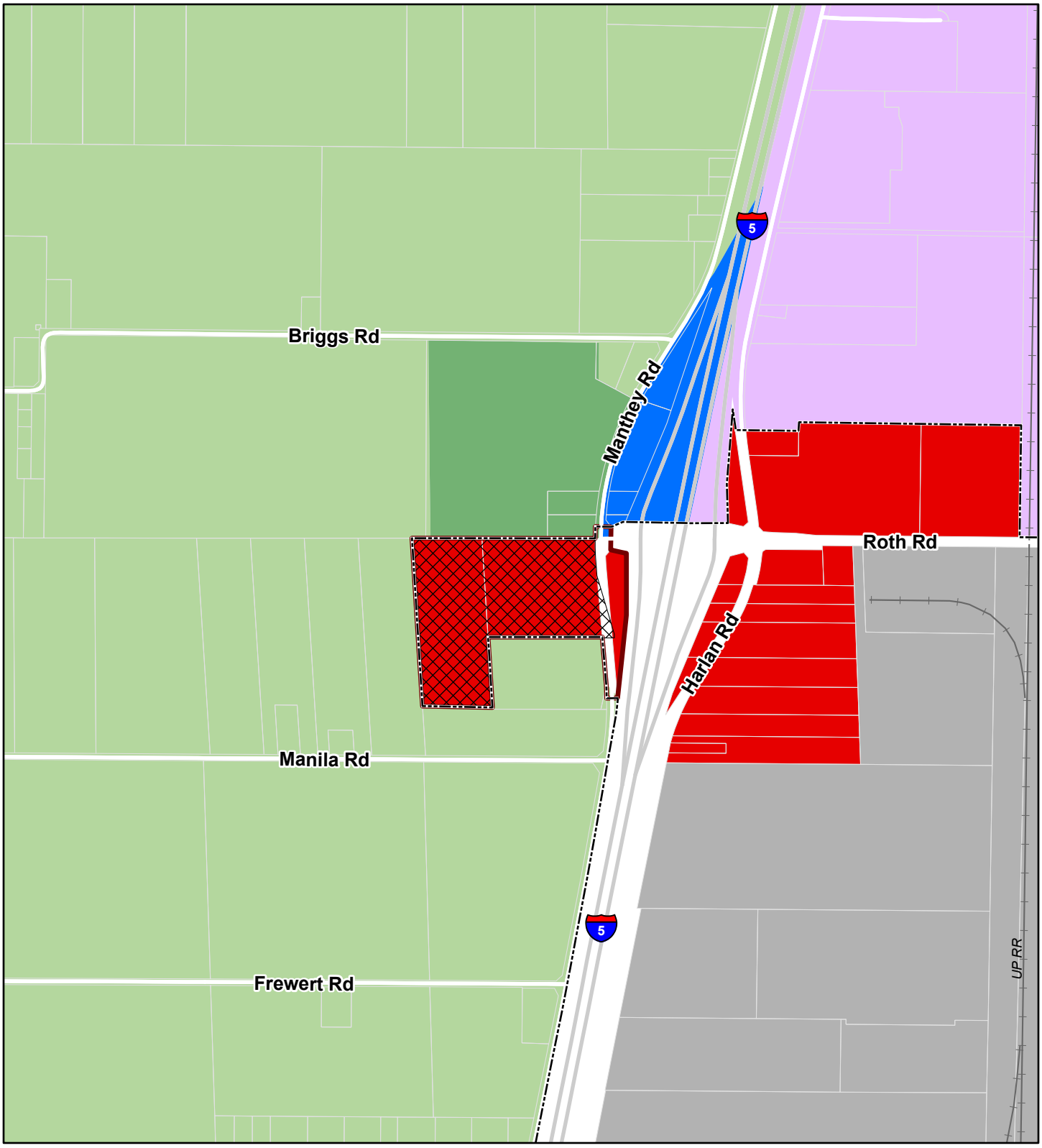

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits (Proposed)

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- I-G: General Industrial
- I-W: Warehouse Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 10. Proposed Zoning Designations

0 250 500
Feet

Sources: San Joaquin County GIS. Map date: December 14, 2022.

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ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

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

DETERMINATION

On the basis of this initial evaluation:

	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.
X	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.

Signature Date

EVALUATION INSTRUCTIONS

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

    a) Earlier Analysis Used. Identify and state where they are available for review.

    b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

    c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:

    a) The significance criteria or threshold, if any, used to evaluate each question; and

    b) The mitigation measure identified, if any, to reduce the impact to less than significance

EVALUATION OF ENVIRONMENTAL IMPACTS

In each area of potential impact listed in this section, there are one or more questions which assess the degree of potential environmental effect. A response is provided to each question using one of the four impact evaluation criteria described below. A discussion of the response is also included.

- Potentially Significant Impact. This response is appropriate when there is substantial evidence that an effect is significant. If there are one or more "Potentially Significant Impact" entries, upon completion of the Initial Study, an EIR is required.
- Less than Significant With Mitigation Incorporated. This response applies when the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact". The Lead Agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level.
- Less than Significant Impact. A less than significant impact is one which is deemed to have little or no adverse effect on the environment. Mitigation measures are, therefore, not necessary, although they may be recommended to further reduce a minor impact.
- No Impact. These issues were either identified as having no impact on the environment, or they are not relevant to the Project.

ENVIRONMENTAL CHECKLIST

This section of the Initial Study incorporates the most current Appendix "G" Environmental Checklist Form, contained in the CEQA Guidelines. Impact questions and responses are included in both tabular and narrative formats for each of the environmental topic areas.

I. AESTHETICS – EXCEPT AS PROVIDED IN PUBLIC RESOURCES CODE SECTION 21099, WOULD THE PROJECT:

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-d): It has been determined that the potential impacts on aesthetics caused by the proposed project will require a more detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project will have a potentially significant impact on aesthetics. At this point, a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will provide a discussion of viewsheds, proximity to scenic roadways and scenic vistas, existing lighting standards, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts on aesthetics. This section of the EIR will identify applicable General Plan policies that protect the visual values located along public roadways and surrounding land uses, and will also address the potential for the project to substantially degrade the visual character or quality of public views of the site and its surroundings. The analysis will address any proposed design and landscaping plans developed by the applicant and provide a narrative description of the anticipated changes to the visual characteristics of the project area as a result of project

implementation and the conversion of the existing on-site land uses. The analysis will also address potential impacts associated with light spillage onto adjacent properties during nighttime activities.

II. AGRICULTURE AND FORESTRY RESOURCES -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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 1222(g)) or timberland (as defined in Public Resources Code section 4526)?				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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a), e): It has been determined that the potential impacts on agricultural resources caused by the proposed project will require a more detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project will have a potentially significant impact on agriculture resources. At this point, a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will describe the character of the region's agricultural lands, including maps of prime farmlands, other important farmland classifications, and protected farmland (including Williamson Act contracts). The County Agricultural Commissioner's Office and the State Department of Conservation will be consulted and their respective plans, policies, laws, and regulations affecting agricultural lands will be presented within the analysis.

The EIR will include thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to offset the loss of agricultural lands as a result of project implementation.

Responses b), c), d): The project site is not under a Williamson Act contract. There are no forest resources or zoning for forest lands located on the project site, or within the City of Lathrop. This CEQA topic is not relevant to the proposed project and does not require further analysis.

III. AIR QUALITY -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-d): Based on the current air quality conditions in the air basin it has been determined that the potential impacts on air quality caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on air quality. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include an air quality analysis that presents the methodology, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts on air quality. The project site is located within the jurisdiction of the SJVAPCD. The air quality analysis will include the following:

- Regional air quality and local air quality in the vicinity of the project site will be described. Meteorological conditions in the vicinity of the project site that could affect air pollutant dispersal or transport will be described. Applicable air quality regulatory framework, standards, and significance thresholds will be discussed.

- Short-term (i.e., construction) increases in regional criteria air pollutants will be quantitatively assessed. The ARB-approved CalEEMod computer model will be used to estimate regional mobile source and particulate matter emissions associated with the construction of the proposed project.

- Long-term (operational) increases in regional criteria air pollutants will be quantitatively assessed for area source, mobile sources, and stationary sources. The ARB-approved CalEEMod computer model will be used to estimate emissions associated with the

proposed project. Exposure to odorous or toxic air contaminants will be assessed through a screening method as recommended by the SJVAPCD.

- Local mobile-source CO concentrations will be assessed through a CO screening method as recommended by the SJVAPCD. Mobile source CO concentrations are modeled for signalized intersections expected to operate at unacceptable levels of service (i.e., LOS E or worse). If the screening method indicates that modeling is necessary, upon review of the traffic analysis, CO concentrations will be modeled using the Caltrans-approved CALINE4 computer model.
- Health Risk Assessment (HRA). The objective of the HRA is to determine the public health risks generated by the proposed project on nearby sensitive receptors.

This section will provide an analysis including the methodology, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts on air quality.

IV. BIOLOGICAL RESOURCES -- WOULD THE PROJECT:

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
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 interruption, or other means?	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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-f): Based on the documented special status species, sensitive natural communities, wetlands, and other biological resources in the region, it has been determined that the potential impacts on biological resources caused by the proposed project will require a detailed analysis. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on biological resources. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will provide a summary of local biological resources, including descriptions and mapping of plant communities, the associated plant and wildlife species, and sensitive biological resources known to occur, or with the potential to occur in the project vicinity. The project site will be surveyed for wetlands and other waters that are regulated under federal and state law. The

analysis will conclude with a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented in order to reduce impacts on biological resources and to ensure compliance with the federal and state regulations.

V. CULTURAL RESOURCES -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	X			
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	X			
d) Disturb any human remains, including those interred outside of formal cemeteries?	X			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-c): Based on known historical and archaeological resources in the region, and the potential for undocumented underground cultural resources in the region, it has been determined that the potential impacts on cultural resources caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the three environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on cultural resources. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include an overview of the prehistory and history of the area, the potential for surface and subsurface cultural resources to be found in the area, the types of cultural resources that may be expected to be found, a review of existing regulations and policies that protect cultural resources, an impact analysis, and mitigation that should be implemented in order to reduce potential impacts to cultural resources. In addition, the CEQA process will include a request to the Native American Heritage Commission for a list of local Native American groups that should be contacted relative to this project. The CEQA process will also include consultation with any Native American groups that have requested consultation with the City of Lathrop. In addition, a cultural resources firm will include a field survey of the project site, and provide results of a record search for the project site through the California Information Center (CCIC) of the California Historical Resources Information System.

VI. ENERGY -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Based on the proposed project and anticipated uses, it has been determined that the potential impacts associated with energy resources will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on energy. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include an evaluation of the energy consumption (e.g., electricity, oil, and natural gas) and provide a discussion of the potential energy impacts of the proposed project with particular emphasis on its potential to result in wasteful, inefficient, or unnecessary consumption of energy resources during construction and operation. An analysis of the project's potential to conflict with or obstruct a plan for renewable energy or energy efficiency will also be addressed.

VII. GEOLOGY AND SOILS -- WOULD THE PROJECT:

	Potentially Significant Impact	***Less Than Significant with Mitigation***	***Less Than Significant Impact***	***No Impact***
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-d), f): It has been determined that the potential impacts from geology and soils will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact from geology and soils. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include a review of existing geotechnical reports, published documents, aerial photos, geologic maps and other geological and geotechnical literature pertaining to the site and surrounding area to aid in evaluating geologic resources and geologic hazards that may be present. The EIR will include a description of the applicable regulatory setting, a description of the existing geologic and soils conditions on and around the project site, an evaluation of geologic hazards, a description of the nature and general engineering characteristics of the subsurface conditions within the project site, and the provision of findings and potential mitigation strategies to address any geotechnical concerns or potential hazards. The potential for paleontological resources to occur with the area will also be assessed.

This section will provide an analysis including thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with geology and soils.

Response e): The proposed project would connect to the municipal sewer system for wastewater disposal. Septic tanks or septic systems are not proposed as part of the project. As such, this CEQA topic is not relevant to the proposed project and does not require further analysis.

VIII. GREENHOUSE GAS EMISSIONS -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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 gasses?	X			

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Implementation of the proposed project could generate greenhouse gases (GHGs) from a variety of sources, including but not limited to vehicle trips, vehicle idling, electricity consumption, water use, and solid waste generation. It has been determined that the potential impacts from greenhouse gas emissions by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact from greenhouse gas emissions. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include a greenhouse gas emissions analysis pursuant to the requirements of federal, state, regional and local laws and regulations. The analysis will follow the California Air Pollution Control Officers Association (CAPCOA) white paper methodology and recommendations presented in Climate Change & CEQA, which was prepared in coordination with the California Air Resources Board and the Governor's Office of Planning and Research as a common platform for public agencies to ensure that GHG emissions are appropriately considered and addressed under CEQA. This analysis will consider a regional approach toward determining whether GHG emissions are significant, and will present mitigation measures to reduce impacts. The discussion and analysis will include quantification of GHGs generated by the project as well as a qualitative discussion of the project's consistency with any applicable state and local plans to reduce the impacts of climate change.

The EIR will provide an analysis including the methodology, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with greenhouse gas emissions.

IX. HAZARDS AND HAZARDOUS MATERIALS -- WOULD THE PROJECT:

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
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	

RESPONSES TO CHECKLIST QUESTIONS

Responses a-f): It has been determined that the potential impacts from hazards and/or hazardous materials by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact from hazards and/or hazardous materials. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include a review of existing environmental site assessments and any other relevant studies for the project site to obtain a historical record of environmental conditions. The environmental hazards evaluation will include a review of hazardous site databases. A site reconnaissance will be performed to observe the site and potential areas of interest. The potential

for project implementation to introduce hazardous materials to and from the area during construction and operation will be assessed. If environmental conditions are identified, mitigation measures, as applicable, will be identified to address the environmental conditions.

This section will provide an analysis including the methodology, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with hazards and hazardous materials.

Response g): The project site and surrounding area are not located within an area identified as a fire hazard severity zone by the Fire Hazard Severity Zones Maps prepared by Cal Fire.[1] This is a less than significant impact, and no additional analysis of this CEQA topic is warranted.

[1] Cal Fire, *Fire Hazard Severity Zone Maps*, https://osfm.fire.ca.gov/divisions/wildfire-planning-engineering/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/, accessed September 24, 2020.

X. HYDROLOGY AND WATER QUALITY -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater 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 offsite?	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; or	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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-e): It has been determined that the potential impacts on hydrology and water quality caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the potentially significant environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on hydrology and water quality. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will present the existing FEMA flood zones, levee protection improvements, reclamation districts, SB5 requirements including 200 year flood mapping (performed by RD17), and risk of flooding on the project site and general vicinity. The applicable reclamation district will be consulted during the preparation of the EIR. The project drainage study/calculations and

proposed improvement plans will be reviewed and the onsite hydrology and hydraulic calculations for existing and proposed conditions, if available, will be summarized. Some of the specific items to be reviewed include: land use classification; acreage calculations; runoff coefficients; time of concentration; and methodology. Calculations will be reviewed for reasonableness and consistency with the site plan and with the City's master plans.

The EIR will evaluate the potential construction and operational impacts of the proposed project on water quality. This section will describe the surface drainage patterns of the project area and adjoining areas, and identify surface water quality in the project area based on existing and available data. This section will identify 303D listed impaired water bodies in the vicinity of the project site. Conformity of the proposed project to water quality regulations will also be discussed. Mitigation measures will be developed to incorporate Best Management Practices (BMPs), consistent with the requirements of the Central Valley Regional Water Quality Control Board (CVRWQCB) to reduce the potential for site runoff.

This section will provide an analysis including the methodology, thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with hydrology and water quality.

XI. LAND USE AND PLANNING -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Response a-b): It has been determined that the potential land use and planning impacts caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of these environmental issues in the EIR and will decide whether the proposed project has the potential to have a significant impact. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include a detailed discussion of the project entitlements as it relates to the existing General Plan, Zoning Code, and other local regulations. The local, regional, state, and federal jurisdictions potentially affected by the project will be identified, as well as their respective plans, policies, laws, and regulations, and potentially sensitive land uses. The proposed project will be evaluated for consistency the City of Lathrop General Plan, the Zoning Ordinance, the San Joaquin County's Aviation System – Airport Land Use Compatibility Plan (2018), and other local planning documents. Planned development and land use trends in the region will be identified based on currently available plans. Reasonably foreseeable future development projects within the region will be noted, and the potential land use impacts associated with the project will be presented.

This section will provide an analysis including the thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to ensure consistency with the existing and planned land uses.

XII. MINERAL RESOURCES -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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	

RESPONSES TO CHECKLIST QUESTIONS

Response a), b): According to the California Department of Conservation Mines and Mineral Resources maps, the project site has been classified as a MRZ-1 zone, signifying that it is in an area where the California Geological Survey (CGS) has determined that little likelihood exists for the presence of mineral resources. Given this finding, the likelihood that implementation of the proposed project would result in the loss of availability of a known valuable mineral resource or the loss of availability of a locally important mineral resource recovery site is considered low. Additionally, impacts to mineral resources as a result of General Plan buildout (including development of the project site with Freeway Commercial uses) were analyzed in the General Plan EIR. For these reasons, the impacts related to mineral resources would be ***less than significant*** and no additional analysis of this CEQA topic is warranted.

XIII. NOISE -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-c): Based on existing and projected noise levels along roadways and other sources, and the potential for noise generated during project construction and operational activities, it has been determined that the potential impacts from noise caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the potentially significant environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact from noise. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include a noise study. The noise study will identify the noise level standards contained in the City of Lathrop General Plan Noise Element which are applicable to this project, as well as any state and federal standards. The EIR will address the existing noise environment, including an evaluation of existing ambient noise levels. Existing noise levels due to the local roadway network will be quantified. The Federal Highway Administration (FHWA) traffic noise prediction model will be used for the prediction of traffic noise levels. The EIR will also analyze mobile noise generated by the project, including noise from on-site activities on the nearest noise-sensitive receptors. The noise study will also include an analysis of the noise and vibration impacts associated with construction of the project and any infrastructure outside of the project site. The study will present appropriate and practical recommendations for noise control aimed at reducing any noise impacts.

The EIR will include thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with noise.

XIV. POPULATION AND HOUSING -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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	

RESPONSES TO CHECKLIST QUESTIONS

Responses a-b): The project site is currently undeveloped and does not contain any existing housing that would be displaced. Development of the site, as proposed, would not displace substantial numbers of existing people or housing. Sewer and water infrastructure and services would be extended to the project site, however no additional housing development is planned for the project area. Surrounding uses within the City of Lathrop include Agriculture/General and Freeway Commercial uses designated by the City's General Plan. Therefore, the proposed project would not induce substantial population growth to the area.

This CEQA topic is not relevant to the proposed project and does not require further analysis. For these reasons, the impacts related to population and housing would be ***less than significant*** and no additional analysis of this CEQA topic is warranted.

XV. PUBLIC SERVICES:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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?	X			
ii) Police protection?	X			
iii) Schools?	X			
iv) Parks?	X			
v) Other public facilities?	X			

RESPONSES TO CHECKLIST QUESTIONS

Responses a) i- v: Implementation of the proposed project would result in increased demand for police, fire protection, schools, parks, and other public facilities in the area. It has been determined that the potential impacts from increased demands on public services caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on public services. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

During the preparation of the EIR, the public service providers will be consulted in order to determine existing service levels in the project areas. This would include documentation regarding existing staff levels, equipment and facilities, current service capacity, existing service boundaries, and planned service expansions. Master plans from such public service providers and City policies, programs, and standards associated with the provision of public services will be presented in the EIR.

The EIR will provide an analysis including the thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented reduce impacts associated with public services.

XVI. RECREATION -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Response a-b): Implementation of the proposed project could result in increased demand for parks, and other recreational facilities in the area. It has been determined that the potential impacts from increased demands to recreation facilities caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine each of these environmental issues listed in the checklist above in the EIR, and will decide whether the proposed project has the potential to have a significant impact on recreational facilities. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

During the preparation of the EIR, the recreational facilities and services will be analyzed to determine existing service levels in the project areas. This would include documentation regarding existing and future facility needs, current service capacity, and planned service expansions. City policies, programs, and standards associated with the provision of public services will be presented in the EIR.

The EIR will provide an analysis including the thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented reduce impacts associated with public services.

XVII. TRANSPORTATION -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-d): The proposed project includes the development of uses that will involve new trips on existing and planned roadways within the area, requiring a detailed analysis in the EIR. As such, the EIR will examine each of the environmental issues listed in the checklist above in the EIR and will determine whether the proposed project has the potential to have a significant transportation impact. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is conducted in the EIR.

Fehr & Peers will conduct a traffic study and the traffic section of the EIR. The EIR will describe existing and future transportation conditions and will analyze any potential conflicts with programs, plans, ordinances or policies addressing the circulation system. Potential impacts associated with site access, and on-site circulation will also be addressed in the EIR. A detailed vehicle miles traveled (VMT) analysis will be conducted to determine if the project would conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b). The VMT analysis would be completed consistent with the Office of Planning and Research's (OPR's) Technical Advisory on Evaluating Transportation Impacts in CEQA. The Draft EIR will also include a discussion of Level of Service (LOS) only in order to aid the City of Lathrop and Caltrans in the understanding of potential increases in vehicle delay at key signalized intersections.

The potential for the project to substantially increase hazards due to a geometric design feature will be analyzed as part of the EIR. Impacts to the bicycle, pedestrian, rail, and transit facilities and services will be also evaluated, including planned regional bicycle connections and the need for enhanced transit service and transit stops in coordination with the San Joaquin Regional Transit District. Significant impacts will be identified in accordance with the established criteria. Mitigation measures will be identified to lessen the significance of impacts where feasible.

The EIR will provide an analysis including the thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented reduce impacts associated with transportation.

XVIII. TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
Would the project 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:				
a) 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			
b) 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 Resources Code Section 5024.1, the lead agency shall consider the significance of the resources to a California Native American tribe.	X			

RESPONSES TO CHECKLIST QUESTIONS

Responses a), b): Based on known tribal cultural resources in the region, and the potential for undocumented underground tribal cultural resources in the region, it has been determined that the potential impacts on tribal cultural resources caused by the proposed project will require a detailed analysis in the EIR. As such, the lead agency will examine the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact on tribal cultural resources. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will include an overview of the prehistory and history of the area, the potential for surface and subsurface tribal cultural resources to be found in the area, the types of tribal cultural resources that may be expected to be found, a review of existing regulations and policies that protect cultural resources, an impact analysis, and mitigation that should be implemented in order to reduce potential impacts to tribal cultural resources. In addition, the CEQA process will include a request to the Native American Heritage Commission for a list of local Native American groups that should be contacted relative to this project. Pursuant to AB 52 and SB 18, the City completed the consultation process with the Northern Valley Yokuts in October 2021. The results of this consultation process will be summarized in the Draft EIR.

XIX. UTILITIES AND SERVICE SYSTEMS -- WOULD THE PROJECT:

	Potentially Significant Impact	*Less Than Significant with Mitigation Incorporation*	*Less Than Significant Impact*	*No Impact*
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 telecommunication 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 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 projects projected demand in addition to the providers 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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-e): Implementation of the proposed project would result in increased demands for utilities to serve the project. As such, the EIR will examine each of the environmental issues listed in the checklist above in the EIR and will decide whether the proposed project has the potential to have a significant impact to utilities and service systems. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

The EIR will analyze wastewater, water, and storm drainage infrastructure, as well as other utilities (i.e. solid waste, gas, electric, etc.), that are needed to serve the proposed project. The wastewater assessment will include a discussion of the proposed collection and conveyance system, treatment methods and capacity at the treatment plants, disposal location(s) and methods, and the potential for recycled water use for irrigation. The EIR will analyze the impacts associated with on-site and off-site construction of the conveyance system, including temporary impacts associated with the construction phase. The proposed infrastructure will be presented. This will likely include a system of gravity pipes, pump station(s), and a forcemain(s). The EIR will provide a discussion of the wastewater treatment plants that are within proximity to the project site, including current demand and capacity at these plants. The analysis will discuss the disposal methods and location, including environmental impacts and permit requirements associated with disposal of treated wastewater.

The storm drainage assessment will include a discussion of the proposed drainage collection system including impacts associated with on-site and off-site construction of the storm drainage system. The EIR will identify permit requirements and mitigation needed to minimize and/or avoid impacts. The EIR will include an assessment for consistency with City Master Storm Drain Plan.

The EIR will analyze the impacts associated with on-site and off-site construction of the water system, including temporary impacts associated with the construction phase. The EIR will also identify permit requirements and mitigation needed to minimize and/or avoid impacts, and will present the proposed infrastructure as provided by the project site engineering reports.

The EIR will also address solid waste collection and disposal services for the proposed project. This will include an assessment of the existing capacity and project demands. The assessment will identify whether there is sufficient capacity to meet the project demands.

The EIR will provide thresholds of significance, a consistency analysis, cumulative impact analysis, and a discussion of feasible mitigation measures that should be implemented to reduce impacts associated with utilities and service systems.

XX. WILDFIRE – IF LOCATED IN OR NEAR STATE RESPONSIBILITY AREAS OR LANDS CLASSIFIED AS VERY HIGH FIRE HAZARD SEVERITY ZONES, WOULD THE PROJECT:

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
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	

RESPONSES TO CHECKLIST QUESTIONS

Responses a-d): The project site and surrounding area are not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. [2] Therefore, this CEQA topic is not relevant to the proposed project and does not require further analysis. For these reasons, the impacts related to wildfire would be ***less than significant*** and no additional analysis of this CEQA topic is warranted.

[2] Cal Fire, *Fire Hazard Severity Zone Maps*, https://osfm.fire.ca.gov/divisions/wildfire-planning-engineering/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/, accessed September 24, 2020.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	***Less Than Significant with Mitigation Incorporation***	***Less Than Significant Impact***	***No Impact***
a) Does the project 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			

RESPONSES TO CHECKLIST QUESTIONS

Responses a-c): It has been determined that the potential for the proposed project to: 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; eliminate important examples of the major periods of California history or prehistory; create cumulatively considerable impacts; or adversely affect human beings will require more detailed analysis in an EIR. As such, the EIR will examine each of these environmental issues in the EIR and will decide whether the proposed project has the potential to have a significant impact on these environmental issues. At this point a definitive impact conclusion for each of these environmental topics will not be made, rather all are considered ***potentially significant*** until a detailed analysis is prepared in the EIR.

REPORT PREPARERS

This document was prepared by De Novo Planning Group, Inc. of El Dorado Hills under the direction of the City of Lathrop. De Novo Planning Group staff participating in document preparation included the following:

- Steve McMurtry, Principal Planner
- Josh Smith, AICP, Senior Planner
- Elise Carroll, Senior Planner

REFERENCES

Cal Fire. Fire Hazard Severity Zones Maps. https://osfm.fire.ca.gov/divisions/wildfire-planning-engineering/wildland-hazards-building-codes/fire-hazard-severity-zones-maps/.

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NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT AND SCOPING MEETING

DATE: December 22, 2022

TO: State Clearinghouse
State Responsible Agencies
State Trustee Agencies
Other Public Agencies
Organizations and Interested Persons

SUBJECT: Notice of Preparation of an Environmental Impact Report and Scoping Meeting for the Singh Petroleum Investments Project

LEAD AGENCY: City of Lathrop
Community Development Department, Planning Division
390 Towne Centre Drive
Lathrop, CA 95330

PROJECT PLANNER: Rick Caguiat, Assistant Community Development Director
rcaguiat@ci.lathrop.ca.us
(209) 941-7296

PURPOSE OF NOTICE: This is to notify public agencies and the general public that the City of Lathrop, as the Lead Agency, will prepare an Environmental Impact Report (EIR) for the Singh Petroleum Investments Project. The City of Lathrop is interested in the input and/or comments of public agencies and the public as to the scope and content of the environmental information that is germane to the agencies' statutory responsibilities in connection with the proposed project. Responsible/trustee agencies will need to use the EIR prepared by the City of Lathrop when considering applicable permits, or other approvals for the proposed project.

COMMENT PERIOD: The Notice of Preparation public review period will begin on December 22, 2022 and end on January 20, 2023. Consistent with the time limits mandated by State law, your input, comments or responses must be received in writing and sent at the earliest possible date, but not later than 5:00 PM, January 20, 2023.

Please send your comments/input (including the name for a contact person in your agency) to: Attn: Rick Caguiat, Assistant Community Development Director, at the City of Lathrop, 390 Towne Centre Drive, Lathrop, CA 95330; or by e-mail to planning@ci.lathrop.ca.us.

SCOPING MEETING: On January 11, 2023, 6:00 PM, the City of Lathrop will conduct a public scoping meeting to solicit input and comments from public agencies and the general public on the proposed project and scope of the EIR. The scoping meeting will be held in-person at the Lathrop City Council Chambers, located at 390 Towne Centre Drive, Lathrop, CA, 95330. If you have any

questions regarding the scoping meeting, contact Rick Caguiat, Assistant Community Development Director, at (209) 941-7290 or planning@ci.lathrop.ca.us.

PROJECT LOCATION AND SETTING: The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road. Figures 1 and 2 show the Project's regional location and vicinity. Figure 3 provides the APN map.

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 1,000 feet to the northeast of the Project site. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. An aerial view of the Project site and its surrounding uses is provided in Figure 4.

PROJECT DESCRIPTION: The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators. The Phase I site plan for the proposed Project is shown in Figure 7 and the Phase II site plan for the proposed Project is shown in Figure 8.

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed as an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-of-way (ROW) dedication for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I Project site and is identified as future ROW for future interchange improvements.

Phase II of the Project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road.

For more details regarding the operations, signage, landscaping, circulation, and utility improvements, please see the Project Description in the attached Initial Study.

PROJECT APPROVALS: The City of Lathrop is the Lead Agency for the proposed project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050.

If the City Council of the City of Lathrop certifies the EIR in accordance with CEQA requirements, the City may use the EIR to support the following actions:

- Certification of the EIR;
- Adoption of the Mitigation Monitoring and Reporting Program;
- General Plan Amendment from A/G (County) to FC for APN 191-250-06;
- Annexation approval and the annexation of the subject parcels by the City of Lathrop and San Joaquin Local Agency Formation Commission;
- Zoning Amendments and Prezoning for annexation of the Project site;
- Approval of CUP;
- Approval of Site Plan Review;
- Approval of Improvement Plans;
- Approval of Grading Plans;
- Approval of Building Permits;
- Approval of Project Utility Plans.

The following agencies may rely on the certified EIR to issue permits or approve certain aspects of the proposed project:

- San Joaquin Local Agency Formation Commission (LAFCo) - Annexation;
- San Joaquin Council of Governments (SJCOG) - Compliance with Airport Land Use Compatibility Plan (ALUCP) and San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) Compliance;
- San Joaquin Valley Air Pollution Control District (SJVAPCD) - Approval of construction-related air quality permits. Additionally, as an industrial development, the Project may be subject to Indirect Source Review (ISR) by the SJVAPCD;
- Central Valley Regional Water Quality Control Board (CVRWQCB) - Storm Water Pollution Prevention Plan (SWPPP) approval prior to construction activities pursuant to the Clean Water Act and water quality certification pursuant to Section 401 of the Clean Water Act;
- Lathrop Manteca Fire District - Plan check of the site plan and roadway improvements for adequate emergency vehicle access and fire flow capabilities.

AREAS OF POTENTIAL IMPACTS: The Draft EIR will examine most of the environmental areas contained in Appendix G of the State CEQA Guidelines. The topics to be addressed in the Draft EIR include: Aesthetics, Agricultural and Forest Resources, Air Quality, Biological Resources, Cultural Resources, Energy, Geology and Soils, Greenhouse Gases and Climate Change, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Noise, Public Services and Recreation, Transportation, Tribal Cultural Resources, Utilities, Cumulative Impacts, and Growth Inducing Impacts.

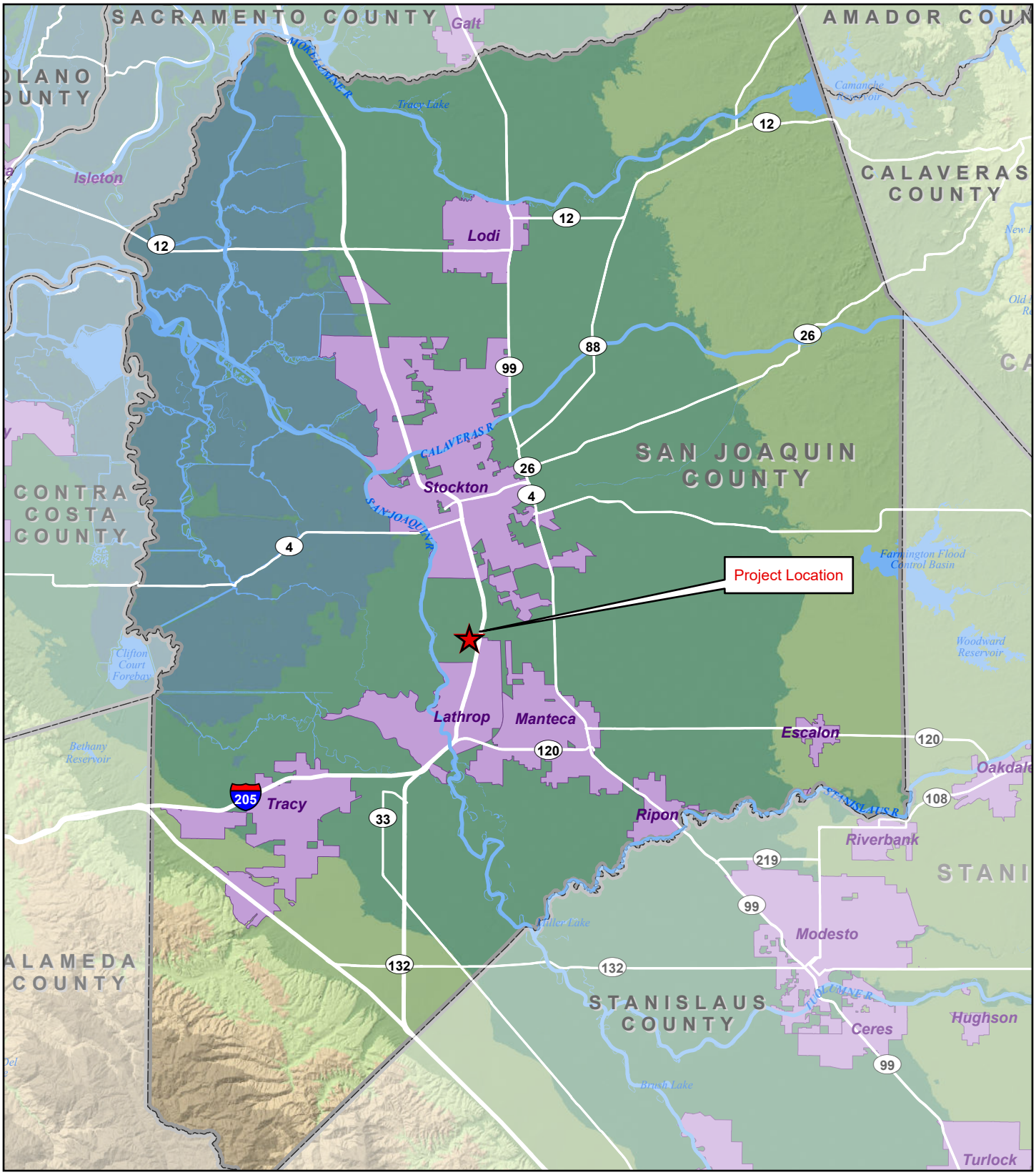
INITIAL STUDY: An Initial Study has been prepared for this project. The Initial Study identifies environmental areas/issues that would result in No Impact or a Less than Significant Impact, and environmental areas/issues that would result in a Potentially Significant Impact. All Potentially Significant Impact areas/issues will be addressed in greater detail in the Draft EIR. Areas/issues that would result in No Impact or a Less than Significant Impact, as identified in the Initial Study, will not be addressed further in the Draft EIR.

ADDITIONAL INFORMATION: A copy of the Initial Study is available on the City's website at: https://www.ci.lathrop.ca.us/com-dev/page/public-review-documents

Signature: _____ Date: _____

Name/Title: Rick Caguiat, Assistant Community Development Director

Phone/Email: (209) 941-7290; planning@ci.lathrop.ca.us



SINGH PETROLEUM INVESTMENT PROJECT

Figure 1. Regional Map

Legend

- Project Location
- Incorporated Area
- County Boundary

0 2½ 5 Miles

Sources: California State Geoportal. Map date: December 13, 2022.

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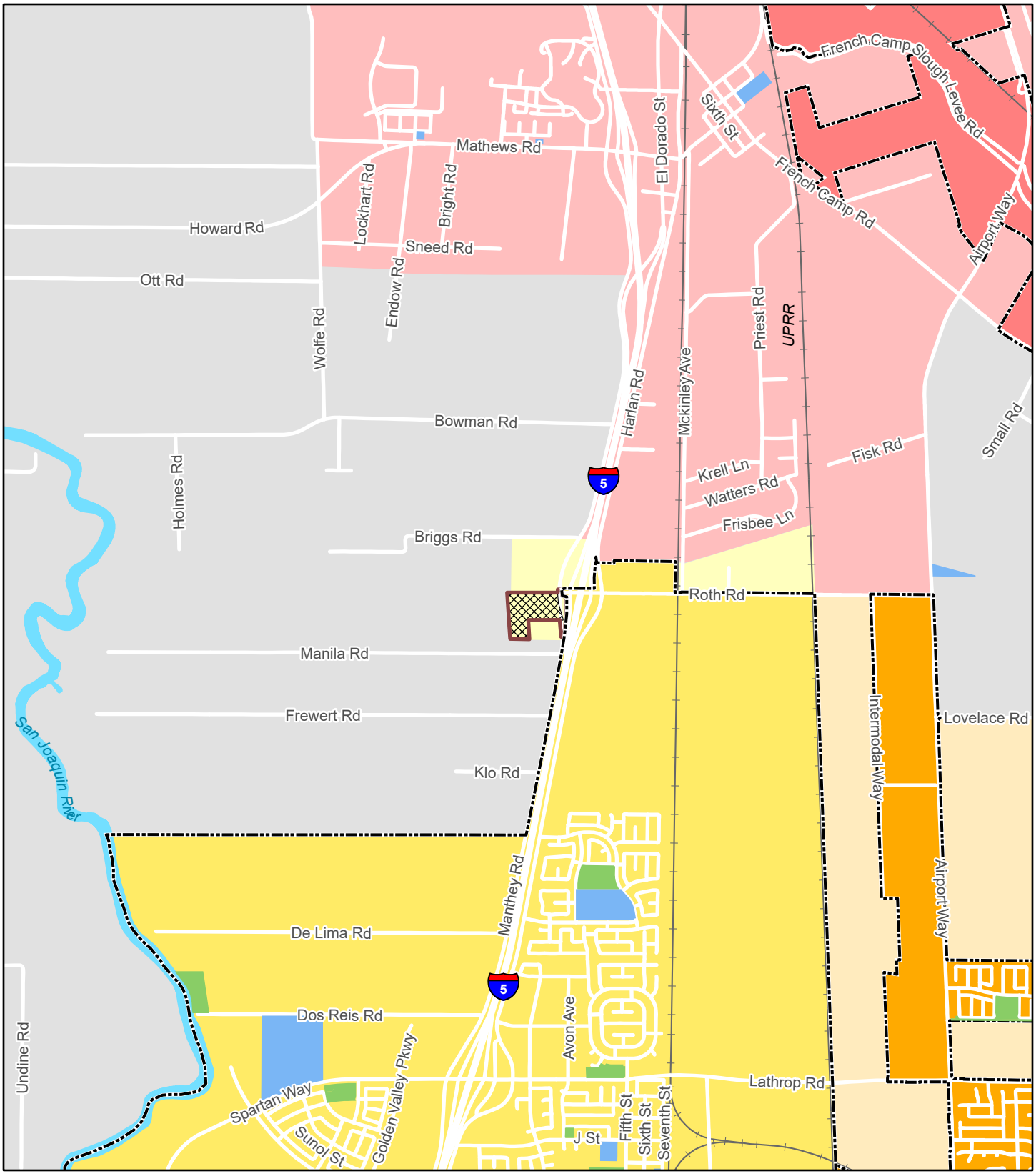

Legend

- Project Site / Annexation Area
- Development Area
- School
- Park
- City of Lathrop
- City of Manteca
- City of Stockton
- Lathrop SOI
- Manteca SOI
- Stockton SOI

SINGH PETROLEUM INVESTMENT PROJECT

Figure 2. Vicinity Map

0 1,000 2,000 Feet

Sources: San Joaquin County Assessor parcels, July 2022; San Joaquin County GIS. Map date: December 13, 2022.

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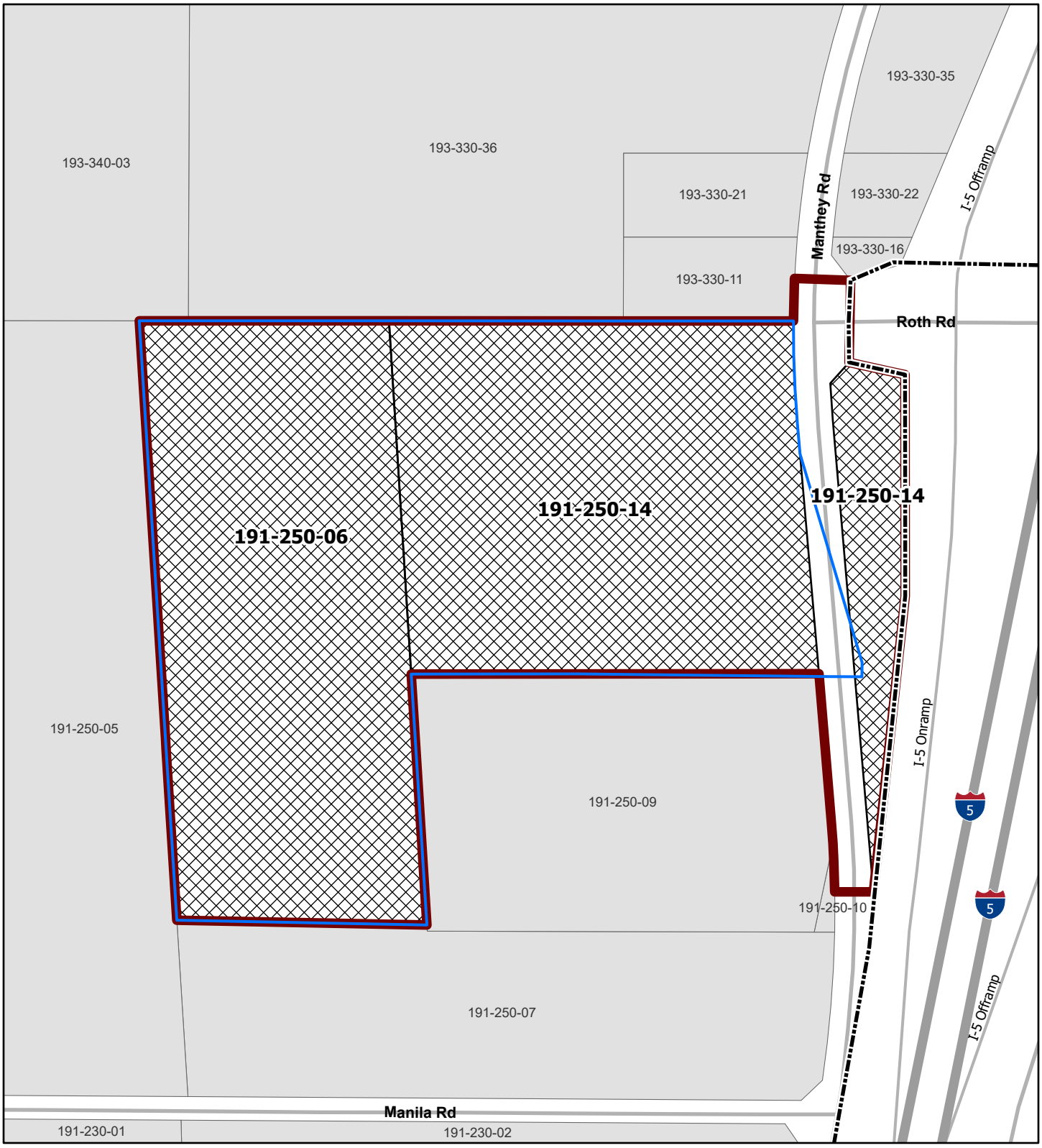

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Parcels to be Annexed
- Other Assessor Parcels

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 3. Assessor Parcel Map

0 100 200
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 4. Aerial View of Project

0 250 500
Feet

Sources: San Joaquin County GIS; ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

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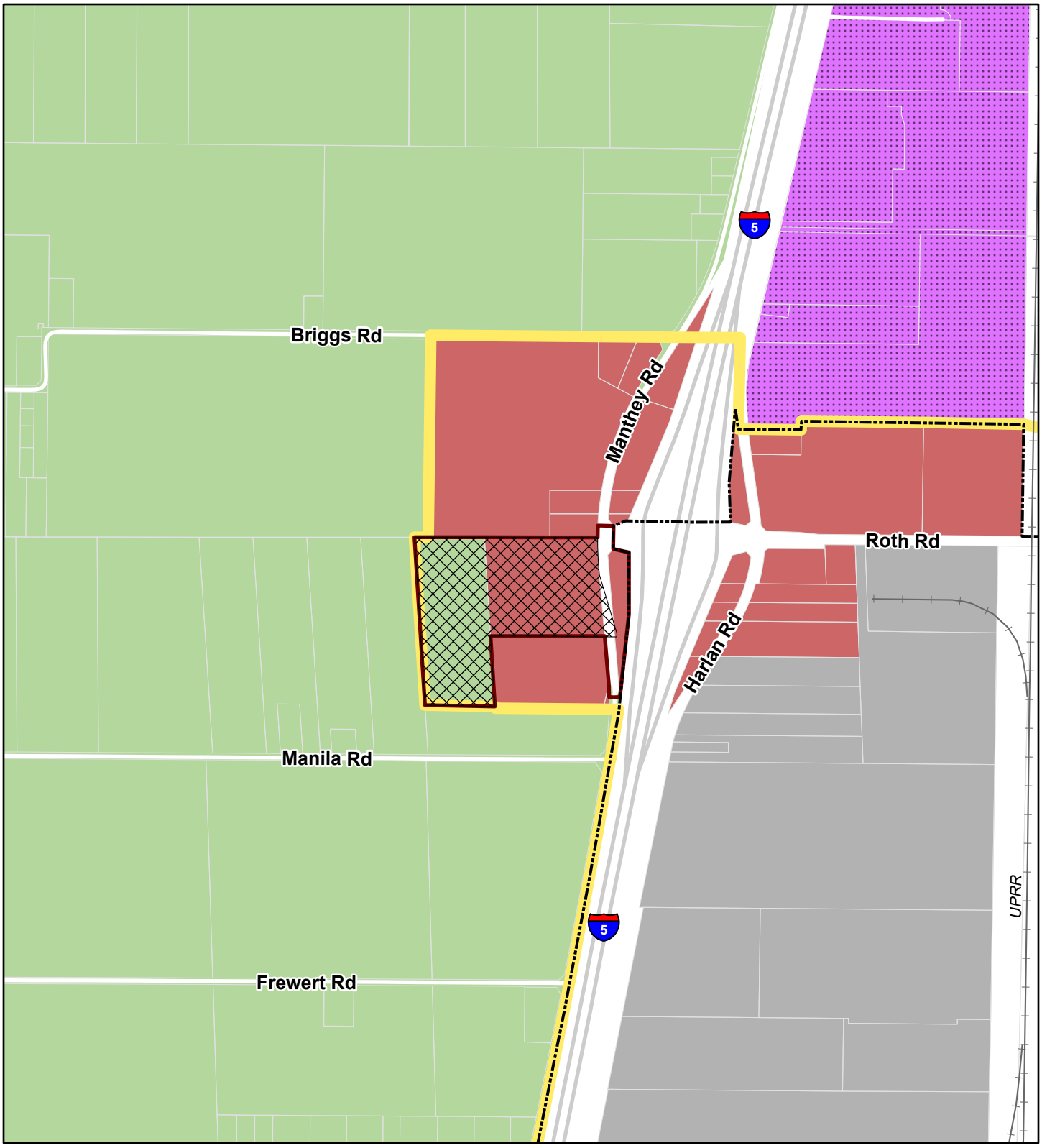

Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 5. Existing General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 13, 2022.

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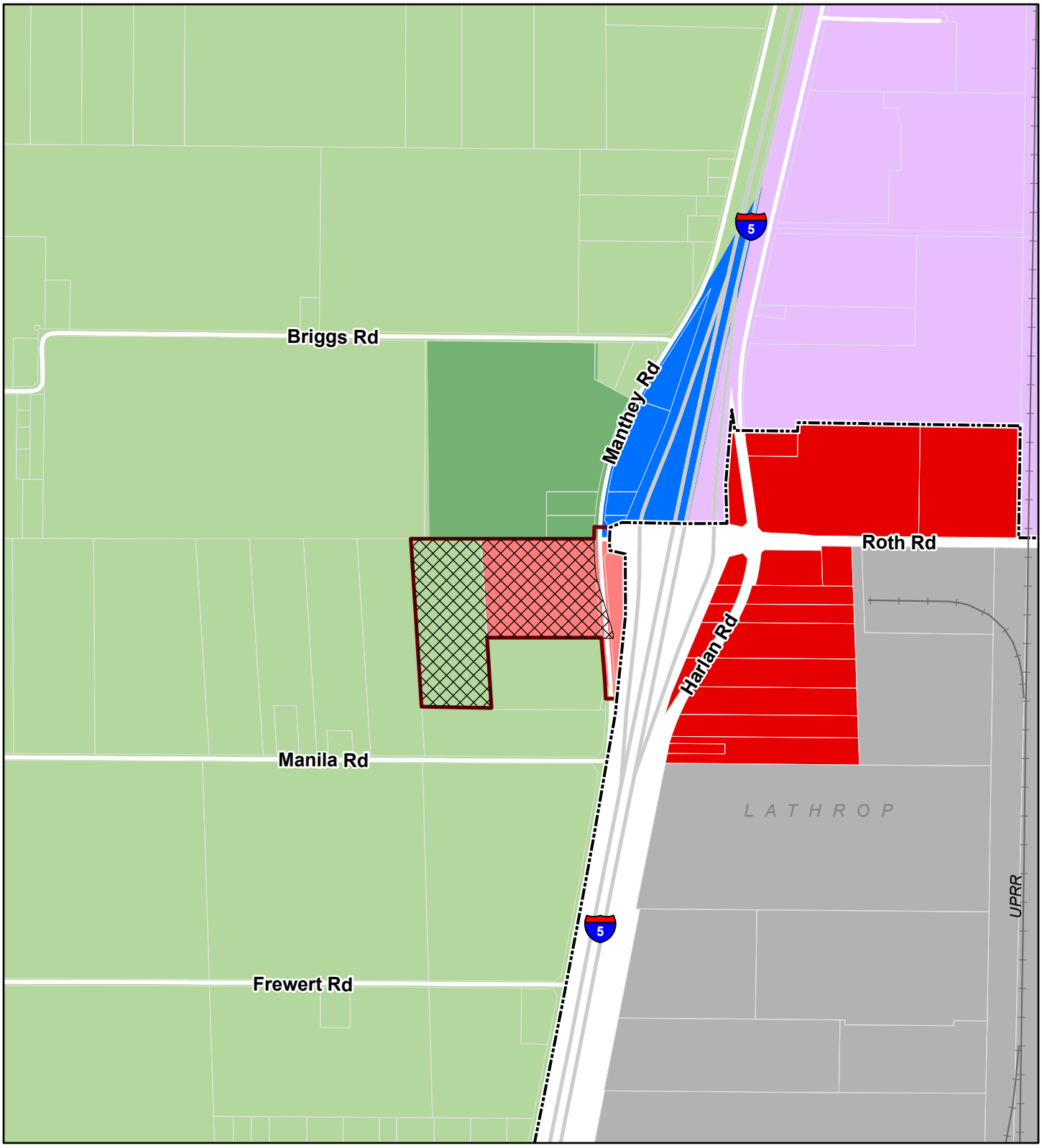

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- C-FS: Freeway Service Commercial
- I-G: General Industrial
- I-W: Warehouse Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 6. Existing Zoning Designations

0 250 500
Feet

Sources: San Joaquin County GIS. Map date: December 14, 2022.

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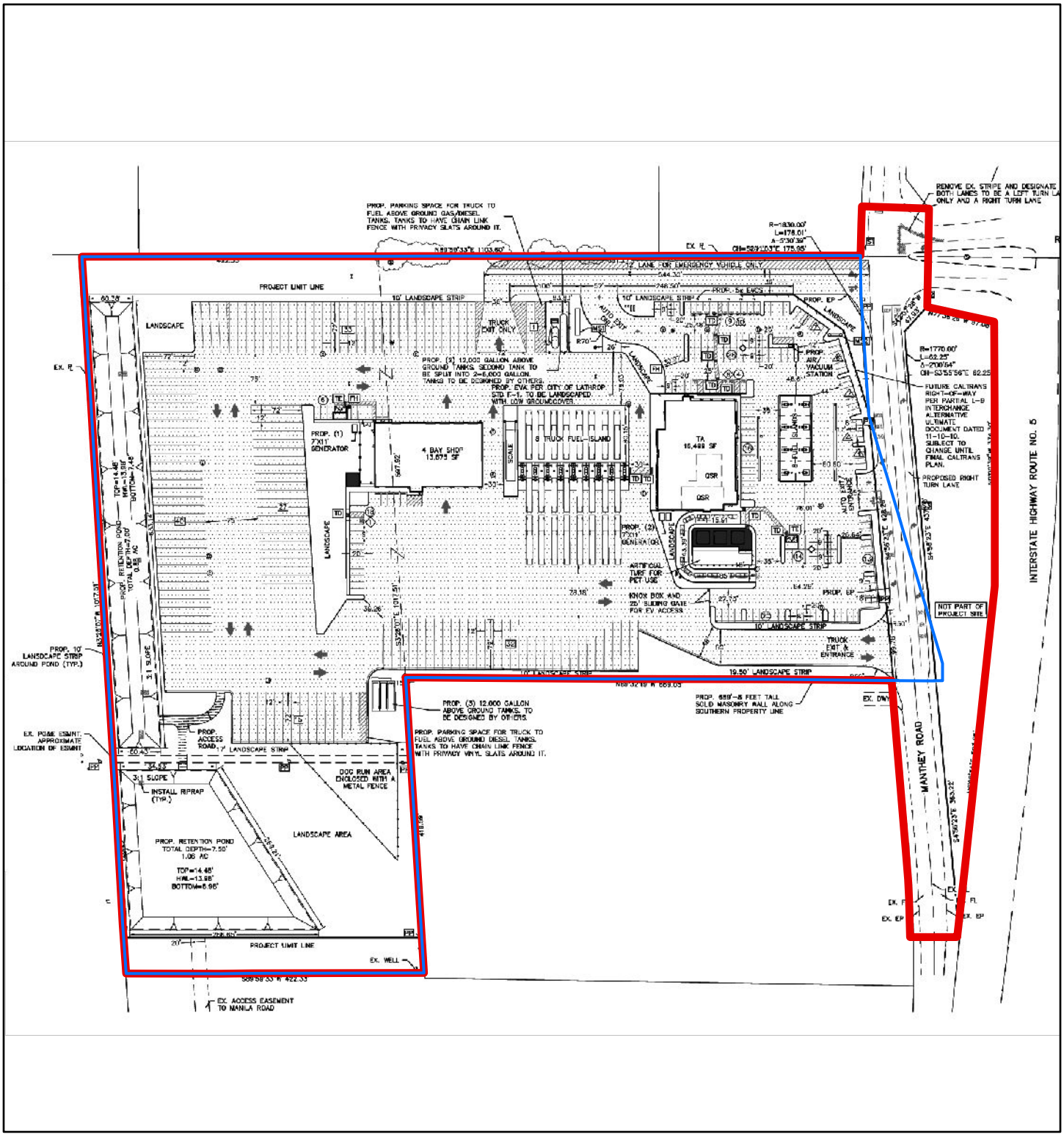

SINGH PETROLEUM INVESTMENT PROJECT

Legend

- Project Site/Annexation Area
- Development Area

Figure 7. Site Plan Phase I - Interim

0 50 100 200
Feet

Sources: Wong Engineers, Inc, 9-15-2022 . Map date: December 14, 2022.

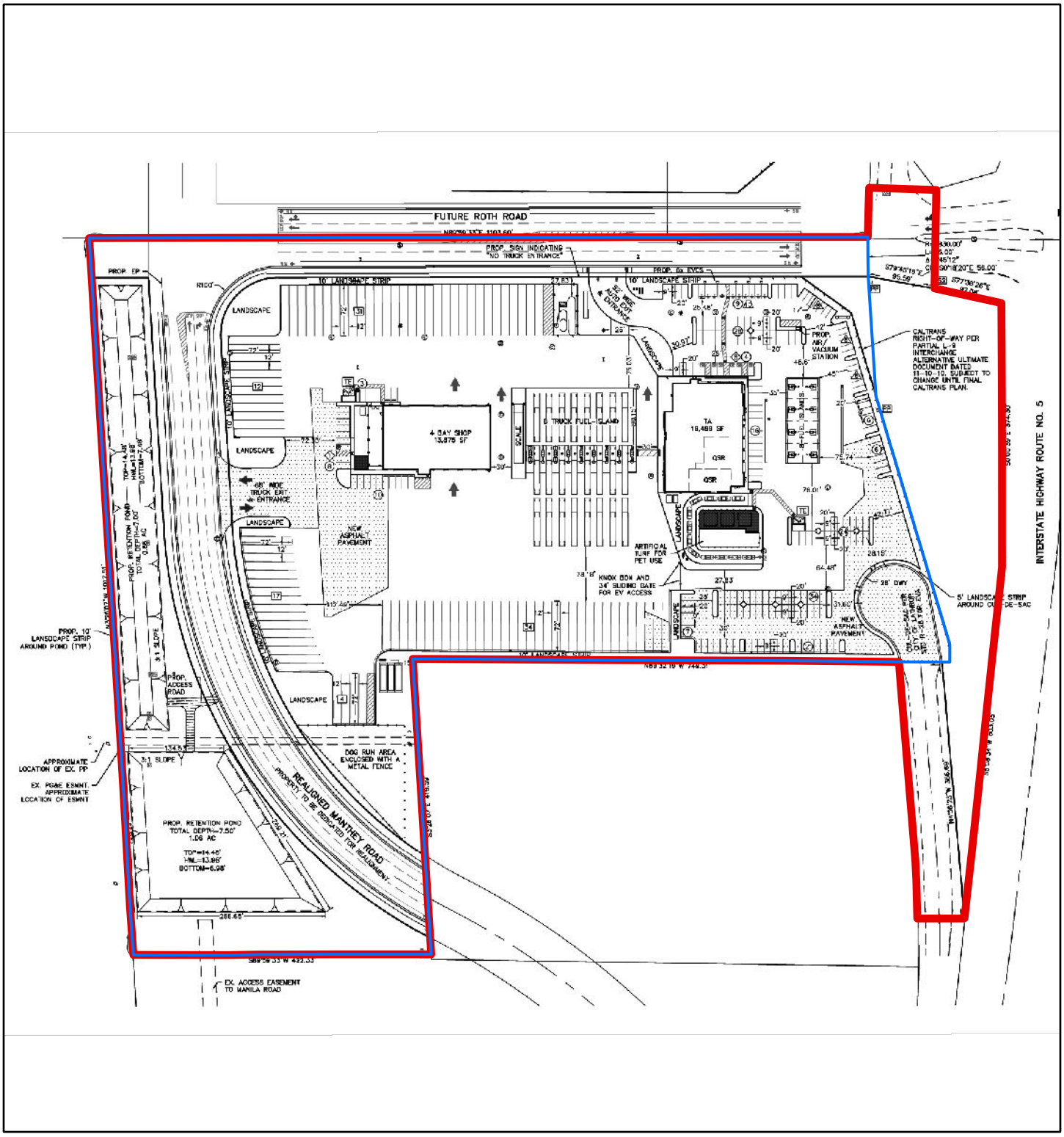

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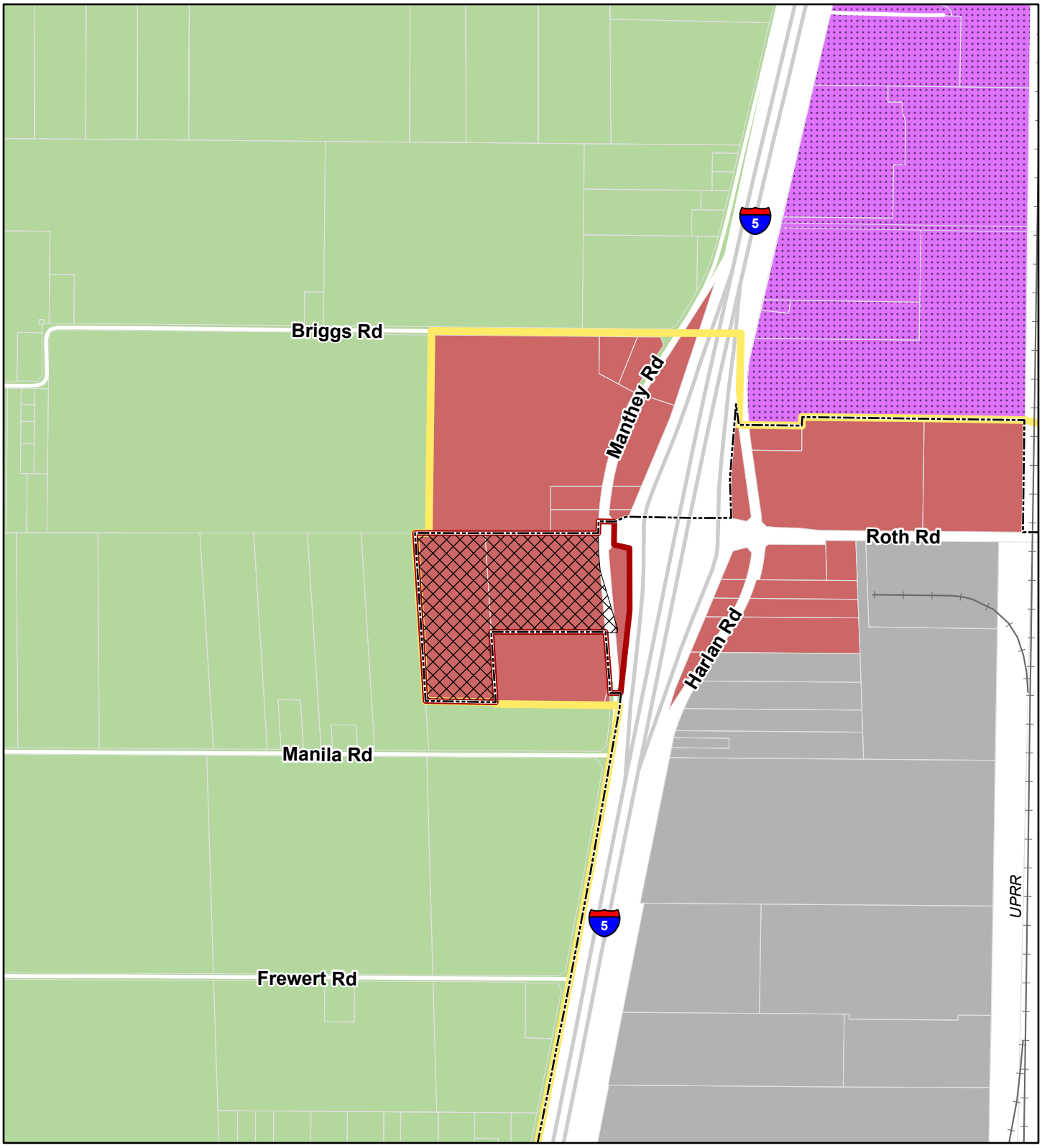
Figure 8. Site Plan Phase II - Buildout

Legend

- Project Area/Annexation Area
- Development Area

0 50 100 200
Feet

Sources: Wong Engineers, Inc, 9-15-2022 . Map date: December 14, 2022.



Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits (Proposed)
- Lathrop Sphere of Influence
- Parcel Boundary

City of Lathrop General Plan Designation

- FC: Freeway Commercial
- LI: Limited Industrial

San Joaquin County General Plan Designation

- Agriculture/General

City of Stockton General Plan Designation

- Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 9. Proposed General Plan Land Use Designations

0 250 500
Feet

Sources: San Joaquin County GIS; City of Stockton General Plan 2040; City of Lathrop General Plan 2022. Map date: December 14, 2022.

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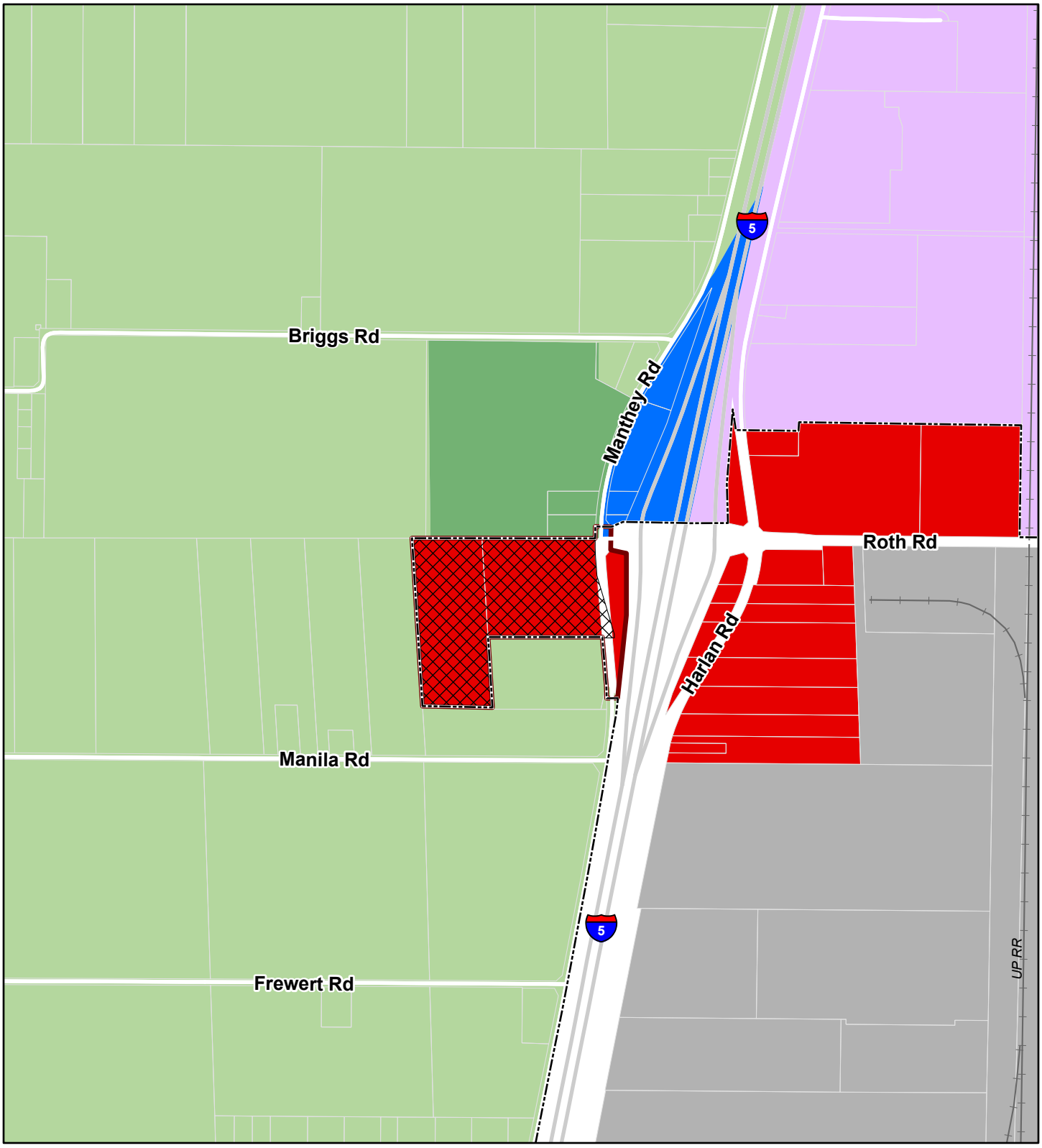

Legend

- Project Site/Annexation Area
- Development Area
- Lathrop City Limits (Proposed)

City of Lathrop Zoning Designation

- CH: Highway Commercial
- IL: Industrial Limited

San Joaquin County Zoning Designation

- AG-40: General Agriculture
- AU-20: Agriculture Urban Reserve
- I-G: General Industrial
- I-W: Warehouse Industrial

SINGH PETROLEUM INVESTMENTS PROJECT

Figure 10. Proposed Zoning Designations

0 250 500
Feet

Sources: San Joaquin County GIS. Map date: December 14, 2022.

De Novo Planning Group
A Land Use Planning, Design, and Environmental Firm

California Department of Transportation

OFFICE OF THE DISTRICT 10 DIRECTOR
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January 19, 2023

10-SJ-5-PM R019.501
Singh Petroleum Travel Center
GPA-20-60, REZ-20-61, CUP-20-62,
SPR-20-63, ANX-20-64

David Niskanen
Community Development Department, Planning Division
City of Lathrop
390 Towne Centre Drive
Lathrop, CA 95330

Dear Mr. Niskanen:

The California Department of Transportation appreciates the opportunity to review the proposed full service Travel Plaza at 11293 S. Manthey Road and 169 W. Manilla Road, Lathrop. The project will include eight truck fuel islands, eight automobile fuel islands, a four-bay truck and trailer repair building, and a commercial building. There will be a total of 243 truck/trailer parking spaces and 444 automobile parking. The Department has the following comments as this project has the potential to significantly impact the interchange:

1. This project is to be built in 2 phases. Caltrans must review the TIS Operational Analysis for each phase of this project. The TIS report and Synchro Simtraffic electronic files must meet all comments in our previous letter (July 5, 2022) for Phase I and Phase II conditions. The comments from that letter are included below. The TIS report must also show the construction Year for phase I and construction Year for Phase II. Please submit this information to Caltrans for review and comment prior to project approval.

2. According to the submitted site plan, the proposed facility will be accessed through Manthey Road in/out. In phase II they are closing Manthey Road and introduce a new road "Realigned Manthey Road." Although the Realigned Manthey Road may be in County jurisdiction, the TIS must discuss how traffic impacts on State Ramps Intersections will be mitigated in the event that Phase II is not built.

3. Please include a site plan showing the "Realigned Manthey Road" to the west of the site in greater detail.

4. Caltrans would like to review the pre and post construction runoff calculations and drainage plans to understand flow patterns. Additional review will be done once drainage plans and calculations are submitted. The proposed site development is adjacent to the state route. The developer needs to ensure that the existing State

drainage facilities will not be significantly impacted by the project. If historical undeveloped topography shows drainage from this site flowed into the State Right-of-Way, it may continue to do so with the conditions that peak flows may not be increased from the pre-construction quantity and the site runoff be treated to meet present storm water quality standards. If historical undeveloped topography shows drainage from this site did not flow into the State Right-of-Way, then it will not be allowed to flow into the State Right-of-Way at this time.

Comments from previous letter dated July 5, 2022 are still unaddressed:

1. The Traffic Operation Analysis provided to Caltrans only analyzed the existing conditions at southbound I-5 ramps/Roth Road intersection. Please submit a Traffic Impact Study (TIS) to Caltrans for review and comment. This TIS should include operational analysis and 95th percentile queue for both northbound and southbound ramp intersections at I-5 of all the following scenarios on how this project will impact state facilities.
    a. Existing Conditions.
    b. Project Only Condition.
    c. Existing Conditions plus Project.
    d. Cumulative Conditions (Existing Conditions plus Other Approval and Pending Project without this project).
    e. Cumulative Conditions with this project.

2. Synchro/Simtraffic version 10 electronic files to include all scenarios and should be based on Simtraffic 5 runs, four 15-minute intervals with 10-minute seeding period. Please include these files in your submittal to Caltrans.

3. Synchro/Simtraffic file must be superimposed on the Areal Map due to intersections being closely spaced.

4. Please contact us to coordinate with our Caltrans Travel Forecasting Branch early on to ensure that we all agree upon traffic volumes used for the TIS.

5. The TIS should include a trip generation Figure Map to show the proposed facility's trip distribution percentage and volume on I-5 and Roth Road interchange ramps.

6. The TIS should also have a section on vehicle miles traveled (VMT) and include any pedestrian and crosswalk at intersections.

7. STAA Truck off-tracking analysis is required at interchanges, ramps intersections. The analysis needs show off-tracking does not encroach onto opposing lanes, will not kink within the turning paths, and allows 2 ft of lateral clearance provided between the truck wheel paths and edge of pavement that may be close to dikes/curbs. Please submit this analysis to Caltrans for review and comment.

8. This project requires the appropriate STAA Terminal Access approvals. Terminal Access application procedures can be found at the following link: http://www.dot.ca.gov/trafficops/trucks/ta-process.html

9. The project proponent will be responsible for any STAA improvements necessitated by this project. These improvements must be complete prior to the business opening.

10. Please submit the information requested above to Caltrans for review and comment prior to project approval. Caltrans will have additional comments after review.

If you have any questions or would like to set up a virtual meeting to further discuss this project or the Scope of Work for the TIS, please contact me at 209-483-2582 or Nicholas Fung at (209) 986-1552.

Sincerely,

Tom Dumas
Chief, Office of Metropolitan Planning

NATIVE AMERICAN HERITAGE COMMISSION

GOVERNOR'S OFFICE OF PLANNING AND RESEARCH
Dec 30 2022
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December 29, 2022

Rick Caguiat
City of Lathrop
390 Towne Centre Drive
Lathrop, CA 95330

Re: 2022120596, Singh Petroleum Investments Project, San Joaquin County

Dear Ms. Caguiat:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that 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. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).

2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.

3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).

4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:

- **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
- **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:

- **a.** If part or all of the APE has been previously surveyed for cultural resources.
- **b.** If any known cultural resources have already been recorded on or adjacent to the APE.
- **c.** If the probability is low, moderate, or high that cultural resources are located in the APE.
- **d.** If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.

- **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
- **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

cc: State Clearinghouse

20 January 2023

Rick Caguiat
City of Lathrop
390 Towne Centre Drive
Lathrop, CA 95330
planning@ci.lathrop.ca.us

COMMENTS TO REQUEST FOR REVIEW FOR THE NOTICE OF PREPARATION FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, SINGH PETROLEUM INVESTMENTS PROJECT, SCH#2022120596, SAN JOAQUIN COUNTY

Pursuant to the State Clearinghouse's 22 December 2022 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Notice of Preparation for the Draft Environmental Impact Report* for the Singh Petroleum Investments Project, located in San Joaquin County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore, our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of

Administrative Law (OAL) and in some cases, the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues. For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:
http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Implementation Policy is available on page 74 at:
https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201805.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit), Construction General Permit Order No. 2009-0009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). For more information on the Construction General Permit, visit the State Water Resources Control Board website at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACE). If a Section 404 permit is required by the USACE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements. If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications. For more information on the Water Quality Certification, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/water_issues/water_quality_certification/

Waste Discharge Requirements – Discharges to Waters of the State

If USACE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation. For more information on the Waste Discharges to Surface Water NPDES Program and WDR processes, visit the Central Valley Water Board website at:https://www.waterboards.ca.gov/centralvalley/water_issues/waste_to_surface_water/

Projects involving excavation or fill activities impacting less than 0.2 acre or 400 linear feet of non-jurisdictional waters of the state and projects involving dredging activities impacting less than 50 cubic yards of non-jurisdictional waters of the state may be eligible for coverage under the State Water Resources Control Board Water Quality Order No. 2004-0004-DWQ (General Order 2004-0004). For more information on the General Order 2004-0004, visit the State Water Resources Control Board website at: https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2004/wqo/wqo2004-0004.pdf

Dewatering Permit

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Threat General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Threat Waiver) R5-2018-0085. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at: http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf

For more information regarding the Low Threat Waiver and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2018-0085.pdf

Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Limited Threat Discharges to Surface Water* (Limited Threat General Order). A complete Notice of Intent must be submitted to the Central Valley Water Board to obtain coverage under the Limited Threat General Order. For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076-01.pdf

NPDES Permit

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit. For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at: https://www.waterboards.ca.gov/centralvalley/help/permit/

If you have questions regarding these comments, please contact me at (916) 464-4684 or Peter.Minkel2@waterboards.ca.gov.

Peter Minkel

Peter Minkel
Engineering Geologist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento

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)

SJMSCP RESPONSE TO LOCAL JURISDICTION (RTLJ)
ADVISORY AGENCY NOTICE TO SJCOG, Inc.

To: Rick Caguiat, City of Lathrop Community Development Department, Planning Division

From: Laurel Boyd, SJCOG, Inc. Phone: (209) 235-0574 Email: boyd@sjcog.org

Date: December 27, 2022

-Local Jurisdiction Project Title: Notice of Preparation of an EIR and Scoping Meeting for the Singh Petroleum Investments Project

Assessor Parcel Number(s): 191-250-14, -06

Local Jurisdiction Project Number: N/A

Total Acres to be converted from Open Space Use: Unknown

Habitat Types to be Disturbed: Agricultural Habitat Land

Species Impact Findings: Findings to be determined by SJMSCP biologist.

Dear Mr. Caguiat:

SJCOG, Inc. has reviewed the project referral for the Notice of Preparation of an Environmental Impact Report & Scoping Meeting for the Singh Petroleum Investments Project. This project consists of the approval of the development of a 19.63-acre Development Area for regional travel serving uses. Implementation of the project would involve the development of fueling facilitates, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

Phase I of the project will develop 18.61 acres out of 19.63 acre Development Area. The phase I area is designed as an interim basis until future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 will be constructed. Phase I will account for the future right-of-way (ROW) dedicated for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I project site is identified as future ROW for future interchange improvements.

Phase II of the project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of the Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road. The project site is located to the west of Interstate 5 and south of Briggs Road, Lathrop (APN: 191-250-14, -06).

The City of Lathrop is a signatory to San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP). Participation in the SJMSCP satisfies requirements of both the state and federal endangered species acts, and ensures that the impacts are mitigated below a level of significance in compliance with the California Environmental Quality Act (CEQA). The LOCAL JURISDICTION retains responsibility for ensuring that the appropriate Incidental Take Minimization Measure are properly implemented and monitored and that appropriate fees are paid in compliance with the SJMSCP. Although participation in the SJMSCP is voluntary, Local Jurisdiction/Lead Agencies should be aware that if project applicants choose against participating in the SJMSCP, they will be required to provide alternative mitigation in an amount and kind equal to that provided in the SJMSCP.

This Project is subject to the SJMSCP. This can be up to a 30 day process and it is recommended that the project applicant contact SJMSCP staff as early as possible. It is also recommended that the project applicant obtain an information package. http://www.sjcog.org

Please contact SJMSCP staff regarding completing the following steps to satisfy SJMSCP requirements:

- Schedule a SJMSCP Biologist to perform a pre-construction survey ***prior to any ground disturbance***

- SJMSCP Incidental take Minimization Measures and mitigation requirement:

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.

- Receive your Certificate of Payment and release the required permit

It should be noted that if this project has any potential impacts to waters of the United States [pursuant to Section 404 Clean Water Act], it would require the project to seek voluntary coverage through the unmapped process under the SJMSCP which could take up to 90 days. It 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 be required from each of these resource agencies prior to grading the project site.

If you have any questions, please call (209) 235-0600.

S J C O G, Inc.

San Joaquin County Multi-Species Habitat Conservation & Open Space Plan

555 East Weber Avenue ● Stockton, CA 95202 ● (209) 235-0600 ● FAX (209) 235-0438

SJMSCP HOLD

TO: Local Jurisdiction: Community Development Department, Planning Department, Building Department, Engineering Department, Survey Department, Transportation Department, Other: _____

FROM: Laurel Boyd, SJCOG, Inc.

DO NOT AUTHORIZE SITE DISTURBANCE
DO NOT ISSUE A BUILDING PERMIT
DO NOT ISSUE _____ FOR THIS PROJECT

The landowner/developer for this site has requested coverage pursuant to the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP). In accordance with that agreement, the Applicant has agreed to:

1) SJMSCP Incidental Take Minimization Measures and mitigation requirement:

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.
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   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.

Project Title: NOP of an EIR and Scoping Meeting for the Singh Petroleum Investments Project

Assessor Parcel #s: 191-250-06, -14

T _____, R_____, Section(s): _____

Local Jurisdiction Contact: Rick Caguiat

The LOCAL JURISDICTION retains responsibility for ensuring that the appropriate Incidental Take Minimization Measures are properly implemented and monitored and that appropriate fees are paid in compliance with the SJMSCP.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

January 19, 2023

Rick Caguiat
Assistant Community Development Director
City of Lathrop
390 Towne Centre Drive
Lathrop, CA, 95330

Project: Notice of Preparation of a Draft Environmental Impact Report for the Singh Petroleum Investments Project

District CEQA Reference No: 20221694

Dear Mr. Caguiat:

The San Joaquin Valley Air Pollution Control District (District) has reviewed the Notice of Preparation (NOP) from the City of Lathrop (City) for the Singh Petroleum Investment Project. Per the NOP, the project consists of the development of 19.63-acres for regional travel services that include a 13,375 SF 4 Bay Shop, 8 Truck Fueling Station, 16,499 SF Travel Centers of America identified as TA with two Quick Service Restaurants inside the TA, 8 Auto Fueling Station, and parking (Project). The Project is located west of Interstate 5 and is bordered by Manthey Road and Roth Road, in Lathrop, CA.

The District offers the following comments regarding the Project:

1) Project Related Emissions

At the federal level under the National Ambient Air Quality Standards (NAAQS), the District is designated as extreme nonattainment for the 8-hour ozone standards and serious nonattainment for the particulate matter less than 2.5 microns in size (PM2.5) standards. At the state level under California Ambient Air Quality Standards (CAAQS), the District is designated as nonattainment for the 8-hour ozone, PM10, PM2.5 standards.

The District's initial review of the Project concludes that emissions resulting from construction and/or operation of the Project may exceed any of the following significance thresholds as identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://www.valleyair.org/transportation/GAMAQI.pdf.

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (661) 392-5500 FAX: (661) 392-5585

www.valleyair.org www.healthyairliving.com

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The District recommends that a more detailed preliminary review of the Project be conducted for the Project's construction and operational emissions.

1a) Construction Emissions

The District recommends, to reduce impacts from construction-related diesel exhaust emissions, the Project should utilize the cleanest available off-road construction equipment, including the latest tier equipment.

1b) Operational Emissions

Operational (ongoing) air emissions from mobile sources and stationary sources should be analyzed separately. For reference, the District's significance thresholds are identified in the District's Guidance for Assessing and Mitigating Air Quality Impacts: https://www.valleyair.org/transportation/GAMAQI.pdf.

Recommended Mitigation Measure: At a minimum, project related impacts on air quality should be reduced to levels of significance through incorporation of design elements such as the use of cleaner Heavy Heavy-Duty (HHD) trucks and vehicles, measures that reduce Vehicle Miles Traveled (VMTs), and measures that increase energy efficiency. More information on transportation mitigation measures can be found at: http://www.valleyair.org/transportation/Mitigation-Measures.pdf.

1c) Recommended Model for Quantifying Air Emissions

Project-related criteria pollutant emissions from construction and operational sources should be identified and quantified. Emissions analysis should be performed using the California Emission Estimator Model (CalEEMod), which uses the most recent CARB-approved version of relevant emissions models and emission factors. CalEEMod is available to the public and can be downloaded from the CalEEMod website at: www.caleemod.com.

2) Health Risk Screening/Assessment

The City should evaluate the risk associated with the Project for sensitive receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) in the area and mitigate any potentially significant risk to help limit exposure of sensitive receptors to emissions.

To determine potential health impacts on surrounding receptors (residences, businesses, hospitals, day-care facilities, health care facilities, etc.) a Prioritization and/or a Health Risk Assessment (HRA) should be performed for the Project. These health risk determinations should quantify and characterize potential Toxic Air

Contaminants (TACs) identified by the Office of Environmental Health Hazard Assessment/California Air Resources Board (OEHHA/CARB) that pose a present or potential hazard to human health.

Health risk analyses should include all potential air emissions from the project, which include emissions from construction of the project, including multi-year construction, as well as ongoing operational activities of the project. Note, two common sources of TACs can be attributed to diesel exhaust emitted from heavy-duty off-road earth moving equipment during construction, and from ongoing operation of heavy-duty on-road trucks.

Prioritization (Screening Health Risk Assessment):
A "Prioritization" is the recommended method for a conservative screening-level health risk assessment. The Prioritization should be performed using the California Air Pollution Control Officers Association's (CAPCOA) methodology.

The District recommends that a more refined analysis, in the form of an HRA, be performed for any project resulting in a Prioritization score of 10 or greater. This is because the prioritization results are a conservative health risk representation, while the detailed HRA provides a more accurate health risk evaluation.

To assist land use agencies and project proponents with Prioritization analyses, the District has created a prioritization calculator based on the aforementioned CAPCOA guidelines, which can be found here:
http://www.valleyair.org/busind/pto/emission_factors/Criteria/Toxics/Utilities/PRIORITIZATION-CALCULATOR.xls

Health Risk Assessment:
Prior to performing an HRA, it is strongly recommended that land use agencies/ project proponents develop and submit for District review a health risk modeling protocol that outlines the sources and methodologies that will be used to perform the HRA. This step will ensure all components are addressed when performing the HRA.

A development project would be considered to have a potentially significant health risk if the HRA demonstrates that the project-related health impacts would exceed the District's significance threshold of 20 in a million for carcinogenic risk, or 1.0 for either the Acute or Chronic Hazard Indices.

A project with a significant health risk would trigger all feasible mitigation measures. The District strongly recommends that development projects that result in a significant health risk not be approved by the land use agency.

The District is available to review HRA protocols and analyses. For HRA submittals please provide the following information electronically to the District for review:

- HRA (AERMOD) modeling files
- HARP2 files
- Summary of emissions source locations, emissions rates, and emission factor calculations and methodologies.

For assistance, please contact the District's Technical Services Department by:

- E-Mailing inquiries to: hramodeler@valleyair.org
- Calling (559) 230-5900

Recommended Measure: Development projects resulting in TAC emissions should be located an adequate distance from residential areas and other sensitive receptors in accordance to CARB's Air Quality and Land Use Handbook: A Community Health Perspective located at https://ww3.arb.ca.gov/ch/handbook.pdf.

3) Ambient Air Quality Analysis

An Ambient Air Quality Analysis (AAQA) uses air dispersion modeling to determine if emissions increases from a project will cause or contribute to a violation of State or National Ambient Air Quality Standards. The District recommends an AAQA be performed for the Project if emissions exceed 100 pounds per day of any pollutant.

An acceptable analysis would include emissions from both project-specific permitted and non-permitted equipment and activities. The District recommends consultation with District staff to determine the appropriate model and input data to use in the analysis.

Specific information for assessing significance, including screening tools and modeling guidance, is available online at the District's website: www.valleyair.org/ceqa.

4) Voluntary Emission Reduction Agreement

Criteria pollutant emissions may result in emissions exceeding the District's significance thresholds, potentially resulting in a significant impact on air quality. When a project is expected to have a significant impact, the District recommends the environmental document also include a discussion on the feasibility of implementing a Voluntary Emission Reduction Agreement (VERA) for this Project.

A VERA is a mitigation measure by which the project proponent provides pound-for-pound mitigation of emissions increases through a process that develops, funds, and implements emission reduction projects, with the District serving a role of administrator of the emissions reduction projects and verifier of the successful mitigation effort. To implement a VERA, the project proponent and the District enter into a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the District's incentives programs. The funds are disbursed by the District in the form of grants for projects that achieve emission reductions. Thus, project-related impacts on air quality can be mitigated. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (such as agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors.

In implementing a VERA, the District verifies the actual emission reductions that have been achieved as a result of completed grant contracts, monitors the emission reduction projects, and ensures the enforceability of achieved reductions. After the project is mitigated, the District certifies to the Lead Agency that the mitigation is completed, providing the Lead Agency with an enforceable mitigation measure demonstrating that project-related emissions have been mitigated. To assist the Lead Agency and project proponent in ensuring that the environmental document is compliant with CEQA, the District recommends the environmental document includes an assessment of the feasibility of implementing a VERA.

5) Truck Routing

Truck routing involves the assessment of which roads Heavy Heavy-Duty (HHD) trucks take to and from their destination, and the emissions impact that the HHD trucks may have on residential communities and sensitive receptors. This Project has the potential to increase the HHD truck trips to and from the Project site.

The District recommends the City evaluate HHD truck routing patterns for the Project, with the aim of limiting exposure of residential communities and sensitive receptors to emissions. This evaluation would consider the current truck routes, the quantity and type of each truck (e.g., Medium Heavy-Duty, HHD, etc.), the destination and origin of each trip, traffic volume correlation with the time of day or the day of the week, overall Vehicle Miles Traveled (VMT), and associated exhaust emissions. The truck routing evaluation would also identify alternative truck routes and their impacts on VMT and air quality.

6) Cleanest Available Heavy-Duty Trucks

The San Joaquin Valley will not be able to attain stringent health-based federal air quality standards without significant reductions in emissions from HHD trucks, the single largest source of NOx emissions in the San Joaquin Valley. The District's

CARB-approved 2018 PM2.5 Plan includes significant new reductions from HHD trucks, including emissions reductions by 2023 through the implementation of CARB's Statewide Truck and Bus Regulation, which requires truck fleets operating in California to meet the 2010 standard of 0.2 g-NOx/bhp-hr by 2023. Additionally, to meet federal air quality attainment standards, the District's Plan relies on a significant and immediate transition of HHD fleets to zero or near-zero emissions technologies, including the near-zero truck standard of 0.02 g/bhp-hr NOx established by CARB.

This Project has the potential to increase the HHD truck trips to and from the Project site. Since the Project may exceed the District significance thresholds, the District recommends that the following measures be considered by the City to reduce Project-related operational emissions:

- *Recommended Measure*: Fleets associated with operational activities utilize the cleanest available HHD trucks, including zero and near-zero (0.02 g/bhp-hr NOx) technologies.

- *Recommended Measure*: All on-site service equipment (cargo handling, yard hostlers, forklifts, pallet jacks, etc.) utilize zero-emissions technologies.

7) Reduce Idling of Heavy-Duty Trucks

The goal of this strategy is to limit the potential for localized PM2.5 and toxic air contaminant impacts associated with the idling of Heavy-Duty trucks. The diesel exhaust from idling has the potential to impose significant adverse health and environmental impacts.

This Project has the potential to increase the HHD truck trips to and from the Project site. Since the Project is expected to result in HHD truck trips, the District recommends the environmental document include measures to ensure compliance of the state anti-idling regulation (13 CCR § 2485 and 13 CCR § 2480) and discuss the importance of limiting the amount of idling, especially near sensitive receptors.

8) Under-fired Charbroilers

The Project may have the potential to occupy restaurants with under-fired charbroilers. Such charbroilers may pose the potential for immediate health risk, particularly when located in densely populated areas or near sensitive receptors.

Since the cooking of meat can release carcinogenic PM2.5 species, such as polycyclic aromatic hydrocarbons, controlling emissions from new under-fired charbroilers will have a substantial positive impact on public health. The air quality impacts on neighborhoods near restaurants with under-fired charbroilers can be significant on days when meteorological conditions are stable, when dispersion is

limited and emissions are trapped near the surface within the surrounding neighborhoods. This potential for neighborhood-level concentration of emissions during evening or multi-day stagnation events raises air quality concerns.

Furthermore, reducing commercial charbroiling emissions is essential to achieving attainment of multiple federal PM2.5 standards. Therefore, the District recommends that the environmental document include a measure requiring the assessment and potential installation, as technologically feasible, of particulate matter emission control systems for new large restaurants operating under-fired charbroilers.

The District is available to assist the City and project proponents with this assessment. Additionally, the District is currently offering substantial incentive funding that covers the full cost of purchasing, installing, and maintaining the system during a demonstration period covering two years of operation. Please contact the District at (559) 230-5800 or technology@valleyair.org for more information, or visit: http://valleyair.org/grants/rctp.htm

9) Vegetative Barriers and Urban Greening

The District suggests the City consider the feasibility of incorporating vegetative barriers and urban greening as a measure to further reduce air pollution exposure on sensitive receptors (e.g., residential units).

While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, vegetative barriers have been shown to be an additional measure to potentially reduce a population's exposure to air pollution through the interception of airborne particles and the update of gaseous pollutants. Examples of vegetative barriers include, but are not limited to the following: trees, bushes, shrubs, or a mix of these. Generally, a higher and thicker vegetative barrier with full coverage will result in greater reductions in downwind pollutant concentrations. In the same manner, urban greening is also a way to help improve air quality and public health in addition to enhancing the overall beautification of a community with drought tolerant, low-maintenance greenery.

10) Clean Lawn and Garden Equipment in the Community

Since the Project consists of commercial development, gas-powered commercial lawn and garden equipment have the potential to result in an increase of NOx and PM2.5 emissions. Utilizing electric lawn care equipment can provide residents with immediate economic, environmental, and health benefits. The District recommends the Project proponent consider the District's Clean Green Yard Machines (CGYM) program which provides incentive funding for replacement of existing gas powered lawn and garden equipment. More information on the District CGYM program and funding can be found at: http://www.valleyair.org/grants/cgym.htm and http://valleyair.org/grants/cgym-commercial.htm.

11) On-Site Solar Deployment

It is the policy of the State of California that renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers by December 31, 2045. While various emission control techniques and programs exist to reduce air quality emissions from mobile and stationary sources, the production of solar energy is contributing to improving air quality and public health. The District suggests that the City consider incorporating solar power systems as an emission reduction strategy for the Project.

12) Electric Vehicle Chargers

To support and accelerate the installation of electric vehicle charging equipment and development of required infrastructure, the District offers incentives to public agencies, businesses, and property owners of multi-unit dwellings to install electric charging infrastructure (Level 2 and 3 chargers). The purpose of the District's Charge Up! Incentive program is to promote clean air alternative-fuel technologies and the use of low or zero-emission vehicles. The District recommends that the City and project proponents install electric vehicle chargers at project sites, and at strategic locations.

Please visit www.valleyair.org/grants/chargeup.htm for more information.

13) District Rules and Regulations

The District issues permits for many types of air pollution sources, and regulates some activities that do not require permits. A project subject to District rules and regulations would reduce its impacts on air quality through compliance with the District's regulatory framework. In general, a regulation is a collection of individual rules, each of which deals with a specific topic. As an example, Regulation II (Permits) includes District Rule 2010 (Permits Required), Rule 2201 (New and Modified Stationary Source Review), Rule 2520 (Federally Mandated Operating Permits), and several other rules pertaining to District permitting requirements and processes.

The list of rules below is neither exhaustive nor exclusive. Current District rules can be found online at: www.valleyair.org/rules/1ruleslist.htm. To identify other District rules or regulations that apply to future projects, or to obtain information about District permit requirements, the project proponents are strongly encouraged to contact the District's Small Business Assistance (SBA) Office at (209) 557-6446.

13a) District Rules 2010 and 2201 - Air Quality Permitting for Stationary Sources

Stationary Source emissions include any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission. District Rule 2010 (Permits Required) requires operators of emission sources to obtain an Authority to Construct (ATC) and Permit to Operate (PTO) from the District. District Rule 2201 (New and Modified Stationary Source Review) requires that new and modified stationary sources of emissions mitigate their emissions using Best Available Control Technology (BACT).

This Project may be subject to District Rule 2010 (Permits Required) and Rule 2201 (New and Modified Stationary Source Review) and may require District permits. Prior to construction, the Project proponent should submit to the District an application for an ATC. For further information or assistance, the project proponent may contact the District's SBA Office at (209) 557-6446.

13b) District Rule 9510 - Indirect Source Review (ISR)

The Project is subject to District Rule 9510 because it will receives a project-level discretionary approval from a public agency and will equal or exceed 2,000 square feet of commercial development.

The purpose of District Rule 9510 is to reduce the growth in both NOx and PM emissions associated with development and transportation projects from mobile and area sources; specifically, the emissions associated with the construction and subsequent operation of development projects. The ISR Rule requires developers to mitigate their NOx and PM emissions by incorporating clean air design elements into their projects. Should the proposed development project clean air design elements be insufficient to meet the required emission reductions, developers must pay a fee that ultimately funds incentive projects to achieve off-site emissions reductions.

Per Section 5.0 of the ISR Rule, an Air Impact Assessment (AIA) application is required to be submitted no later than applying for project-level approval from a public agency. As of the date of this letter, the District has not received an AIA application for this Project. Please inform the project proponent to immediately submit an AIA application to the District to comply with District Rule 9510 so that proper mitigation and clean air design under ISR can be incorporated into the Project's design. One AIA application should be submitted for the entire Project.

Information about how to comply with District Rule 9510 can be found online at: http://www.valleyair.org/ISR/ISRHome.htm.

The AIA application form can be found online at: http://www.valleyair.org/ISR/ISRFormsAndApplications.htm.

District staff is available to provide assistance, and can be reached by phone at (559) 230-5900 or by email at ISR@valleyair.org.

13c) District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants)

In the event an existing building will be renovated, partially demolished or removed, the Project may be subject to District Rule 4002. This rule requires a thorough inspection for asbestos to be conducted before any regulated facility is demolished or renovated. Information on how to comply with District Rule 4002 can be found online at: http://www.valleyair.org/busind/comply/asbestosbultn.htm.

13d) District Rule 4601 (Architectural Coatings)

The Project may be subject to District Rule 4601 since it may utilize architectural coatings. Architectural coatings are paints, varnishes, sealers, or stains that are applied to structures, portable buildings, pavements or curbs. The purpose of this rule is to limit VOC emissions from architectural coatings. In addition, this rule specifies architectural coatings storage, cleanup and labeling requirements. Additional information on how to comply with District Rule 4601 requirements can be found online at: http://www.valleyair.org/rules/currntrules/r4601.pdf

13e) District Regulation VIII (Fugitive PM10 Prohibitions)

The project proponent may be required to submit a Construction Notification Form or submit and receive approval of a Dust Control Plan prior to commencing any earthmoving activities as described in Regulation VIII, specifically Rule 8021 – *Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities.*

Should the project result in at least 1-acre in size, the project proponent shall provide written notification to the District at least 48 hours prior to the project proponents intent to commence any earthmoving activities pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). Also, should the project result in the disturbance of 5-acres or more, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials, the project proponent shall submit to the District a Dust Control Plan pursuant to District Rule 8021 (Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities). For

additional information regarding the written notification or Dust Control Plan requirements, please contact District Compliance staff at (559) 230-5950.

The application for both the Construction Notification and Dust Control Plan can be found online at:
https://www.valleyair.org/busind/comply/PM10/forms/DCP-Form.docx

Information about District Regulation VIII can be found online at:
http://www.valleyair.org/busind/comply/pm10/compliance_pm10.htm

13f) Other District Rules and Regulations

The Project may also be subject to the following District rules: Rule 4102 (Nuisance) and Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations).

14) District Comment Letter

The District recommends that a copy of the District's comments be provided to the Project proponent.

If you have any questions or require further information, please contact Eric McLaughlin by e-mail at eric.mclaughlin@valleyair.org or by phone at (559) 230-5808.

Sincerely,

Brian Clements
Director of Permit Services

For: Mark Montelongo
Program Manager

APPENDIX A

Air Quality, Greenhouse Gas, and Energy Appendices

CONTENTS

APPENDIX A.1

CalEEMod Outputs

Lathrop Singh v2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Lathrop Singh v2
Construction Start Date	9/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	31.2
Location	37.85534646521421, -121.28572220034485
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2103
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Gasoline/Service Station	16.0	Pump	0.05	2,259	0.00	0.00	—	Gasoline pump stations
Gasoline/Service Station	8.00	Pump	0.03	1,129	0.00	0.00	—	Diesel pump stations
Strip Mall	16.7	1000sqft	0.38	16,688	0.00	0.00	—	TA Building
Automobile Care Center	13.8	1000sqft	0.32	13,846	0.00	0.00	—	4-Bay Shop
Other Asphalt Surfaces	18.9	Acre	18.9	0.00	0.00	0.00	—	Asphalt

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.43	3.73	36.0	33.9	0.05	1.60	19.8	21.4	1.47	10.1	11.6	—	5,461	5,461	0.22	0.05	0.81	5,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.42	19.4	36.0	33.7	0.06	1.60	19.8	21.4	1.47	10.1	11.6	—	6,769	6,769	0.28	0.06	0.02	6,794
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.00	1.29	7.63	9.69	0.02	0.31	1.32	1.52	0.29	0.58	0.76	—	1,892	1,892	0.07	0.03	0.25	1,904
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.18	0.24	1.39	1.77	< 0.005	0.06	0.24	0.28	0.05	0.11	0.14	—	313	313	0.01	0.01	0.04	315

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.43	3.73	36.0	33.9	0.05	1.60	19.8	21.4	1.47	10.1	11.6	—	5,461	5,461	0.22	0.05	0.66	5,482
2025	1.40	1.18	10.7	13.7	0.02	0.43	0.13	0.57	0.40	0.03	0.43	—	2,656	2,656	0.10	0.05	0.81	2,673
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	4.42	3.72	36.0	33.7	0.06	1.60	19.8	21.4	1.47	10.1	11.6	—	6,769	6,769	0.28	0.06	0.02	6,794
2025	1.40	1.17	10.7	13.6	0.02	0.43	0.13	0.57	0.40	0.03	0.43	—	2,646	2,646	0.10	0.05	0.02	2,662
2026	1.33	19.4	10.1	13.4	0.02	0.38	0.13	0.51	0.35	0.03	0.38	—	2,641	2,641	0.10	0.05	0.02	2,657
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.58	0.48	4.60	4.42	0.01	0.20	1.32	1.52	0.18	0.58	0.76	—	888	888	0.04	0.01	0.06	892
2025	1.00	0.84	7.63	9.69	0.02	0.31	0.09	0.40	0.29	0.02	0.31	—	1,892	1,892	0.07	0.03	0.25	1,904
2026	0.12	1.29	0.85	1.20	< 0.005	0.03	0.01	0.05	0.03	< 0.005	0.03	—	207	207	0.01	< 0.005	0.03	208
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.11	0.09	0.84	0.81	< 0.005	0.04	0.24	0.28	0.03	0.11	0.14	—	147	147	0.01	< 0.005	0.01	148
2025	0.18	0.15	1.39	1.77	< 0.005	0.06	0.02	0.07	0.05	< 0.005	0.06	—	313	313	0.01	0.01	0.04	315
2026	0.02	0.24	0.16	0.22	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	34.2	34.2	< 0.005	< 0.005	< 0.005	34.4

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.1	12.9	30.4	79.3	0.27	0.37	14.7	15.0	0.35	3.78	4.13	50.4	28,426	28,477	6.19	2.89	2,955	32,448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.8	11.6	33.1	73.4	0.26	0.37	14.7	15.0	0.35	3.78	4.13	50.4	27,431	27,482	6.32	2.96	2,873	31,396
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.0	11.8	32.0	72.2	0.26	0.37	14.4	14.8	0.35	3.71	4.06	50.4	27,654	27,705	6.25	2.93	2,907	31,641
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.19	2.15	5.83	13.2	0.05	0.07	2.63	2.69	0.06	0.68	0.74	8.34	4,578	4,587	1.04	0.49	481	5,238

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.8	11.7	30.2	77.6	0.27	0.35	14.7	15.0	0.33	3.78	4.11	—	27,959	27,959	1.08	2.88	84.1	28,927
Area	0.26	1.14	0.01	1.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.07	6.07	< 0.005	< 0.005	—	6.09
Energy	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	456	456	0.05	< 0.005	—	458
Water	—	—	—	—	—	—	—	—	—	—	—	5.48	5.21	10.7	0.56	0.01	—	28.7
Waste	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Total	13.1	12.9	30.4	79.3	0.27	0.37	14.7	15.0	0.35	3.78	4.13	50.4	28,426	28,477	6.19	2.89	2,955	32,448

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.8	10.7	32.9	73.3	0.26	0.35	14.7	15.0	0.33	3.78	4.11	—	26,970	26,970	1.21	2.95	2.18	27,881
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	456	456	0.05	< 0.005	—	458
Water	—	—	—	—	—	—	—	—	—	—	—	5.48	5.21	10.7	0.56	0.01	—	28.7
Waste	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Total	11.8	11.6	33.1	73.4	0.26	0.37	14.7	15.0	0.35	3.78	4.13	50.4	27,431	27,482	6.32	2.96	2,873	31,396
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	11.8	10.7	31.7	71.2	0.26	0.35	14.4	14.7	0.33	3.71	4.04	—	27,190	27,190	1.15	2.91	36.3	28,123
Area	0.13	1.02	0.01	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.99	2.99	< 0.005	< 0.005	—	3.00
Energy	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	456	456	0.05	< 0.005	—	458
Water	—	—	—	—	—	—	—	—	—	—	—	5.48	5.21	10.7	0.56	0.01	—	28.7
Waste	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Total	12.0	11.8	32.0	72.2	0.26	0.37	14.4	14.8	0.35	3.71	4.06	50.4	27,654	27,705	6.25	2.93	2,907	31,641
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.16	1.96	5.79	13.0	0.05	0.06	2.63	2.69	0.06	0.68	0.74	—	4,502	4,502	0.19	0.48	6.01	4,656
Area	0.02	0.19	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50
Energy	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.5	75.5	0.01	< 0.005	—	75.9
Water	—	—	—	—	—	—	—	—	—	—	—	0.91	0.86	1.77	0.09	< 0.005	—	4.76
Waste	—	—	—	—	—	—	—	—	—	—	—	7.44	0.00	7.44	0.74	0.00	—	26.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	475	475
Total	2.19	2.15	5.83	13.2	0.05	0.07	2.63	2.69	0.06	0.68	0.74	8.34	4,578	4,587	1.04	0.49	481	5,238

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.99	0.90	< 0.005	0.04	—	0.04	0.04	—	0.04	—	145	145	0.01	< 0.005	—	146

Dust From Material Movement	—	—	—	—	—	—	0.54	0.54	—	0.28	0.28	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	1.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	165	165	0.01	0.01	0.66	168
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.79	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	149	149	0.01	0.01	0.02	152
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.20	4.20	< 0.005	< 0.005	0.01	4.26
Vendor	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	0.00
Hauling	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.69	0.69	< 0.005	< 0.005	< 0.005	0.71
Vendor	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	0.00
Hauling	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	0.00

3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.19	3.52	34.3	30.2	0.06	1.45	—	1.45	1.33	—	1.33	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.82	2.48	0.01	0.12	—	0.12	0.11	—	0.11	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	—	0.76	0.76	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	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	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.51	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	0.90	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	171	171	0.01	0.01	0.02	173
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.4	14.4	< 0.005	< 0.005	0.03	14.6
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.38	2.38	< 0.005	< 0.005	< 0.005	2.42
Vendor	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	0.00
Hauling	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	0.00

3.5. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.77	0.90	< 0.005	0.03	—	0.03	0.03	—	0.03	—	164	164	0.01	< 0.005	—	165
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.49	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	92.7	92.7	0.01	< 0.005	0.01	94.0
Vendor	0.01	0.01	0.22	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	160	160	< 0.005	0.02	0.01	168
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.61
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.01	11.5
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.90
Hauling	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	0.00

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.96	0.80	7.46	9.31	0.02	0.31	—	0.31	0.28	—	0.28	—	1,713	1,713	0.07	0.01	—	1,719
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.36	1.70	< 0.005	0.06	—	0.06	0.05	—	0.05	—	284	284	0.01	< 0.005	—	285
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	100	100	< 0.005	< 0.005	0.37	102
Vendor	0.01	0.01	0.20	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	157	157	< 0.005	0.02	0.43	165
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.7	90.7	< 0.005	< 0.005	0.01	91.9
Vendor	0.01	< 0.005	0.21	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	158	158	< 0.005	0.02	0.01	165
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.33	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	66.4	66.4	< 0.005	< 0.005	0.12	67.4
Vendor	0.01	< 0.005	0.15	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112	112	< 0.005	0.02	0.13	118
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.6	18.6	< 0.005	< 0.005	0.02	19.5
Hauling	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	0.00

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.53	< 0.005	0.02	—	0.02	0.01	—	0.01	—	98.5	98.5	< 0.005	< 0.005	—	98.9
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.3	16.3	< 0.005	< 0.005	—	16.4
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.03	0.41	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	88.9	88.9	< 0.005	< 0.005	0.01	90.1
Vendor	0.01	< 0.005	0.20	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	155	155	< 0.005	0.02	0.01	162
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.74	3.74	< 0.005	< 0.005	0.01	3.80
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.35	6.35	< 0.005	< 0.005	0.01	6.65
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.10
Hauling	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	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	0.04	0.39	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	0.01	0.01	124
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.90	6.90	< 0.005	< 0.005	0.01	7.00
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.16
Vendor	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	0.00
Hauling	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	0.00

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	—	1.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	—	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	< 0.005	18.0
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.00	1.00	< 0.005	< 0.005	< 0.005	1.01
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Vendor	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	0.00
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	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	0.00
Strip Mall	12.8	11.7	30.2	77.6	0.27	0.35	14.7	15.0	0.33	3.78	4.11	—	27,959	27,959	1.08	2.88	84.1	28,927
Automob ile Care Center	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	0.00
Other Asphalt Surfaces	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	0.00
Total	12.8	11.7	30.2	77.6	0.27	0.35	14.7	15.0	0.33	3.78	4.11	—	27,959	27,959	1.08	2.88	84.1	28,927
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	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	0.00
Strip Mall	11.8	10.7	32.9	73.3	0.26	0.35	14.7	15.0	0.33	3.78	4.11	—	26,970	26,970	1.21	2.95	2.18	27,881
Automob ile Care Center	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	0.00
Other Asphalt Surfaces	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	0.00
Total	11.8	10.7	32.9	73.3	0.26	0.35	14.7	15.0	0.33	3.78	4.11	—	26,970	26,970	1.21	2.95	2.18	27,881
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	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	0.00
Strip Mall	2.16	1.96	5.79	13.0	0.05	0.06	2.63	2.69	0.06	0.68	0.74	—	4,502	4,502	0.19	0.48	6.01	4,656

Automob Care Center	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	0.00
Other Asphalt Surfaces	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	0.00
Total	2.16	1.96	5.79	13.0	0.05	0.06	2.63	2.69	0.06	0.68	0.74	—	4,502	4,502	0.19	0.48	6.01	4,656

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	—	19.6	19.6	< 0.005	< 0.005	—	19.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	81.3	81.3	0.01	< 0.005	—	82.1
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	79.9	79.9	0.01	< 0.005	—	80.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	181	181	0.03	< 0.005	—	183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	—	19.6	19.6	< 0.005	< 0.005	—	19.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	81.3	81.3	0.01	< 0.005	—	82.1
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	79.9	79.9	0.01	< 0.005	—	80.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	181	181	0.03	< 0.005	—	183
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	—	3.24	3.24	< 0.005	< 0.005	—	3.27
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	13.5	13.5	< 0.005	< 0.005	—	13.6
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	13.2	13.2	< 0.005	< 0.005	—	13.4
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	29.9	29.9	< 0.005	< 0.005	—	30.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Gasoline /Service	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.0	45.0	< 0.005	< 0.005	—	45.1
Strip Mall	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.1	46.1	< 0.005	< 0.005	—	46.3
Automobile Care Center	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	184	184	0.02	< 0.005	—	184
Other Asphalt Surfaces	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
Total	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.0	45.0	< 0.005	< 0.005	—	45.1
Strip Mall	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.1	46.1	< 0.005	< 0.005	—	46.3
Automobile Care Center	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	184	184	0.02	< 0.005	—	184
Other Asphalt Surfaces	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
Total	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	275	275	0.02	< 0.005	—	276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.45	7.45	< 0.005	< 0.005	—	7.47
Strip Mall	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.64	7.64	< 0.005	< 0.005	—	7.66
Automobile Care Center	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	30.5	30.5	< 0.005	< 0.005	—	30.5

Other Asphalt Surfaces	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
Total	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.5	45.5	< 0.005	< 0.005	—	45.7

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.26	0.24	0.01	1.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.07	6.07	< 0.005	< 0.005	—	6.09
Total	0.26	1.14	0.01	1.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.07	6.07	< 0.005	< 0.005	—	6.09
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50
Total	0.02	0.19	< 0.005	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.50	0.50	< 0.005	< 0.005	—	0.50

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	0.61	0.58	1.19	0.06	< 0.005	—	3.21
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.37	2.25	4.62	0.24	0.01	—	12.4
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.50	2.37	4.87	0.26	0.01	—	13.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.48	5.21	10.7	0.56	0.01	—	28.7

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	0.61	0.58	1.19	0.06	< 0.005	—	3.21
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.37	2.25	4.62	0.24	0.01	—	12.4
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	2.50	2.37	4.87	0.26	0.01	—	13.1
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.48	5.21	10.7	0.56	0.01	—	28.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10	0.20	0.01	< 0.005	—	0.53
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.39	0.37	0.77	0.04	< 0.005	—	2.06
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	0.41	0.39	0.81	0.04	< 0.005	—	2.17
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.91	0.86	1.77	0.09	< 0.005	—	4.76

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	6.97	0.00	6.97	0.70	0.00	—	24.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.44	0.00	9.44	0.94	0.00	—	33.0
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	28.5	0.00	28.5	2.85	0.00	—	99.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	6.97	0.00	6.97	0.70	0.00	—	24.4
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	9.44	0.00	9.44	0.94	0.00	—	33.0
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	28.5	0.00	28.5	2.85	0.00	—	99.7
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	44.9	0.00	44.9	4.49	0.00	—	157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Gasoline /Service Station	—	—	—	—	—	—	—	—	—	—	—	1.15	0.00	1.15	0.12	0.00	—	4.04
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.56	0.00	1.56	0.16	0.00	—	5.47
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	4.72	0.00	4.72	0.47	0.00	—	16.5
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	7.44	0.00	7.44	0.74	0.00	—	26.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10

Automobile	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,871	2,871
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	475	475
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	475	475

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	9/30/2024	10/14/2024	5.00	10.0	—
Grading	Grading	10/15/2024	11/26/2024	5.00	30.0	—
Building Construction	Building Construction	11/27/2024	1/21/2026	5.00	300	—
Paving	Paving	1/22/2026	2/19/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	2/20/2026	3/20/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37

Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	10.9	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	5.56	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	2.17	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

Architectural Coating	0.00	0.00	50,883	16,961	49,270

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	0.50	0.00	—
Grading	0.00	0.00	1.50	0.00	—
Paving	0.00	0.00	0.00	0.00	18.9

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Gasoline/Service Station	0.00	0%
Gasoline/Service Station	0.00	0%
Strip Mall	0.00	0%
Automobile Care Center	0.00	0%
Other Asphalt Surfaces	18.9	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	3,490	3,490	3,490	1,273,848	19,590	19,590	19,590	7,150,339
Automobile Care Center	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	50,883	16,961	49,270

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Gasoline/Service Station	23,335	204	0.0330	0.0040	93,655
Gasoline/Service Station	11,663	204	0.0330	0.0040	46,807
Strip Mall	145,387	204	0.0330	0.0040	143,944
Automobile Care Center	143,029	204	0.0330	0.0040	574,036
Other Asphalt Surfaces	0.00	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Gasoline/Service Station	212,510	0.00
Gasoline/Service Station	106,255	0.00
Strip Mall	1,236,122	0.00
Automobile Care Center	1,302,647	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Gasoline/Service Station	8.62	—
Gasoline/Service Station	4.31	—

Strip Mall	17.5	—
Automobile Care Center	52.9	—
Other Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	18.9	annual days of extreme heat
Extreme Precipitation	2.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	13.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	57.1
AQ-PM	53.2
AQ-DPM	53.5

Drinking Water	98.2
Lead Risk Housing	13.6
Pesticides	84.4
Toxic Releases	47.3
Traffic	56.4
Effect Indicators	—
CleanUp Sites	90.1
Groundwater	99.7
Haz Waste Facilities/Generators	92.3
Impaired Water Bodies	87.0
Solid Waste	84.8
Sensitive Population	—
Asthma	69.4
Cardio-vascular	54.9
Low Birth Weights	67.9
Socioeconomic Factor Indicators	—
Education	55.5
Housing	10.5
Linguistic	58.2
Poverty	45.4
Unemployment	60.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	47.86346721

Employed	21.69896061
Median HI	53.50955986
Education	—
Bachelor's or higher	47.7223149
High school enrollment	13.5249583
Preschool enrollment	50.42987296
Transportation	—
Auto Access	85.40998332
Active commuting	18.3498011
Social	—
2-parent households	40.99833184
Voting	72.46246632
Neighborhood	—
Alcohol availability	84.01129219
Park access	41.28063647
Retail density	18.9272424
Supermarket access	35.54471962
Tree canopy	34.71063775
Housing	—
Homeownership	64.8659053
Housing habitability	69.85756448
Low-inc homeowner severe housing cost burden	40.10008982
Low-inc renter severe housing cost burden	74.20762223
Uncrowded housing	60.05389452
Health Outcomes	—
Insured adults	32.31104838
Arthritis	15.6

Asthma ER Admissions	25.2
High Blood Pressure	6.0
Cancer (excluding skin)	24.3
Asthma	46.1
Coronary Heart Disease	6.8
Chronic Obstructive Pulmonary Disease	25.1
Diagnosed Diabetes	31.9
Life Expectancy at Birth	48.2
Cognitively Disabled	72.6
Physically Disabled	69.8
Heart Attack ER Admissions	20.0
Mental Health Not Good	48.5
Chronic Kidney Disease	27.1
Obesity	41.7
Pedestrian Injuries	81.9
Physical Health Not Good	43.5
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	41.7
Current Smoker	38.5
No Leisure Time for Physical Activity	42.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	82.5
English Speaking	26.9

Foreign-born	72.3
Outdoor Workers	45.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.2
Traffic Density	71.1
Traffic Access	0.0
Other Indices	—
Hardship	56.7
Other Decision Support	—
2016 Voting	47.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	86.0
Healthy Places Index Score for Project Location (b)	42.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	No demolition.
Construction: Dust From Material Movement	Soil import and export to be balanced on-site, as provided by the Project applicant.
Operations: Vehicle Data	Trips, VMT, and Fleet Mix adjusted to reflect the data as provided in the traffic report prepared by Fehr & Peers. Additionally, primary trip, diverted trip, and pass-by trip percentages also revised to reflect that as provided in the traffic report by Fehr & Peers.
Operations: Fleet Mix	HHD% as a proportion of fleet mix was adjusted to reflect the number of heavy-duty truck trips as a proportion of overall truck trips (as provided by Fehr & Peers in their traffic analysis) (2023).

APPENDIX A.2

Energy Outputs

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: County
Region: San Joaquin
Calendar Year: 2023, 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Total VMT	Trips	Fuel Consumption	MPG	
San Joaquin	2023	All Other Buses	Aggregate	Aggregate	Diesel	63.39460475	3393.93922	564.2119822	0.391421545	**8.670803**	
San Joaquin	2023	LDA	Aggregate	Aggregate	Gasoline	246367.0682	9973102.47	1138235.391	349.3216614	**28.54991**	
San Joaquin	2023	LDA	Aggregate	Aggregate	Diesel	705.734891	23139.8254	3023.214022	0.543997543	**42.53664**	
San Joaquin	2023	LDT1	Aggregate	Aggregate	Gasoline	22016.87719	727225.714	95173.38769	30.52486616	**23.82404**	
San Joaquin	2023	LDT1	Aggregate	Aggregate	Diesel	6.309776167	72.3140659	18.53577151	0.002954101	**24.47922**	
San Joaquin	2023	LDT2	Aggregate	Aggregate	Gasoline	99986.64004	4006976.31	463638.6569	174.3583341	**22.98127**	
San Joaquin	2023	LDT2	Aggregate	Aggregate	Diesel	269.0353638	11767.7731	1277.639106	0.369317903	**31.86353**	
San Joaquin	2023	LHD1	Aggregate	Aggregate	Gasoline	9831.305478	343356.563	146471.803	37.0137846	**9.276451**	
San Joaquin	2023	LHD1	Aggregate	Aggregate	Diesel	8858.793592	311287.78	111432.479	19.67413691	**15.82218**	
San Joaquin	2023	LHD2	Aggregate	Aggregate	Gasoline	1172.202392	40932.8123	17464.06906	4.90823024	**8.339628**	
San Joaquin	2023	LHD2	Aggregate	Aggregate	Diesel	3130.564849	115648.086	39378.56755	8.863291415	**13.04798**	
San Joaquin	2023	MCY	Aggregate	Aggregate	Gasoline	12111.77426	65765.9483	24223.54852	1.643730409	**40.01018**	
San Joaquin	2023	MDV	Aggregate	Aggregate	Gasoline	94539.47242	3309649.73	427287.8869	178.486066	**18.5429**	
San Joaquin	2023	MDV	Aggregate	Aggregate	Diesel	1386.649679	54072.4946	6485.715736	2.267270858	**23.84916**	
San Joaquin	2023	MH	Aggregate	Aggregate	Gasoline	1507.494843	13134.1796	150.8097841	2.977418428	**4.411264**	
San Joaquin	2023	MH	Aggregate	Aggregate	Diesel	642.7961913	5646.6428	64.27961913	0.600452961	**9.403972**	
San Joaquin	2023	Motor Coach	Aggregate	Aggregate	Diesel	17.50069597	2493.47591	402.1659934	0.455354651	**5.475899**	
San Joaquin	2023	OBUS	Aggregate	Aggregate	Gasoline	184.2186442	8143.5346	3685.846633	1.733278965	**4.69834**	
San Joaquin	2023	PTO	Aggregate	Aggregate	Diesel	0	19769.5175	0	4.013121008	**4.92622**	
San Joaquin	2023	SBUS	Aggregate	Aggregate	Gasoline	127.6658449	7011.40481	510.6633795	0.69096273	**10.1473**	
San Joaquin	2023	SBUS	Aggregate	Aggregate	Diesel	488.0661519	10999.7571	7067.197879	1.346323697	**8.170217**	
San Joaquin	2023	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	10.21525791	684.779876	234.7466267	0.077405114	**8.846701**	
San Joaquin	2023	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	13.70885779	939.491781	315.0295519	0.106056052	**8.858446**	
San Joaquin	2023	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	43.24157557	2453.39435	993.6914066	0.273109788	**8.98318**	
San Joaquin	2023	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	74.64743229	15398.8197	1715.397994	1.609252898	**9.568925**	**MHD**
San Joaquin	2023	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	243.75384	8276.65194	3478.367297	1.005561316	**8.230877**	**8.579141**
San Joaquin	2023	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	156.2432876	5383.85911	2229.591714	0.657027122	**8.194272**	
San Joaquin	2023	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	682.6025228	23363.9411	9740.738001	2.839033489	**8.229541**	
San Joaquin	2023	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	122.4768589	6703.21055	1747.744776	0.802391793	**8.354037**	
San Joaquin	2023	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	449.8451938	18399.4289	5200.21044	2.166542487	**8.492531**	
San Joaquin	2023	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	1174.570894	51943.6226	13578.03953	6.096265009	**8.520565**	
San Joaquin	2023	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	912.5417949	38573.6428	10548.98315	4.50612298	**8.560273**	
San Joaquin	2023	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	553.092214	25667.2012	6393.745994	2.950154535	**8.70029**	
San Joaquin	2023	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	10.69132111	510.925844	123.591672	0.060247854	**8.480399**	
San Joaquin	2023	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	696.5366058	42802.4924	8051.963163	4.748833943	**9.013264**	
San Joaquin	2023	T6 OOS Class 4	Aggregate	Aggregate	Diesel	5.905142679	392.334655	135.7001788	0.044317954	**8.852725**	
San Joaquin	2023	T6 OOS Class 5	Aggregate	Aggregate	Diesel	7.890998517	538.212595	181.3351459	0.060737656	**8.861267**	
San Joaquin	2023	T6 OOS Class 6	Aggregate	Aggregate	Diesel	24.97157764	1406.36491	573.8468541	0.156409596	**8.991551**	
San Joaquin	2023	T6 OOS Class 7	Aggregate	Aggregate	Diesel	40.57354344	10226.0217	932.3800283	1.062980063	**9.620144**	
San Joaquin	2023	T6 Public Class 4	Aggregate	Aggregate	Diesel	32.09216486	1056.60486	164.6328057	0.140824099	**7.503012**	
San Joaquin	2023	T6 Public Class 5	Aggregate	Aggregate	Diesel	76.27568061	2776.64108	391.2942415	0.361173048	**7.687841**	
San Joaquin	2023	T6 Public Class 6	Aggregate	Aggregate	Diesel	126.4582156	4446.297	648.7306462	0.576020372	**7.718993**	
San Joaquin	2023	T6 Public Class 7	Aggregate	Aggregate	Diesel	152.7305258	6768.06936	783.5075973	0.883776286	**7.658125**	
San Joaquin	2023	T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.47606031	1364.93307	428.493572	0.154770907	**8.819055**	
San Joaquin	2023	T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.356456131	257.430851	81.36263848	0.029104667	**8.845002**	
San Joaquin	2023	T6 Utility Class 7	Aggregate	Aggregate	Diesel	7.230830053	358.500092	92.55462468	0.040337535	**8.887506**	
San Joaquin	2023	T6TS	Aggregate	Aggregate	Gasoline	560.525111	27400.6685	11214.98642	5.873758607	**4.664929**	
San Joaquin	2023	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1500.771839	308143.872	34487.73687	51.00604804	**6.04132**	**HHD**
San Joaquin	2023	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1343.474448	364734.036	30873.04281	59.83110996	**6.09606**	**5.596459**
San Joaquin	2023	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	562.3598205	132501.396	12923.02868	21.97566159	**6.029461**	
San Joaquin	2023	T7 Other Port Class 8	Aggregate	Aggregate	Diesel	28.6781176	5381.65764	469.174004	0.90785985	**5.927851**	
San Joaquin	2023	T7 POAK Class 8	Aggregate	Aggregate	Diesel	131.1211785	13188.0173	2145.142481	2.26470624	**5.823279**	
San Joaquin	2023	T7 POLA Class 8	Aggregate	Aggregate	Diesel	139.588006	18353.09	2283.659779	3.154875131	**5.817374**	
San Joaquin	2023	T7 Public Class 8	Aggregate	Aggregate	Diesel	387.066761	16533.9411	1985.652484	3.205449572	**5.158072**	
San Joaquin	2023	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	118.1878034	8595.90453	1113.329108	1.467125303	**5.859012**	
San Joaquin	2023	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	486.5561857	30707.0394	4583.359269	5.327318734	**5.76407**	
San Joaquin	2023	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1040.735731	57042.4876	9803.730584	9.736964144	**5.858344**	
San Joaquin	2023	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	175.044521	11346.9523	805.2047965	4.507153801	**2.517543**	
San Joaquin	2023	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2638.276559	211937.817	38334.1584	34.91925222	**6.069369**	
San Joaquin	2023	T7 Utility Class 8	Aggregate	Aggregate	Diesel	23.22093261	1080.67322	297.2279374	0.186573576	**5.792209**	
San Joaquin	2023	T7IS	Aggregate	Aggregate	Gasoline	2.419215607	60.0081934	48.40366587	0.018776223	**3.195967**	
San Joaquin	2023	UBUS	Aggregate	Aggregate	Gasoline	49.369827	3719.55506	197.479308	0.791708132	**4.698139**	
San Joaquin	2023	UBUS	Aggregate	Aggregate	Diesel	78.33872382	5427.523	313.3548953	0.602229331	**9.012386**	
San Joaquin	2025	All Other Buses	Aggregate	Aggregate	Diesel	67.92171408	3454.27959	604.5032553	0.395338932	**8.737514**	
San Joaquin	2025	LDA	Aggregate	Aggregate	Gasoline	247812.193	10065418.7	1143376.643	340.6379829	**29.54873**	
San Joaquin	2025	LDA	Aggregate	Aggregate	Diesel	620.8563183	19917.7375	2643.071074	0.459921869	**43.30678**	
San Joaquin	2025	LDT1	Aggregate	Aggregate	Gasoline	20969.62889	704503.526	90823.61908	28.55436416	**24.67236**	
San Joaquin	2025	LDT1	Aggregate	Aggregate	Diesel	5.057977491	54.7985719	14.33247387	0.002232746	**24.54313**	
San Joaquin	2025	LDT2	Aggregate	Aggregate	Gasoline	105887.2734	4297523.94	491668.9279	179.0193905	**24.00591**	
San Joaquin	2025	LDT2	Aggregate	Aggregate	Diesel	305.5941154	13558.4186	1463.961841	0.410704288	**33.01261**	
San Joaquin	2025	LHD1	Aggregate	Aggregate	Gasoline	9450.489324	335570.018	140798.2097	34.90157426	**9.614753**	
San Joaquin	2025	LHD1	Aggregate	Aggregate	Diesel	8447.684296	292201.982	106261.2413	18.38163512	**15.89641**	
San Joaquin	2025	LHD2	Aggregate	Aggregate	Gasoline	1129.168714	39496.2437	16822.93138	4.600897482	**8.584465**	
San Joaquin	2025	LHD2	Aggregate	Aggregate	Diesel	3098.911716	112092.227	38980.41096	8.493201579	**13.19788**	
San Joaquin	2025	MCY	Aggregate	Aggregate	Gasoline	12009.69999	64631.0827	24019.39998	1.598967718	**40.42051**	
San Joaquin	2025	MDV	Aggregate	Aggregate	Gasoline	92446.53152	3253692.9	417141.1232	169.0306745	**19.24913**	
San Joaquin	2025	MDV	Aggregate	Aggregate	Diesel	1393.091492	51951.9772	6420.977754	2.139013823	**24.28782**	
San Joaquin	2025	MH	Aggregate	Aggregate	Gasoline	1345.73466	11738.0981	134.6272954	2.660033836	**4.412763**	
San Joaquin	2025	MH	Aggregate	Aggregate	Diesel	631.6240768	5453.24118	63.16240768	0.580283559	**9.397546**	
San Joaquin	2025	Motor Coach	Aggregate	Aggregate	Diesel	18.80772922	2514.51501	432.2016174	0.452917647	**5.551815**	
San Joaquin	2025	OBUS	Aggregate	Aggregate	Gasoline	170.8324994	7309.03024	3418.016649	1.52248184	**4.800734**	

San Joaquin	2025	PTO	Aggregate	Aggregate	Diesel	0	20105.4227	0	3.98427046	**5.046199**		
San Joaquin	2025	SBUS	Aggregate	Aggregate	Gasoline	131.6189784	7271.29468	526.4759134	0.71341232	**10.19228**		
San Joaquin	2025	SBUS	Aggregate	Aggregate	Diesel	490.2787139	10849.6548	7099.235777	1.320741795	**8.214819**	**MHD**	
San Joaquin	2025	T6 CAIRP Class 4	Aggregate	Aggregate	Diesel	10.57610418	697.742444	243.038874	0.077548733	**8.997471**	**8.711536**	
San Joaquin	2025	T6 CAIRP Class 5	Aggregate	Aggregate	Diesel	14.00551629	958.755772	321.8467643	0.106617779	**8.992457**		
San Joaquin	2025	T6 CAIRP Class 6	Aggregate	Aggregate	Diesel	47.29566683	2488.35531	1086.854424	0.272426579	**9.13404**		
San Joaquin	2025	T6 CAIRP Class 7	Aggregate	Aggregate	Diesel	78.11014265	15772.0773	1794.971078	1.605687139	**9.822634**		
San Joaquin	2025	T6 Instate Delivery Class 4	Aggregate	Aggregate	Diesel	252.424868	8475.97193	3602.102866	1.019116289	**8.316982**		
San Joaquin	2025	T6 Instate Delivery Class 5	Aggregate	Aggregate	Diesel	162.4907366	5516.89416	2318.742812	0.666350411	**8.279269**		
San Joaquin	2025	T6 Instate Delivery Class 6	Aggregate	Aggregate	Diesel	708.1406495	23932.0747	10105.16707	2.87788442	**8.315857**		
San Joaquin	2025	T6 Instate Delivery Class 7	Aggregate	Aggregate	Diesel	127.2799027	6929.15534	1816.284212	0.825964977	**8.389164**		
San Joaquin	2025	T6 Instate Other Class 4	Aggregate	Aggregate	Diesel	457.3843802	18839.146	5287.363435	2.200026822	**8.563144**		
San Joaquin	2025	T6 Instate Other Class 5	Aggregate	Aggregate	Diesel	1233.945904	53254.2945	14264.41465	6.208167542	**8.578102**		
San Joaquin	2025	T6 Instate Other Class 6	Aggregate	Aggregate	Diesel	939.5521797	39531.7219	10861.2232	4.582174014	**8.627285**		
San Joaquin	2025	T6 Instate Other Class 7	Aggregate	Aggregate	Diesel	601.2468734	26326.7381	6950.413857	3.002944814	**8.766974**		
San Joaquin	2025	T6 Instate Tractor Class 6	Aggregate	Aggregate	Diesel	11.09411194	521.271565	128.2479341	0.060836197	**8.568444**		
San Joaquin	2025	T6 Instate Tractor Class 7	Aggregate	Aggregate	Diesel	742.8431118	44239.5012	8587.266373	4.878765067	**9.067766**		
San Joaquin	2025	T6 OOS Class 4	Aggregate	Aggregate	Diesel	6.191325924	405.515484	142.2766697	0.044545776	**9.103343**		
San Joaquin	2025	T6 OOS Class 5	Aggregate	Aggregate	Diesel	8.158025029	556.294323	187.4714152	0.061223253	**9.086324**		
San Joaquin	2025	T6 OOS Class 6	Aggregate	Aggregate	Diesel	27.75525515	1453.61298	637.8157633	0.156720574	**9.275189**		
San Joaquin	2025	T6 OOS Class 7	Aggregate	Aggregate	Diesel	42.05361037	10569.5739	966.3919663	1.066856767	**9.90721**		
San Joaquin	2025	T6 Public Class 4	Aggregate	Aggregate	Diesel	30.96340517	1050.77782	158.8422685	0.137051326	**7.667039**		
San Joaquin	2025	T6 Public Class 5	Aggregate	Aggregate	Diesel	77.40598482	2785.90976	397.0927021	0.357713881	**7.788095**		
San Joaquin	2025	T6 Public Class 6	Aggregate	Aggregate	Diesel	124.4648645	4446.56253	638.5047549	0.566454177	**7.849819**		
San Joaquin	2025	T6 Public Class 7	Aggregate	Aggregate	Diesel	148.2002736	6742.4666	760.2674038	0.856702113	**7.870258**		
San Joaquin	2025	T6 Utility Class 5	Aggregate	Aggregate	Diesel	33.80713566	1371.26265	432.7313364	0.154052822	**8.90125**		
San Joaquin	2025	T6 Utility Class 6	Aggregate	Aggregate	Diesel	6.404694197	258.753793	81.98008572	0.028984726	**8.927246**		
San Joaquin	2025	T6 Utility Class 7	Aggregate	Aggregate	Diesel	7.233394318	359.399463	92.58744727	0.039964166	**8.993043**		
San Joaquin	2025	T6TS	Aggregate	Aggregate	Gasoline	531.0756316	27321.54	10625.76124	5.695995374	**4.796623**	**HHD**	
San Joaquin	2025	T7 CAIRP Class 8	Aggregate	Aggregate	Diesel	1559.383676	317454.145	35834.63687	51.17555421	**6.203238**	**5.689878**	
San Joaquin	2025	T7 NNOOS Class 8	Aggregate	Aggregate	Diesel	1399.986354	379791.503	32171.68641	59.50406302	**6.382615**		
San Joaquin	2025	T7 NOOS Class 8	Aggregate	Aggregate	Diesel	592.9033383	137971.507	13624.91871	22.13949036	**6.231919**		
San Joaquin	2025	T7 Other Port Class 8	Aggregate	Aggregate	Diesel	31.09466321	5773.39367	508.7086901	0.965450648	**5.979999**		
San Joaquin	2025	T7 POAK Class 8	Aggregate	Aggregate	Diesel	137.4284865	13680.6366	2248.330039	2.333991731	**5.861476**		
San Joaquin	2025	T7 POLA Class 8	Aggregate	Aggregate	Diesel	157.478818	19849.822	2576.353462	3.419583803	**5.804748**		
San Joaquin	2025	T7 Public Class 8	Aggregate	Aggregate	Diesel	386.4284577	16615.451	1982.377988	3.157962941	**5.261446**		
San Joaquin	2025	T7 Single Concrete/Transit Mix Class 8	Aggregate	Aggregate	Diesel	121.0999578	8533.43151	1140.761603	1.428680336	**5.972947**		
San Joaquin	2025	T7 Single Dump Class 8	Aggregate	Aggregate	Diesel	518.3758674	30855.2217	4883.100671	5.328325632	**5.790791**		
San Joaquin	2025	T7 Single Other Class 8	Aggregate	Aggregate	Diesel	1163.187559	58572.1124	10957.22681	9.897066107	**5.918129**		
San Joaquin	2025	T7 SWCV Class 8	Aggregate	Aggregate	Diesel	167.5568448	10862.3368	770.7614863	4.227120943	**2.569677**		
San Joaquin	2025	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	2947.082282	219605.844	42821.10556	35.73125002	**6.146044**		
San Joaquin	2025	T7 Utility Class 8	Aggregate	Aggregate	Diesel	24.5522509	1096.54573	314.2688115	0.187591616	**5.845388**		
San Joaquin	2025	T7IS	Aggregate	Aggregate	Gasoline	1.372290651	54.2951776	27.45679134	0.014900233	**3.643915**		
San Joaquin	2025	UBUS	Aggregate	Aggregate	Gasoline	50.67993554	3818.16315	202.7197421	0.812722391	**4.697992**		
San Joaquin	2025	UBUS	Aggregate	Aggregate	Diesel	73.34639924	4977.17265	293.3855969	0.526331001	**9.456355**		

On-road Mobile (Operational) Energy Usage

Unmitigated:

Step 1:

Therefore:

Average Daily VMT:

19,590	Source: Fehr & Peers, 2023

Step 2: Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
39.91%	3.14%	16.10%	14.23%	2.68%	0.63%	0.98%	20.06%	0.04%	0.03%	1.79%	0.11%	0.30%
39.914267	3.141888	16.100567	14.228466	2.681159	0.633534	0.976855	20.057307	0.038959	0.031671	1.792696	0.10747	0.295162

And:

Gasoline MPG Factors for each Vehicle Class - Year 2025 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	MCY	MH
29.549	24.672	24.006	19.249	40.421	4.413

Diesel MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 Output)

LHD1	LHD2	MHD	HHD	OBUS	UBUS	SBUS
15.896	13.198	8.712	5.690	4.801	9.456	8.215

Therefore:

Weighted Average MPG Factors

Gasoline: **26.4** Diesel: **7.1**

Step 3: **Therefore:**

560	**daily gallons of gasoline**	**675**	**daily gallons of diesel**

or

204,560	**annual gallons of gasoline**	**246,503**	**annual gallons of diesel**

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.

Given Factor:	**2,836.6**	**metric tons**	**CO2**	**(provided in CalEEMod Output File)**	
Conversion Factor:	2204.6262	pounds	per metric ton		
Intermediate Result:	**6,253,687**	**pounds**	**CO2**		
Conversion Factor:	22.38	pounds	CO2 per 1 gallon of diesel fuel		Source: U.S. EIA, 2016
Final Result:	**279,432**	**gallons**	**diesel fuel**	http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11	

Mitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Site Preparation (2024)	24.1000
Grading (2024)	90.1

On-road Mobile (Construction) Energy Usage - Site Preparation

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

18

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

208

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

8.0 **Worker daily gallons of gasoline**

Step 4: 10 **# of Days (CalEEMod Output)**

Therefore:

Result: **80** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Grading

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

238

Step 2: Given:

Assumed Fleet Mix for Workers

LDA	LDT1	LDT2
0.5	0.25	0.25

(Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

9.2 **Worker daily gallons of gasoline**

Step 4: 30 **# of Days (CalEEMod Output)**

Therefore:

Result: **275** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Building Construction

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1:

Total Daily Worker Trips (CalEEMod Output)

11

Note: Assumes 5% of workers are on-site on a given day.

Total Daily Vendor Trips (CalEEMod Output)

6

Note: Assumes 5% of workers are on-site on a given day.

Worker Trip Length (miles) (CalEEMod Output)

11.9

Vendor Trip Length (miles) (CalEEMod Output)

9.1

Therefore:

Average Worker Daily VMT:

130

Average Vendor Daily VMT:

51

Step 2:

Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

Assumed Fleet Mix for Vendors

Fleet Mix for Workers (CalEEMod Output)

MHD	HHD
100%	0%

And:

MPG Factors for each Vehicle Class (from EMFAC2021) - Year 2023

Gasoline:

LDA	LDT1	LDT2
28.55	23.82	22.98

Diesel:

MHD	HHD
8.58	5.60

Therefore:

Weighted Average Worker (Gasoline) MPG Factor

26.0

Weighted Average Vendor (Diesel) MPG Factor

8.6

Step 3:

Therefore:

5 **Worker daily gallons of gasoline**

Therefore:

6 **Vendor daily gallons of diesel**

Step 4:

300 **# of Days (CalEEMod Output)**

Therefore:

1,498 **Total gallons of gasoline**

Therefore:

1,769 **Total gallons of diesel**

On-road Mobile (Construction) Energy Usage - Paving

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

179

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

6.9 **Worker daily gallons of gasoline**

Step 4: 20 **# of Days (CalEEMod Output)**

Therefore:

Result: **137** **Total gallons of gasoline**

On-road Mobile (Construction) Energy Usage - Architectural Coating

Note: Year 2021 MPG factors were derived for construction-releated energy consumption (for the sake of a conservative estimate).

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

2

Worker Trip Length (miles) (CalEEMod Output)

11.9

Therefore:

Average Worker Daily VMT:

26

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2021 Output) - Year 2023

LDA	LDT1	LDT2
28.55	23.82	22.98

Therefore:

Weighted Average Worker MPG Factor

26.0

Step 3: **Therefore:**

1.0 Worker daily gallons of gasoline

Step 4: 20 **# of Days (CalEEMod Output)**

Therefore:

Result: **20** **Total gallons of gasoline**

APPENDIX A.3

Health Risk Assessment

ANALYSIS OF PUBLIC HEALTH RISKS

FOR THE

SINGH PETROLEUM INVESTMENTS PROJECT

LATHROP CALIFORNIA

DECEMBER 20, 2023

PROJECT TITLE

Singh Petroleum Investments

PREPARED BY:

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CONTENTS

INTRODUCTION

This Health Risk Assessment (HRA) was prepared to assess potential public health risks that may be present at the proposed Singh Petroleum Investments Project in the city of Lathrop, San Joaquin County, California. This report analyzes the emissions of toxic air pollutants within the project area and their impacts on public health.

PROJECT DESCRIPTION

PROJECT LOCATION

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

EXISTING SURROUNDING USES

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 1,000 feet to the northeast of the Project site. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north.

PROJECT CHARACTERISTICS

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

SCOPE OF RISK ASSESSMENT

Preparation of risk assessments is a three-step process. The first step is to identify potential contaminants that may lead to public health risks. The second step is to assess the magnitude of contaminants that may reach the public (exposure assessment). The last step is to calculate the magnitude of the health risk as a result of exposure to harmful contaminants on the basis of the toxicology of the contaminants.

The Office of Environmental Health Hazard Assessment, and the San Joaquin Valley Air Pollution Control District (SJVAPCD) provide guidance on the procedures that should be used, including, toxicological data for individual contaminants. This risk assessment is based on the guidance provided within these guidance documents. It should be noted that while this risk assessment uses certain procedures and data from these Guidelines, this assessment is not intended to satisfy the reporting requirements under AB-2588 "Air Toxics" Hot Spots program.

The operational health risks that are evaluated in this study include:

- Residential Cancer Risk (70-year exposure; start at third trimester);

- Workplace Cancer Risk (40-year exposure; start at age 16); and
- Acute and Chronic Hazard Indices.

The 70-year risk applies to residential areas where exposure may potentially occur 24 hours/day, 365 days/year. The 40-year risk is applicable to workplace exposure and therefore accounts for a reduced exposure for the fact that individuals typically would be exposed 8-hrs per day, 5 days per week, and 50 weeks per year. Non-cancer risks can be described as acute (short-term, exposure) or chronic health impacts.

MODELING ASSUMPTIONS

The Intake Rate Percentile utilized to assess health risks was the "95th Percentile (High End)" Intake Rate Percentile, which selects the high end intake rate to assess risk at the 95th percentile exposure rate for all pathways, representing the most conservative intake rate percentile assumption.

The pathways to evaluate selected was the 'Mandatory Minimum Pathways' selection for residential-related health risks, which accounts for the four minimum exposure pathways required by OEHHA to conduct a health risk assessment for residents, when multi-pathway pollutants are involved. These include inhalation, soil, dermal, and mother's milk. Separately, the 'Worker Pathways' selection was selected for the worker-related health risks, since this selection was more applicable to analysis of worker-related health risks.

Additionally, the Deposition Rate utilized for the analyses was '0.05 m/s (uncontrolled sources)', which represents the most conservative selection available for Deposition Rate. Furthermore, it should be noted that worker adjustment factors were not utilized for the worker inhalation pathway.

SIGNIFICANCE CRITERIA

The following significance criteria shown in Table 1, based on guidance from the SJVAPCD, are used in this report to assess the significance of public health risks.

TABLE 1 THRESHOLDS OF SIGNIFICANCE FOR PUBLIC HEALTH RISKS

Risk Metric	*Significance Threshold*
Residential Cancer Risk	20 per million
Workplace Cancer Risk	20 per million
Chronic and Acute non-cancer hazard Indices	non-cancer health hazard exposure index of 1.0

SOURCE: SJVAPCD, 2015.

As shown in Table 1, a project that contributes a cancer risk in excess of 20 new cases in a population of one million persons at identified receptors, or a non-cancer hazard index of greater than or equal to 1.0 would be considered to have a significant project-level impact.

EMISSION SOURCES AND EXPOSURE

The source of toxic air pollutants (TACs) from the proposed Project is diesel particulate matter (DPM) from on-site truck idle and mobile emissions, and off-site mobile emissions. The Project would also generate truck trips that contain Truck Refrigeration Units (TRUs), which also generate DPM. Furthermore, gasoline refueling, storage, spillage and tank breathing would generate benzene emissions.

Based on numerous studies by the California Air Resources Board (ARB), DPM represents the largest single contributor to public health risks. Additionally, in its comprehensive assessment of diesel exhaust, OEHHA analyzed more than 30 studies of people who worked around diesel equipment, including truck drivers, railroad workers, and equipment operators. The studies showed these workers were more likely to develop lung cancer than workers who were not exposed to diesel emissions. These studies provide strong evidence that long-term occupational exposure to diesel exhaust increases the risk of lung cancer. Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

CARB identified DPM as a TAC in 1998. Mobile sources (including trucks, buses, automobiles, trains, ships, and farm equipment) are by far the largest source of diesel emissions. The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Diesel exhaust is composed of two phases, either gas or particulate; both contribute to the risk. The gas phase is composed of many of the urban HAPs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particulate phase has many different types that can be classified by size or composition. The sizes of diesel particulates of greatest health concern are fine and ultrafine particles. These particles may be composed of elemental carbon with adsorbed compounds such as organics, sulfates, nitrates, metals, and other trace elements. Diesel exhaust is emitted from a broad range of on- and off-road diesel engines. As the Project would accommodate daily visits from heavy-duty diesel trucks during operations, an analysis of DPM was performed using the USEPA-approved AERMOD model.

The significance thresholds for TAC exposure requires an evaluation of non-cancer risk stated in terms of a hazard index. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-cancer impacts is similar to the procedure for chronic non-cancer impacts. An acute or chronic hazard index of 1.0 is considered individually significant. The hazard index is calculated by dividing the acute or chronic exposure by the reference exposure level.

Vehicle DPM emissions were estimated using emission factors for course particulate matter (PM) generated with the 2021 version of the EMission FACtor model (EMFAC) developed by CARB. EMFAC 2021 is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources. The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled by speed, and number of starts per day. The most important improvement in EMFAC 2021 is the integration of the new data and methods to estimate emissions from diesel trucks and buses. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment.

For this Project, annual average PM (idling and mobile) emission factors were generated by running EMFAC 2021 for vehicles in the Basin within San Joaquin County, for year 2025. EMFAC generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of vehicle speed, temperature, and relative humidity. The model was run for speeds traveled on and within the vicinity of the Project site. Idling was assumed to occur for a maximum of five minutes per hour.

Emissions from the following sources of TACs were analyzed and are shown in Table 2:

- Truck on-site mobile emissions
- Truck on-site idling emissions
- Truck off-site mobile emissions
- TRU generated emissions
- Gasoline refueling operations

TABLE 2: EMISSION SOURCE ASSUMPTIONS

Source Type / Emission	Configuration	Assumptions
On- and Off-site Mobile Diesel Truck Circulation (DPM) *Modeled as line-volume sources* Configuration = Separated 2W	-Release Height = 4 meters (typical truck height) -Plume Height = 6.8 meters[1] -Plume Width = 12 ft (typical truck width) -Line Lengths = based on path of travel	• On-site and off-site travel of 350 trucks per day (Fehr & Peers, 2023). • Traveling distance based on proposed site plan layout and anticipated ingress/egress routes. • Both on-site and off-site mobile circulation modeled. • Off-site mobile routes modeled up to approximately 0.25 miles from project site boundaries.[2] • PM_{10} mobile emissions factor provided by EMFAC2021 [3] (Parameters: San Joaquin County, Annual, Year 2025; emission factor for T7 Tractor Class 8)
On-site Diesel Truck Idling (DPM) *Modeled as volume sources* Release Height = 4 meters (typical truck height)	On-site Idle of 350 trucks per day (Fehr & Peers, 2023). -Release Height = 4 meters (typical truck height)	• 5 minutes idling per vehicle • Emissions Factors based on EMFAC 2021
TRUs (DPM)	*Modeled as point sources* Release Height = 4 meters (typical truck height) Diameter = 0.1 meter Velocity = 57.1 m/s @ 1500 rpm Temperature = 366 K	• Trucks are assumed to run their TRUs for 15 minutes per hour. • 34 hp rated TRUs • Emission factor (Source: ARB Guidelines for in-use Diesel-Fueled Transport Refrigeration Units TRU) • 0.53 load factor • 50% of the 148 truck parking spaces occupied during nighttime (8 hours) • 15% of the 148 truck Parking spaces occupied during Daytime (16 hours) • 15% of trucks have TRUs bases on fleet mix (Source: ATA)

[1] Based on the US EPA Transportation Conformity Guidance on modeling dispersion from vehicle travel, plume height was determined by multiplying the truck height by 1.7. See here: here (pg 55): https://nepis.epa.gov/Exe/ZyPdf.cgi?Dockey=P100NN22.pdf. Assuming a truck height of 4 meters, the resultant plume height would be 6.8 meters.
[2] Consistent with Air District guidance.
[3] EMFAC2021 (v1.0.2) represents the latest version of EMFAC.

Gasoline Service Activities (Benzene)	*Underground tank loading (point source)* Release Height = 3.66 m Temperature = 291 K Diameter = 0.0508 m Velocity = 0.00035 m/s *Underground tank breathing (point source)* Release Height = 3.66 m Temperature = 288.71 K Diameter = 0.0508 m Velocity = 0.000106 m/s *Vehicle refueling (volume source)* Release Height = 4 m Length = 8.4 m Lateral = 1.95 m Vertical = 1.86 m *Spillage (volume source)* Release Height = 4 m Length = 8.4 m Lateral = 1.95 m Vertical = 1.86 m	• 1,800 gallons of gasoline pumped per pump per day • Total of 16 gasoline fueling pumps.

DAILY TRUCK TRIPS AND ROUTES

The total diesel truck trips generated by the proposed project is based on Traffic Analysis prepared for the proposed project prepared by Fehr & Peers (2023). According to Fehr & Peers, the average total daily truck traffic includes 700 heavy-duty truck trips per day. The Traffic Analysis is provided in Appendix 2.

The off-site diesel truck routes were modeled consistent with the requirement that the heavy-duty trucks to utilize the Roth Road/I-5 intersection to access the Project site, as described in the Traffic Analysis prepared by Fehr & Peers (see Appendix 2 of this report for further detail). Off-site diesel truck trips were modeled at least 0.25 miles away from the Project site (in accordance with San Joaquin Valley Air Pollution Control District guidance). The truck routes from the Project site to and from the various north/south ingress/egress routes were modeled based on the ingress/egress points as provided in the Phase 1 Project site plan (see Figure 2 of this report). Phase 1 of the Project was modelled rather than Phase 2, in order to capture a more conservative assessment of the Project's potential health risks, since Phase 1 of the Project has the heavy-duty

truck ingress/egress points closer to the most impacted sensitive receptor, located at 11401 Manthey Road.

Separately, the on-site circulation of trucks was modeled to account for the diesel truck travel within the Project's internal circulation route. Specifically, on-site circulation was modelled to account for internal Project site travel between each of the ingress/egress locations and the circulation pattern and the diesel truck parking areas.

EMISSION RATES

Table 3 provides emissions rates by source and emissions factors. For calculations, data outputs, and reference documents please see Appendix 1.

TABLE 3: EMISSION RATES BY SOURCE

Source	Pollutant	Volume/Size	Emission Factor	Emissions Pounds/Year
On-site Diesel Truck (Mobile) Circulation	DPM	350 trucks on-site per day traveling 0.33 miles	0.008423559 g/mile	0.78395249
Off-site Diesel Truck (Mobile) Circulation	DPM	350 trucks per day	0.00894665 g/mile	4.17
On-site Diesel Truck Idling	DPM	350 trucks per day idling 5 min	0.016170576 g/truck/day	4.55
TRUs	DPM	15% of trucks are assumed to be refrigerated (source: ATA)	0.02 g/hp-hr	2.58
Gasoline Service Activities – Breathing Loss	Benzene	1,800 Gallons of gasoline pumped per pump per day	0.075 lbs benzene/thousand gallons of gasoline	0.79
Gasoline Service Activities – Loading Loss	Benzene	1,800 Gallons of gasoline pumped per pump per day	0.075 lbs benzene/thousand gallons of gasoline	2.65
Gasoline Service Activities – Refueling Loss	Benzene	1,800 Gallons of gasoline pumped per pump per day	0.00252 lbs of benzene per 1,000 gallons of gasoline	13.25
Gasoline Service Activities – Spillage	Benzene	1,800 Gallons of gasoline pumped per pump per day	0.0042 lbs of benzene per 1,000 gallons of gasoline	44.15

SOURCES: EMFAC 2021; AERMOD; FEHR & PEERS (2023).

EXPOSURE ASSESSMENT

Exposure assessment involves translating the emission rate (e.g., lbs/hr, g/hr) of individual toxic air contaminants into the concentration (e.g., grams/cubic meter g /sec m^2 or parts per million) of each toxic air contaminant. The key step in performing an exposure assessment is the application of an air dispersion model. The dispersion model incorporates the local meteorological data (wind speed, wind direction, local temperature, inversions, etc.), stack height, and exhaust flow characteristics, into the dispersion of individual air contaminant. The

Lakes Environmental AERMOD Version 12.0.0 dispersion model was employed for this assessment. The AERMOD output file is shown in Appendix 3.

Modeling Receptors: Receptors were placed at locations of nearby sensitive receptors, including residential and workplace locations. Residential receptors were located at each of the nearby residential receptors, as previously described, as follows:

- The residence located directly south of the Project site, at 11401 Manthey Road;
- Additional residences located south of the Project site, approximately 350 feet south of the southeast boundary of the Project site, also located along Manthey Road;
- Several residences located to the southwest of the Project site, along Manila Road;
- Residences located adjacent to the northern boundary of the Project site, along Manthey Road;
- An additional residence located 1,000 feet to the north of the Project site, along Manthey Road;
- An additional residence located approximately 1,150 feet to the northwest of the northwest boundary of the Project site, along Briggs Avenue;
- Several residences located along Harlan Road, east of I-5, to the east of the Project site.

Additionally, workplace receptors were placed at various locations within the Project site. A 21x21 discrete cartesian grid of receptors was also placed at a radius of 500 meters from the approximate center of the Project site at a distance of 50 meters, to ensure capture of the maximum on-site workplace receptors, as well as to provide for a more detailed TAC risk contour map (it should be noted that although a receptor modeling grid is not required by the SJVAPCD, it provides additional refinement to the TAC risk contours). This approach to modeling receptors is consistent with the SJVAPCD's *Guidance for Air Dispersion Modeling* document, which requires receptor coverage to ensure that the maximum pollutant concentration is captured.

Meteorological Data: Five years of meteorological data was used in the exposure assessment. The meteorological ("Met") data (wind speed, wind direction, temperature, etc.) were recorded at the Stockton, CA location for the latest years of data available from the SJVAPCD. This location was the closest location MET data was available.

RISK ASSESSMENT

Once the emissions rates of individual air contaminants have been calculated, and an air dispersion model has been run through AERMOD, the next step in determining health risks is to determine the cancer risk, and acute and chronic incident rates. Period and 1-hour dispersion files we used in combination with HARP-2 risk modelling software to calculate risk scenarios for residential, and workplace cancer rates, as well as acute and chronic incidences. The Hotspots Analysis and Reporting Program (HARP) is a software suite used to assist with the programmatic requirements of the Air Toxics "Hot Spots" Program [Assembly Bill (AB) 2588]. HARP combines the tools needed to implement the requirements of AB 2588, such as reporting a facilities emissions inventory, determining a facilities prioritization score, conducting air dispersion modeling, and performing a facility health risk assessment. This study utilized the HARP2 Air

Dispersion and Risk Tool with dispersion plot files created in AERMOD. After the risk assessment was complete, HARP-2 plot files were then imported back into AREMOD for spatial and visual representation, and analysis of impact areas.

The Intake Rate Percentile sets the intake rate at which a person is exposed to the air pollutant. This study utilized the high-end intake rate to assess risk at the 95th percentile exposure rate for risk scenarios (see Appendix 4 HARP-2 project summary report). Additionally, cancer risk is assessed using a 70-year exposure duration starting at the third trimester; workplace cancer risks are assessed at a 40-year exposure duration with age 16 being the first potential exposure year.

RISK ASSESSMENT RESULTS

The results of the risk analysis indicate that cancer risks vary depending on the exposure scenario (residential or worker) and on location. As would be expected, locations nearest the Project site have the greatest exposure and the associated risks are considerably lower as distance from the project site increases. Table 4 displays the residential and workplace cancer risk, and acute and chronic incidence rate results at nearest receptors. Figure 3 provides wind patterns at the Stockton, CA location where meteorological data was used for the modeling.

TABLE 4: SUMMARY OF MAXIMUM HEALTH RISKS

RISK METRIC	*MAXIMUM RISK*	*SIGNIFICANCE THRESHOLD*	*IS THRESHOLD EXCEEDED?*
OPERATIONAL			
Residential Cancer Risk (70-year exposure)	28.6 per million	20 per million	No
Workplace Cancer Risk (40-year exposure)	5.9 per million	20 per million	No
Chronic (non-cancer)	0.12	Hazard Index ≥1	No
Acute (non-cancer) [1]	0.24	Hazard Index ≥1	No

SOURCES: AERMOD 12.0.0 (LAKES ENVIRONMENTAL SOFTWARE, 2023); AND HARP-2 AIR DISPERSION AND RISK TOOL (VERSION 22118).

The TAC emissions from the project result from the on-site and off-site truck travel, on-site idling of diesel-fueled vehicles and TRUs, as well as benzene off-gassing from various gasoline service activities. The nearest sensitive receptors are those that surround the Project site, especially directly to the north and south of the Project site.

As shown in Figure 4, the wind patterns in the area generally blow from the northwest. Therefore, off-site health risks associated with the Project tend to be higher south and southeast of the Project site.

Overall, the results show that the total residential cancer risk at the location of the maximally impacted residential receptor would be above the SJVAPCD's threshold of 20 per million.

Specifically, the residence located at 11401 Manthey Road, located directly adjacent to the Project site to the south, would have a residential cancer risk of approximately 28.6 per million. This is largely due to the proximity to the trucks traveling to and from the Project site, particularly during Phase 1 of the Project, when the truck ingress and egress would be located at the southeast corner of the Project site. It should be noted that Phase 1 of the proposed Project was modelled within this HRA, for the purposes of a more conservative assessment of Project health risks. Figure 5 shows the residential operational cancer risk contours surrounding the Project site; as shown in Figure 5, the residence located at 11401 Manthey Road would be within the 20 per million residential cancer risk contour, demonstrating exceedance of the SJVAPCD's 20 per million residential cancer risk threshold. It should be noted that no other residential receptor (other than the residence located at 11401 Manthey Road) was found to be at risk of exceeding the SJVAPCD's threshold of 20 per million for residential cancer risk.

Separately, the maximum workplace cancer risk would occur at the central portion of the Project site, around the gasoline fueling station. The results also show that the maximum workplace cancer risk would also remain below the threshold of 20 in a million, throughout the entire Project site. Moreover, it is very unlikely that any individual would be located at the northern entrance of the Project site for 40 years; therefore, this result represents a conservative estimate. Figure 6 shows the workplace operational cancer risk contours surrounding the Project site.

Chronic or long-term exposures and Acute exposure to DPM can result is non-cancer health effects. Chronic and Acute Non-Cancer Hazards results show that the acute and chronic risk on and near the project site would remain below the hazard index of ≥1.

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FIGURE-1: PROJECT LOCATION

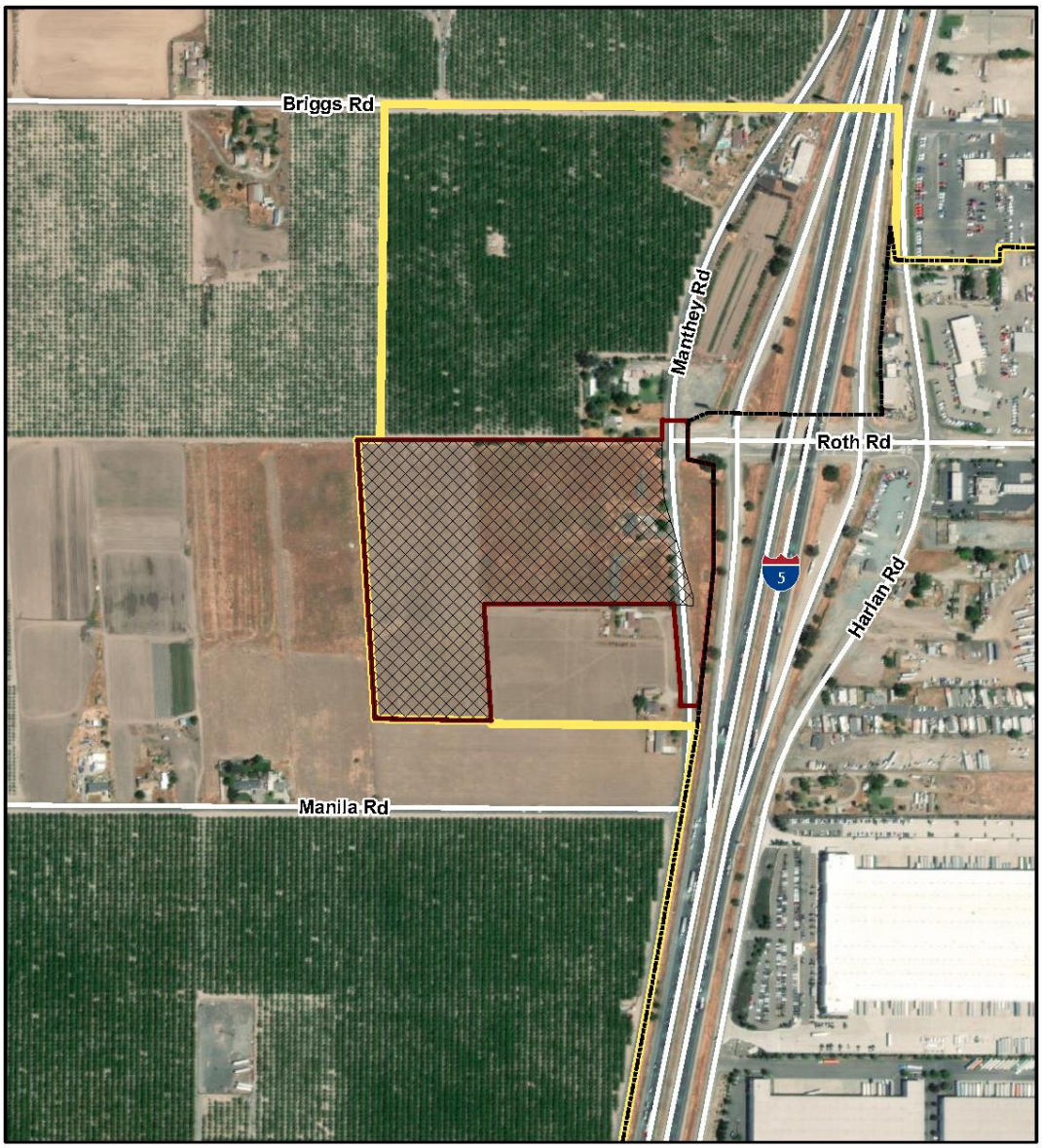

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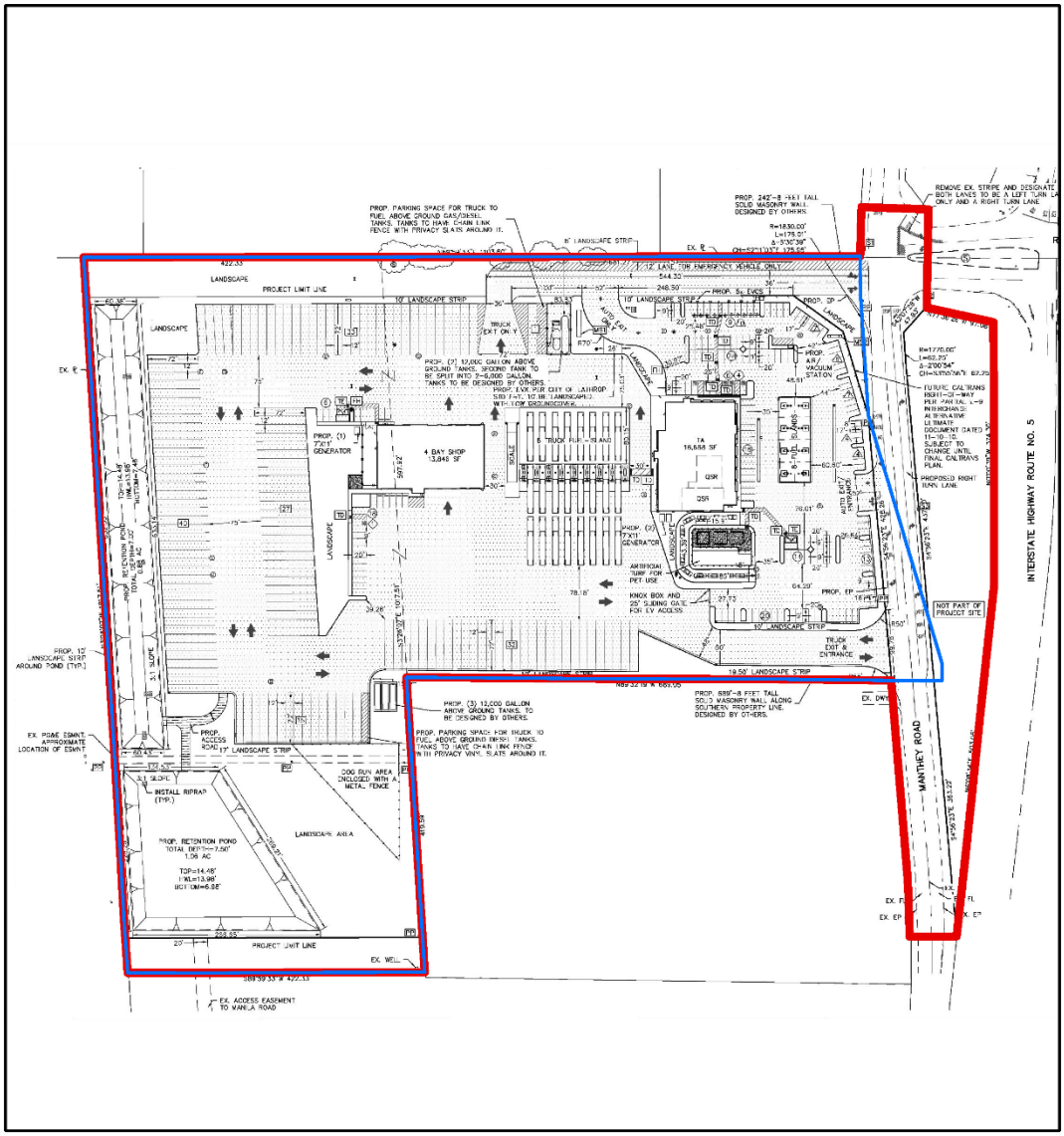
FIGURE-2: INTERIM PROJECT SITE PLAN



SINGH PETROLEUM INVESTMENT PROJECT

Legend

Project Site/Annexation Area

Development Area

Figure 2.0-7. Site Plan Phase I - Interim

0 50 100 200
Feet

Sources: WONG ENGINEERS, April 14, 2023. Map date: May 4, 2023.

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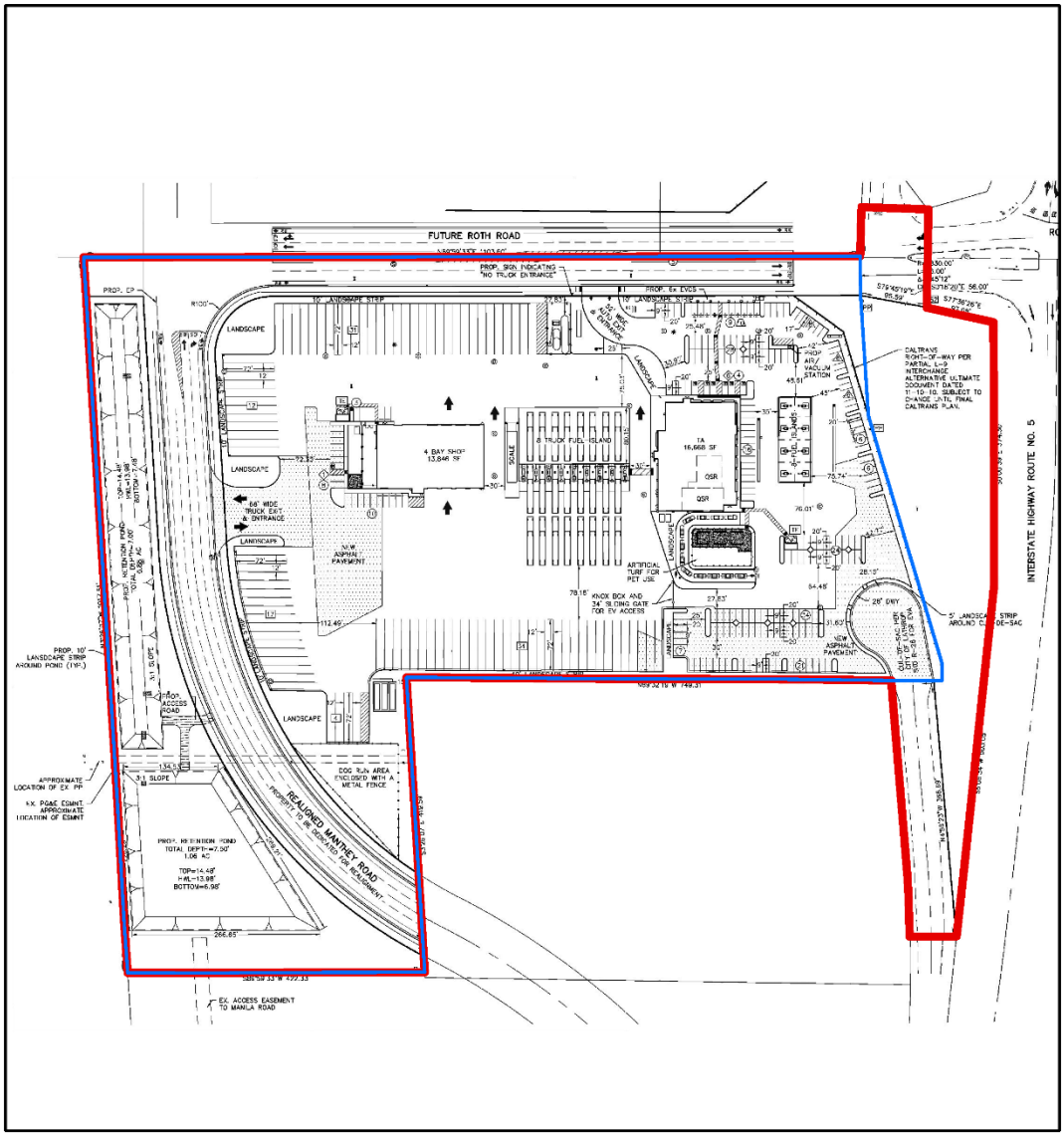
FIGURE-3: BUILDOUT SITE PLAN



SINGH PETROLEUM INVESTMENT PROJECT

Legend

Development Area

Project Area/Annexation Area

Figure 2.0-8. Site Plan Phase II - Buildout

0 50 100 200 Feet

Sources: WONG ENGINEERS, April 14, 2023. Map date: May 4, 2023.

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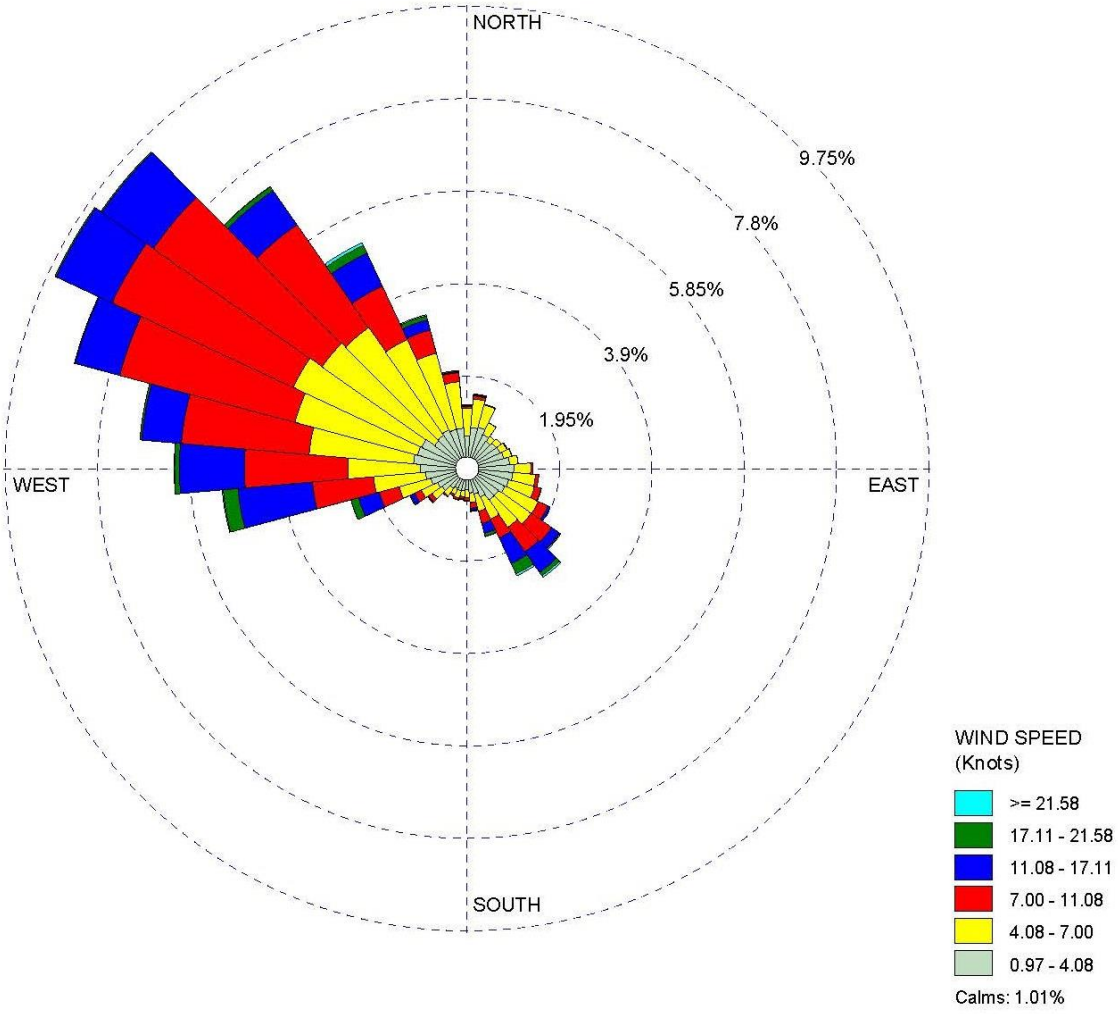
FIGURE-4: WIND PATTERNS (STOCKTON, CA – 2013-2017) LOCATION



Sources: Prepared by De Novo Planning group (2022); Lakes Environmental AERMOD View 11.2.0

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FIGURE-5: RESIDENTIAL CANCER RISK - OPERATIONAL (95TH PERCENTILE)

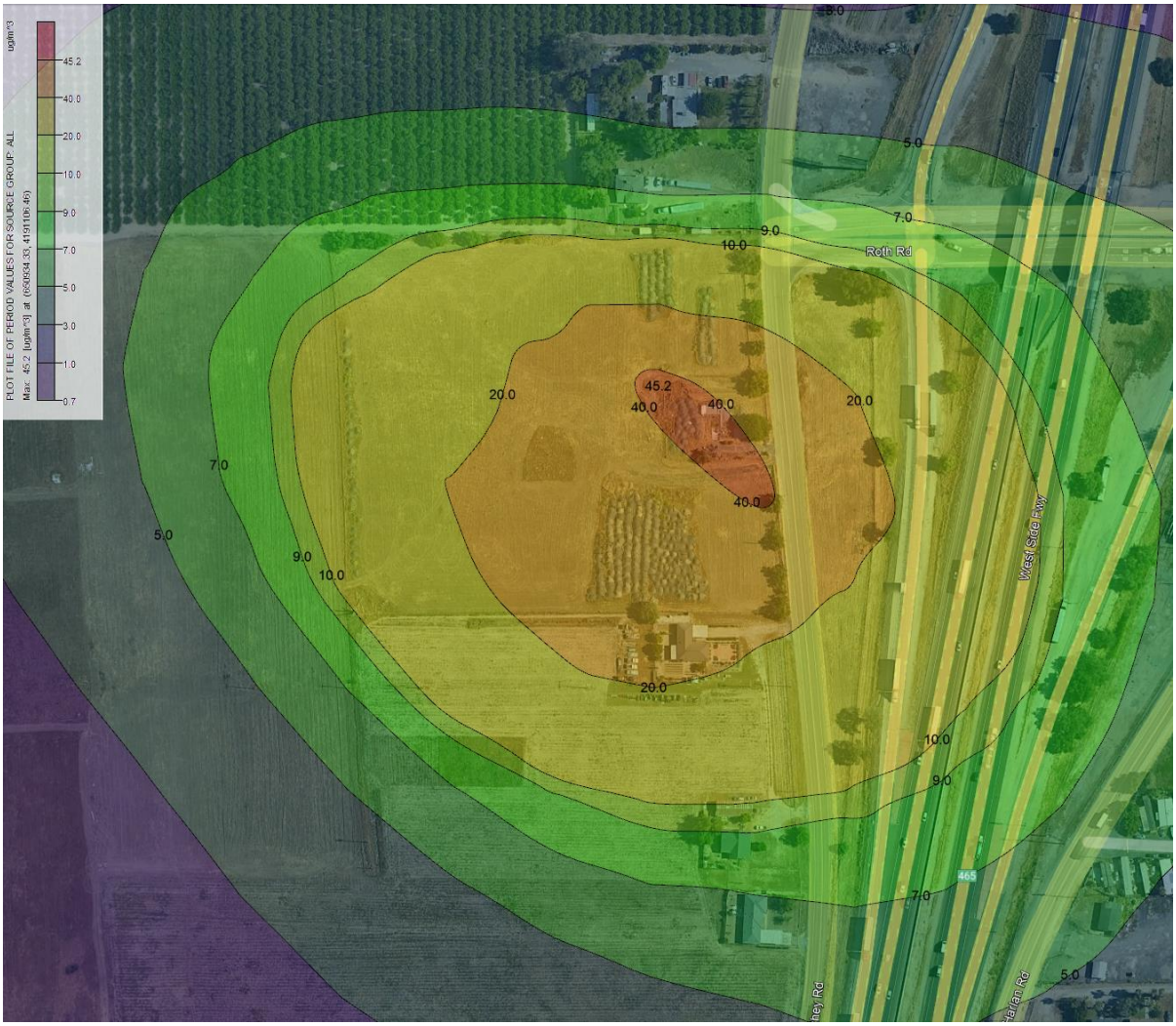

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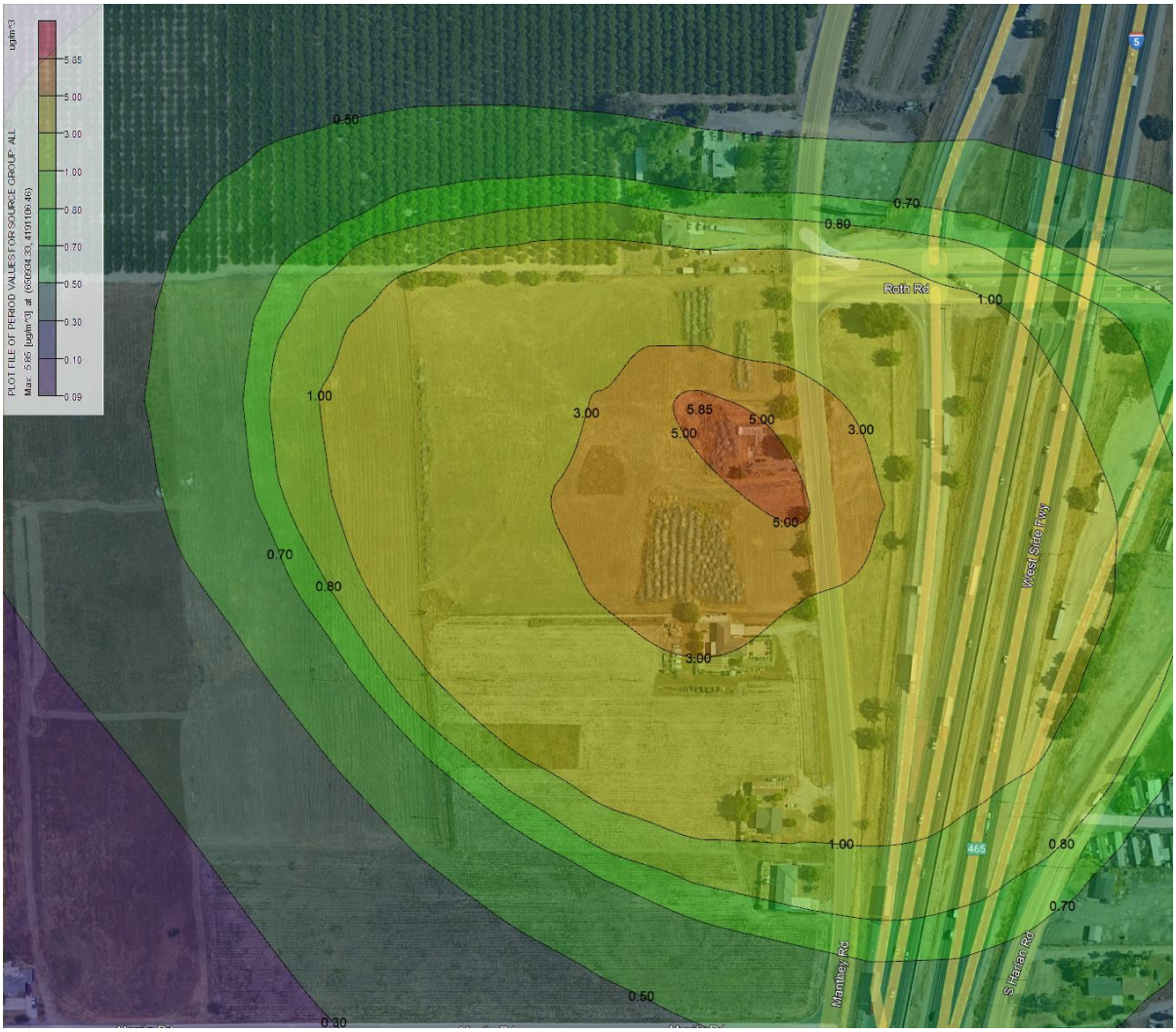
FIGURE-6: WORKPLACE CANCER RISK - OPERATIONAL (95TH PERCENTILE)



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REPORT PREPARERS

This document was prepared by De Novo Planning Group, Inc. of El Dorado Hills under the direction of the City of Tracy. De Novo Planning Group staff participating in document preparation included the following:

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Appendix 1 - Emissions Calculations:

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Joaquin
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	**PM10_IDLEX**
San Joaqui	2025	T7 Tractor Class 8	Aggregate	Aggregate	Diesel	**0.016170576**

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: County
Region: San Joaquin
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC202x Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Total VMT	PM10_RUNEX
San Joaquin	2025	T7 Tractor Class 8	Aggregate	10	Diesel	1778.14647	**0.008423559**
San Joaquin	2025	T7 Tractor Class 8	Aggregate	40	Diesel	7696.649431	**0.008946645**

Mobile Truck Emissions - On-site Mobile

meters per mile: 1609.34 pounds per gram: 0.002205

Assumptions:			Source:
1. Distance travelled on-site per truck (line segment)[1]:	0.3304452	miles	AERMOD
2. # of trucks per day (total):	350	trucks	Kimley Horn
4. PM10 Mobile Em. Factor (San Joaquin County, Year 2025 Aggregate MPH, T7 Tractor Class 8:			EMFAC2021 (v1.0.2)
Note: T7 Tractor Class 8 EF was used for a conservative EF (large truck class).[2]	**0.00842356**	g/mile	

Therefore:
Total daily PM10 On-site Mobile Emissions Generated by the project:

	0.97423367	**g/day-all trucks**
	0.00214782	lbs/day-all trucks
	0.78395249	**lbs/year-all trucks**

Max Hr Emissions

As provided by the Kimley Horn Traffic Study:	280	Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)
	0.001718	**lbs/hour-all trucks**

Notes:
[1]This assumes that each truck will travel entire site layout, around the largest of the two buildings (i.e. a highly conservative assumption).
[2]10 MPH Emission factor was utilized for on-site truck travel.

Truck Idling

CARB EMFAC2021 idling emission factors for 2025 T7 Tractor Class 8 diesel trucks: PM10 **0.01617058** g/truck per day Source: EMFAC 2021

Note: This is a highly conservative assumption, as it assumes that the average idling per truck per day would occur entirely within the Project site.

350 Total # of trucks per day Source: Fehr & Peers, 2023

5.65970175 g/day-all trucks

2065.79114 g/year-all trucks

4.55428446 lbs/year-all trucks

pounds per gram: 0.00220462

As provided by the Fehr & Peers Traffic Study: 280 Peak hour truck trips (maximum peak hour truck trips is used for the sake of a conservative analysis)

Annual Emissions:	**0.65061207**	lbs/year-all trucks for each of the	**7**	idling points
Max Hr Emissions:	**0.0014260**	lbs/hour-peak hour trucks for each of the	**7**	idling points

Truck TRU

pounds per gram: 0.002205

0.02	g/hp-hr source: ARB	
34	hp rated TRU engines	
148	truck parking spaces as per site plan	
0.15	15% of trucks are refrigerated trucks (based on the # of 500,000 trucks in the U.S being reefers and approximately 3.2 million trucks in use nationwide).	Source ATA
0.5	Assume 50% of parking spaces are full during the nighttime	
0.15	Assume 15% of parking spaces are full during the daytime	
0.53	Load Factor of 0.53 based Walmart Riverwalk Marketplace HRA Impact Sciences, Inc	
0.25	Trucks are expected to run their TRUs for 15 minutes per hour (Leland Vilalvazo, phone conversation)	On/Off Cycle Factor
11.1	# of refrigerated trucks parked at nighttime during any given hour	
3.33	# of refrigerated trucks parked at daytime during any given hour	
8	Hours in a night	
16	Hours in a day	

8.00088	**Nighttime Emissions (g/day)**	
4.800528	**Daytime Emissions (g/day)**	

Total		
12.801408	**Emissions (g/day)**	
4,673	**Emissions (g/year)**	
10.301	**Emissions (lbs/year)**	Total
2.575	**Emissions (lbs/year)**	Note: Split over 4 point sources

Total Max 1 Hr		
1.00011	**Emissions (g/hr)**	
1.00011	**Emissions (g/hour)**	
0.00220	**Emissions (lbs/hour)**	Total
0.00055	**Emissions (lbs/hour)**	Note: Split over 4 point sources

Breathing loss (U/G tank)

	657,000	gallons of gasoline pumped per pump (conservative factor provided by the SJVAPCD).
	16	pumps at 8 stations
emission factor:	0.025	lbs gasoline vapor/thousand gallons of gasoline (source: SJVAPCD).
	0.000075	lbs benzene/thousand gallons of gasoline (source: SJVAPCD).
	788	thousand lbs of gasoline vapor/year
Annual result:	0.788	lbs of benzene vapor/year
	0.788	lbs of gasoline vapor/year
	365	days in a year
	24	hours in a day
Max Hr result:	0.00009	max lbs of benzene vapor/hr

U/G Tank filling (Loading) loss (98%)

	657,000	1,800 gallons of gasoline pumped per pump (conservative factor provided by SJVAPCD), equ. to 657,000 gallons per year
	16	pumps at 8stations
emission factor:	0.084	lbs gasoline vapor/thousand gallons of gasoline (source: SJVAPCD).
	0.000252	lbs benzene/thousand gallons of gasoline (source: SJVAPCD)
	2,649	thousand lbs of benzene vapor/year
Annual result:	2.649	lbs of benzene vapor/year
	2.649	lbs of benzene vapor/year
	365	days in a year
	24	hours in a day
Max Hr result:	0.0003024	max lbs of vapor/hr

Passenger Vehicle - Gasoline Dispensor

Refueling Vehicle fueling loss (95%) (Passenger Vehicle)

	1,800	gallons gasoline pumped per pump/per day (conservative factor provided by SJVAPCD).
	657,000	gallons gasoline pumped per pump/per year (conservative factor provided by SJVAPCD).
	16	pumps at 8 stations.
emission factor:		
	0.00126	Benzene Emission Factor (lb/1,000 gal) (source: SJVAPCD).
	13,245	thousand lbs of benzene vapor/year
Annual result:	13.25	lbs of Benzene/year (total)
	1.66	lbs of Benzene/year (for each pump station)
	1,800.00	gasoline per pump per day
	75.00	max hour per pump average
	0.00126	Benzene Emission Factor (lb/1,000 gal) (source: SJVAPCD)
	16	pumps
Max Hr result:	0.001512	max lbs of benzene/hr
	0.000189	lbs/pump station

Spillage (Passenger Vehicle)

	657,000	1,800 per-pump/day of gasoline pumped (conservative factor provided by SJVAPCD).
	16	pumps at 8 stations
emission factor:		
	0.0042	Benzene Emission Factor (lb/1,000 gal) (source: SJVAPCD).
	44,150	thousand lbs of benzene vapor/year
Annual result:	44.15	lbs of Benzene/year (total)
	5.52	lbs of Benzene/year (for each pump station)
	1,800.00	gasoline per pump per day (source: SJVAPCD).
	75.00	max hour per pump average
	0.0042	
	16	pumps
Max Hr result:	0.01	max lbs of benzene/hr
	0.00063	lbs/pump station

Sum of Refueliing Vehicle fuling loss and Spillage Combined

Annual result:	**57.396**	lbs of benzene vapor/year
Max Hr result:	**0.00504**	max lbs of vapor/hr

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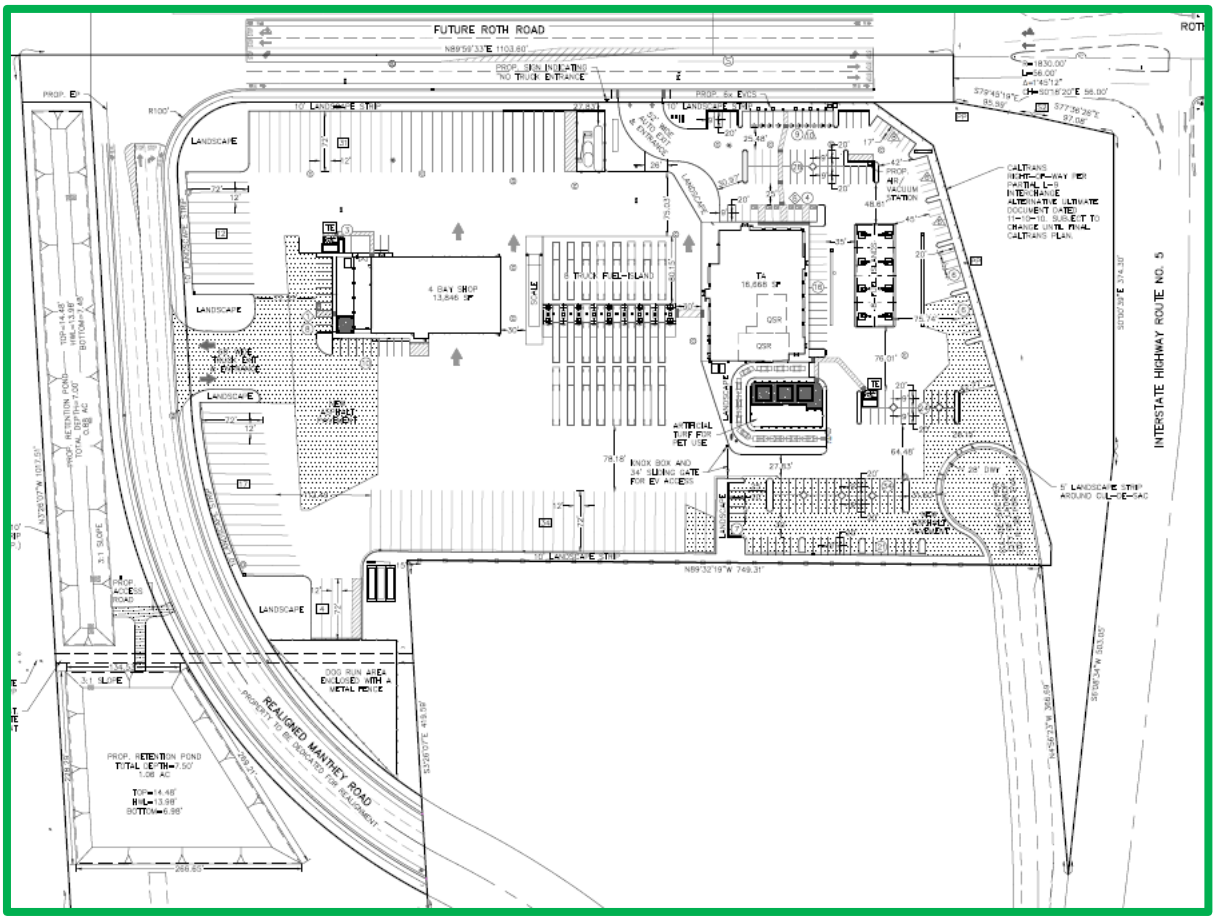
Appendix 2 – Trip Generation Technical Memorandum:

The Singh Petroleum Investments Project
Transportation Analysis Report - Final



Prepared for:
De Novo Planning Group
City of Lathrop

August 23, 2023

RS22-4159

FEHR PEERS

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1. Introduction

This study addresses potential transportation impacts associated with the proposed Singh Petroleum Investments Project located on the south-west corner of the Roth Road / Manthey Road intersection in the City of Lathrop, California. This Transportation Analysis Report documents the methodologies, inputs, and results of the vehicle miles traveled, passenger vehicle and truck trip generation, intersection operations, safety, and site access.

1.1 Project Description

The Project site includes approximately 19.63 acres located in the north-west area of the City of Lathrop, west of Interstate 5 and south on Roth Road. The Project site is identified as Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, by the San Joaquin County Assessor's Office. The Project site is bounded by Roth Road to the north, Interstate 5 and Manthey Road to the east, and low density / residential / agricultural land to the west and south. **Figure 1** shows the location of the project site.

The proposed Project includes an 8-island (16 position) fueling station for passenger cars and trucks, an 16,668 square foot retail / convenience store that includes a quality sit-down restaurant (QSR) with a drive-thru lane that includes stacking space for up to 12 vehicles, an 8-truck fuel island, and a 13,846 square foot truck service / repair facility. The proposed project would provide a total of 176 regular vehicle parking spaces, seven (7) disables access and 20 compact parking spaces for passenger cars and trucks. As part of the parking supply, a total of nine (9) standard electric vehicle and one (1) van electric vehicle charging stations will be provided. In addition to these passenger vehicle spaces, a total of 98 truck/trailer parking spaces will be provided behind the store building on the west side of the project site.

Under Near-term conditions, access to the project site would be provided via two (2) full-access driveways on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Act (STAA) trucks. Two outbound (right-turn only) driveways would be provided on the extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal STAA trucks. **Figure 2** displays the near-term project site plan and access driveways.

Under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on Roth Road, approximately 400 feet west of the Roth Road / Manthey Road intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. Lastly, the current Manthey Road would be cul-de-sac'd and not provide any access to the project site. **Figure 3** displays the cumulative project site plan and access driveways.

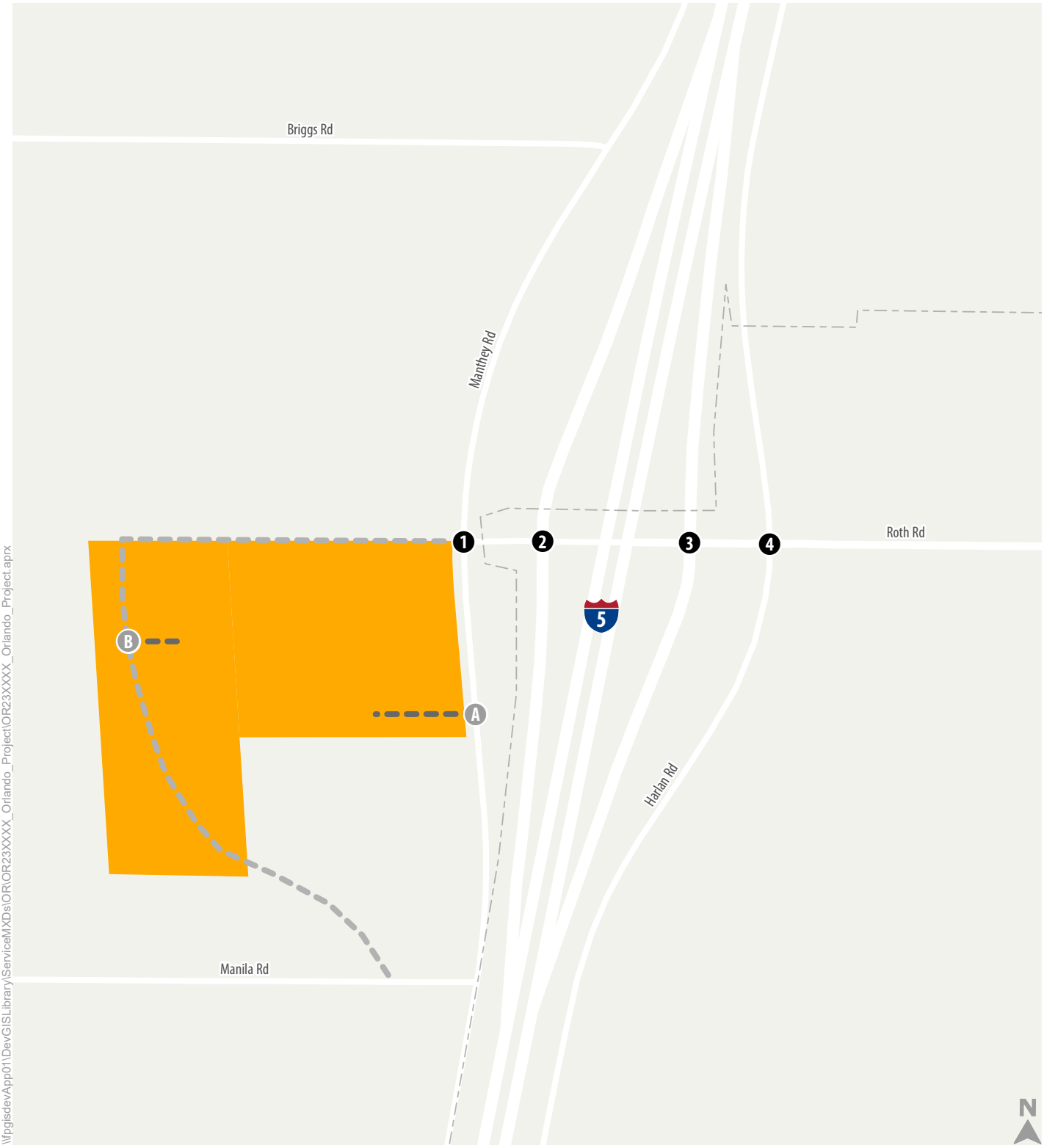

Figure 1

Project Study Area

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Figure 2

Near-Term Project Site Plan

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Figure 3

Cumulative Project Site Plan

2. Vehicle Miles Traveled

This chapter describes the significance criteria and the methodology used to evaluate project impacts related to vehicle miles traveled.

2.1 Applicable Policies and Significance Criteria

Vehicle Miles Traveled

Senate Bill (SB) 743 was signed into law in 2013 and resulted in a substantial change in the way transportation impact analyses are being prepared. Notably, it precludes the use of level of service (LOS) to identify significant transportation impacts in CEQA documents for land use projects, with SB 743 recommending that vehicle miles traveled (VMT) be used as the preferred metric.

On December 28, 2018, the CEQA Guidelines were amended to add Section 15064.3, Determining the Significance of Transportation Impacts, which states that generally, VMT is the most appropriate measure of transportation impacts. According to 15064.3(a), "Except as provided in subdivision (b)(2) (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact." Beginning on July 1, 2020, the provisions of 15064.3 applied statewide.

To 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).[1] The *Technical Advisory* helps lead agencies think about the variety of implementation questions they face with respect to shifting to a VMT metric. However, the guidance is not a recipe for SB 743 implementation; lead agencies must still make their own specific decisions about methodology, thresholds, and mitigation.

The City of Lathrop adopted thresholds of significance and screening criteria for the purpose of analyzing transportation impacts under the California Environmental Quality Act (CEQA) related to vehicle miles Traveled (VMT) on September 20, 2020 and in the City of Lathrop General Plan Update (September 2022) Circulation Element. The methodology and thresholds identified in Attachment 2 in Resolution No. 20-4784 will be applied to the Singh Petroleum Investments Project to determine if the proposed project would result in a CEQA VMT impact.

The City's guidelines identify VMT per employee as the VMT metric for retail / commercial land uses. VMT per retail employee includes VMT associated with trips produced by a proposed project on a typical weekday. The VMT Guidelines also identify a proposed project resulting in a net increase in existing city-wide VMT per employee would indicate a significant transportation impact. This metric reflects the nature of most local-serving retail to distribute existing vehicle trips and serve both pass-by and diverted vehicle trips, rather than generate or inducing all new vehicle trips to and from the project site.

[1] http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

2.2 VMT Analysis Methodology

As part of the City of Lathrop General Plan Update project, Fehr & Peers developed the City of Lathrop, Manteca and Ripon Travel Forecasting Model (Three City TFM). The Three City TFM is a modified version of the Three-County RTP/SCS Air Quality Conformity Model, with improvements to all major components (transportation network, land use, and trip-generation rates) focused on this three-city area. Each scenario of the TFM used for VMT forecasting is described below.

Baseline Year (2019) TFM

The Base Year TFM developed for the General Plan Update was used to develop Baseline city-wide average weekday daily VMT per employee for all retail / commercial projects in the City of Lathrop. It should be noted that the use of VMT per employee is the standard methodology used to evaluate potential SB 743 VMT impacts. The Baseline Year TFM incorporates Base Year land use data for dwelling units (single-family and multi-family) and employment (food, retail, office, industrial, medical, government, and school), as well as the roadway network (travel lanes, speed, capacity class), based on Base Year (i.e., 2019) data. The Three City TFM vehicle trip generation rates were derived from the Institute of Transportation Engineer's (ITE) Trip Generation Manual and include inbound/outbound trip generation rates for residential and employment land uses for Daily, AM and PM peak hour conditions.

The Three City TFM was calibrated to reflect more accurate trip distribution for Internal-to-Internal Trips (II), Internal-to-External Trips (IX), External-to-Internal Trips (XI) and External-to-External (XX or Through) Trips based on a combination of the Caltrans Household Travel Survey (CHTS), the American Community Survey (ACS), and California Statewide Model to replicate the majority of vehicle trips traveling to and from the west (Metropolitan San Francisco Bay Area) and a smaller percentage to and from the north (including Stockton and Sacramento) and the smallest percentage to and from the south (I-5 corridor).

The existing (baseline) city-wide average VMT per employee was determined to be 135.3 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

Cumulative Adopted (September 2022) General Plan Buildout Scenario TFM

The City of Lathrop updated its General Plan, and the Three City TFM was used to estimate the Project's weekday daily home-based VMT per retail employee under cumulative Adopted General Plan Buildout conditions. This scenario of the TFM incorporates land use data (dwelling units and employment) and reflects the City of Lathrop's jobs-housing balance, II, IX, XI, and XX trips under cumulative conditions where the City of Lathrop General Plan is built out.

This scenario also incorporates roadway network (lanes, speed, capacity class) based on the adopted City of Lathrop General Plan, the City of Lathrop Capital Improvement Program (CIP), and the San Joaquin Council of Government (SJCOG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) Project List.

The cumulative (general plan) city-wide average VMT per employee was determined to be 211.5 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

2.3 VMT Impact Analysis

As discussed earlier in this chapter, the proposed Project would result in a significant transportation impact if the proposed project would result in a net increase in Baseline (existing) Lathrop city-wide VMT by employee or Cumulative Lathrop city-wide VMT by employee.

Table 1 presents the established city-wide VMT and the Project generated VMT under baseline and cumulative conditions. VMT generated by the Project is compared to the baseline city-wide average VMT per employee. As discussed in Chapter 5, the proposed Singh Petroleum Investments Project would result in a combination of net new, pass-by and diverted vehicle trips and associated VMT per employee.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work and represent approximately 20% of the daily VMT.

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project and represent approximately 15% of the daily VMT.

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project and represent approximately 65% of the daily VMT.

Table 1: Vehicle Miles Traveled (VMT) Analysis – Project-Generated VMT

Scenario	VMT per Retail Employee	Compared to Baseline City-wide Average Without Singh Petroleum Investments Project
Existing (Baseline) City-wide Average	135.3	-
Singh Petroleum Investments Project – Existing (Baseline) Conditions Net New Trips – 20% - VMT of 135.3 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	27.8	- 79.5%
Cumulative Lathrop General Plan Update	211.5	
Singh Petroleum Investments Project - Cumulative Lathrop General Plan Update Net New Trips – 20% - VMT of 195.2 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	43.1	- 79.6%

Source: City of Lathrop Travel Demand Model - Fehr & Peers, 2023

As displayed, under Existing (Baseline) Conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

The Adopted (September 2022) General Plan Update includes a substantial increase in both employment and retail land uses, which would allow residents to travel shorter distances to access jobs and local services without the need to travel outside of the City of Lathrop. To complement this increase in employment, the City of Lathrop General Plan also includes a substantial increase in residential projects (single-family and multi-family dwelling units) that would complement the employment and retail land uses by supplying workers (employees) and patrons (shoppers) to businesses. The improved jobs-housing balance under the cumulative scenario is consistent with the City's vision for future development of providing local services for a growing population.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be less-than-significant.

3. Intersection Operations Analysis

This chapter describes the significance criteria and methodology used to analyze the study intersections identified below, and methodology used to develop traffic forecasts for study intersections.

3.1 Study Area

The study area was selected based on the Project's location, site access, and anticipated trip distribution and assignment to the surrounding transportation system. The analysis considers traffic operations at the following intersections, which are displayed in Figure 1.

Study Intersections

1. Manthey Road / Roth Road;
2. Southbound Interstate 5 On/Off-Ramps / Roth Road;
3. Northbound Interstate 5 On/Off-Ramps / Roth Road; and
4. Harlan Road / Roth Road.

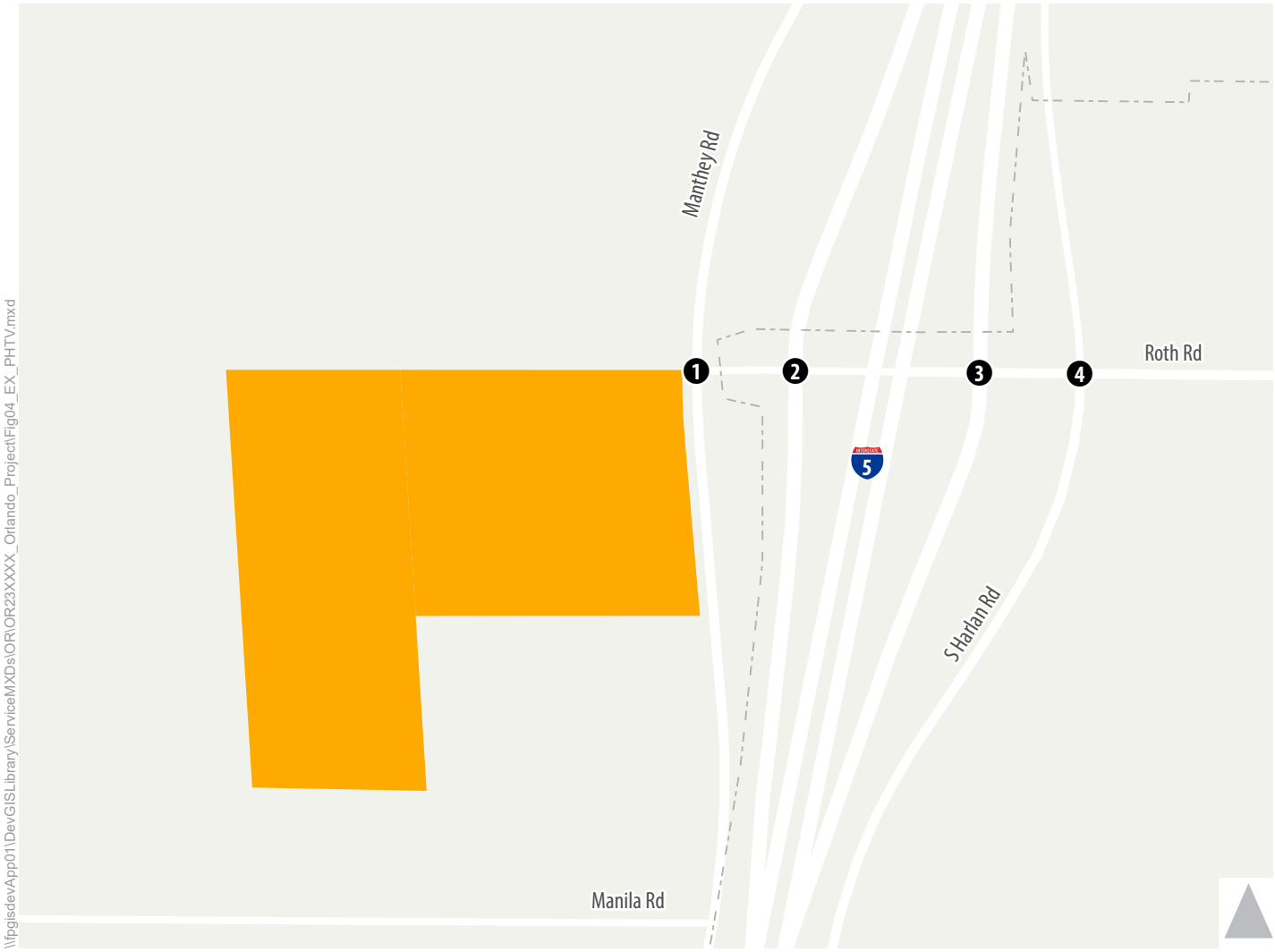
Study Scenarios

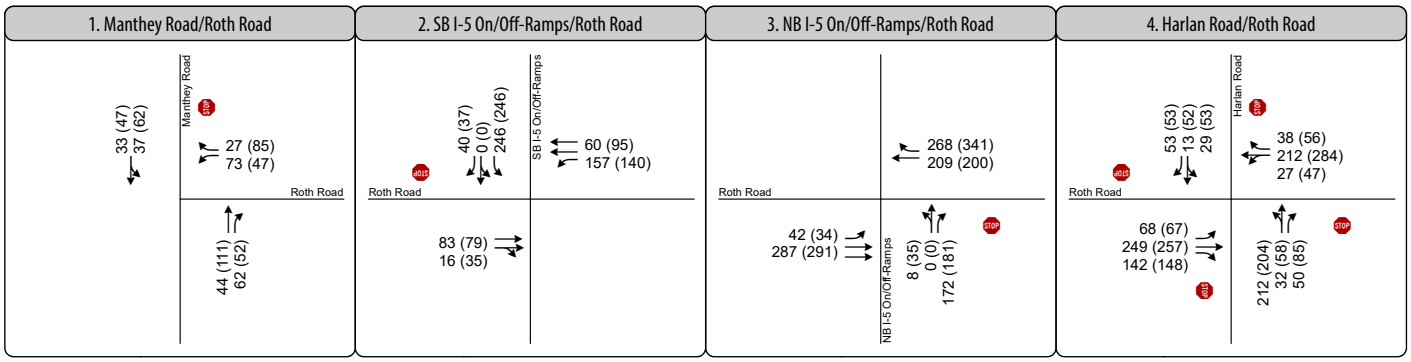
The study intersections were evaluated for the following four scenarios:

- **Existing Conditions** – Analyzes operations as they exist today (Spring 2023).
- **Existing Plus Project Conditions** – Analyzes existing operations with the addition of trips generated by the proposed Singh Petroleum Investments Project. The Base Year TFM developed for the General Plan Update was used to develop project trip distribution during the AM peak hour and PM peak hour.
- **Cumulative No Project Conditions** - Analyzes Year 2040 volumes based on the City of Lathrop. Manteca, and Ripon Travel Forecasting Model (Three City TFM), assuming the project site remains in its current undeveloped state.
- **Cumulative Plus Project Conditions** – Analyzes Year 2040 volumes with the addition of trips generated by the proposed Singh Petroleum Investments Project.

3.2 Data Collection

Traffic count data at the four (4) study intersections was collected by the City of Lathrop for their Traffic Monitoring Program and provided for use as Existing weekday morning (AM) and evening (PM) peak hour turning movement volumes. Intersection turning movement counts were conducted during the AM (7:00 to 9:00) and PM (4:00 to 6:00) peak periods. **Figure 4** displays the existing weekday AM and PM peak hour intersection turning movement counts at the study intersections.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 4

Peak Hour Traffic Volumes and Lane Configurations - Existing Conditions

3.3 Analysis Methodology

Level of Service

Study intersections were analyzed using procedures and methodologies contained in the Highway Capacity Manual – 7th Edition (Transportation Research Board, 2022). These methodologies were applied using Synchro/SimTraffic 11 software which considers traffic volumes, lane configurations, intersection control type, signal timings (as applicable), and other pertinent parameters of intersection operations.

As previously noted, Level of Service (LOS) may no longer be used to identify significant transportation impacts in CEQA documents for land use projects. However, this analysis includes an LOS analysis to determine if the proposed project would result in deficient intersection operations per the City of Lathrop standards. Policy CIR-1.3 of the 2022 General Plan strives for LOS D or better within the City, except where maintaining such levels of service is infeasible.

LOS is a qualitative measure of traffic operating conditions whereby a letter grade, from A (the best) to F (the worst), is assigned. These grades represent the perspective of drivers and are an indication of the comfort and convenience associated with driving. In general, LOS A represents free-flow conditions with no congestion, and LOS F represents severe congestion and delay under stop-and-go conditions. For signalized intersections, roundabouts and all way stop control intersections, LOS is based on the average delay experienced by all vehicles passing through the intersection. For side-street stop-controlled intersections, the delay and LOS for the overall intersection is reported along with the delay for the stop controlled movements. **Table 2** displays the delay range associated with each LOS category for signalized and unsignalized intersections.

Table 2: Intersection Level of Service (LOS) Criteria			
LOS	**Description (for Signalized Intersections)**	**Average Delay (Seconds/Vehicle) at Signalized Intersections**	**Average Delay (Seconds/Vehicle) at Unsignalized Intersections**
A	Operations with very low delay occurring with favorable traffic signal progression and/or short cycle lengths.	< 10.0	< 10.0
B	Operations with low delay occurring with good progression and/or short cycle lengths.	> 10.0 to 20.0	> 10.0 to 15.0
C	Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	> 20.0 to 35.0	> 15.0 to 25.0
D	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	> 35.0 to 55.0	> 25.0 to 35.0
E	Operations with high delay values indicating poor progression, and long cycle lengths. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	> 55.0 to 80.0	> 35.0 to 50.0
F	Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths.	> 80.0	> 50.0
Note: LOS = level of service; V/C ratio = volume-to-capacity ratio Source: Transportation Research Board, 2022			

Traffic Volume Forecasting

Existing (Base Year) Three City Travel Forecasting Model

The Existing (Base Year) Three City TFM developed for the General Plan Update, as described in Chapter 2, was used to develop trip distribution under Existing Plus Project conditions. The traffic forecasting adjustment procedure known as the "difference method" was used to develop Cumulative No Project conditions AM and PM peak hour traffic forecast.

For a given intersection, this forecasting procedure is calculated as follows for every movement at the study intersections:

Cumulative Year No Project Forecast =
Existing Volume + (Year 2040 TFM Volume – Existing (Base Year) TFM Volume)

Approved General Plan Update (Year 2040) Scenario TFM

The Approved General Plan Update (Year 2040) TFM was developed based on projected future land use and transportation network for the City of Lathrop and adjacent City of Manteca and City of Ripon. Similar to other cities in the Central Valley region, the City of Lathrop is projecting major growth for both housing (population) and employment (jobs) in the General Plan Buildout scenario. The Year 2040 model scenario was developed in coordination with both the City of Lathrop and City of Manteca to ensure that the TFM represents market-based demand for future growth in both housing (population) and employment (jobs), and therefore does not underestimate or overestimate traffic demand volumes.

The City of Lathrop 2040 land use inputs were developed based on the City of Lathrop's approved and anticipated projects that will be constructed and occupied by year 2040. The City of Manteca 2040 land use inputs was also developed based on the City of Manteca's approved and anticipated projects that will be constructed and occupied by year 2040.

The Approved General Plan Update (Year 2040) 2040 TFM was updated to reflect the proposed Singh Petroleum Investments Project and two other projects located south of the Manthey Road / Roth Road intersection. The traffic forecasting adjustment procedure known as the "difference method" was used to develop Year 2040 AM and PM peak hour traffic forecasts.

For a given intersection, this forecasting procedure is calculated as follows for every movement at the study intersections:

Cumulative Year With Project Forecast =
Existing Volume + (Year 2040 TFM Volume – Existing (Base Year) TFM Volume)

4. Existing Conditions

This chapter presents the existing bicycle, pedestrian, and transit facilities and intersection operations under Existing Conditions.

4.1 Existing Bicycle and Pedestrian Facilities

The following sections define bicycle facility types:

Class I Bikeway: Bike Path

Bike paths, often referred to as shared-use paths or trails, are off-street facilities that provide exclusive use for non-motorized travel, including bicyclists and pedestrians. Bike paths have minimal cross flow with motorists and are typically located along landscaped corridors.

Class II Bikeway: Bike Lane

Class II bike lanes are on-street facilities that use striping, stencils, and signage to denote preferential or exclusive use by bicyclists. On-street bike lanes are located adjacent to motor vehicle traffic.

Class III Bikeway: Bike Route

Class III bike routes are streets with signage and optional pavement markings where bicyclists travel on the shoulder or share a lane with motor vehicles. Class III bike routes are utilized on low-speed and low-volume streets to connect bike lanes or paths along corridors that do not provide enough space for dedicated lanes.

Class III Bikeway: Bicycle Boulevard

Class III bicycle boulevards are similar to Class III bike routes, in that they are primarily utilized on low-speed and low-volume streets, and can close important gaps in the bicycle network where there may be insufficient space for dedicated lanes. Bicycle boulevards provide further enhancements to bike routes to encourage slow speeds and discourage non-local vehicle traffic via traffic diverters, chicanes, traffic circles, and/or speed tables.

Class IV Bikeway: Separated Bikeway

Class IV separated bikeways, commonly known as cycle tracks, are physically separated bicycle facilities that are distinct from the sidewalk and designed for exclusive use by bicyclists. They are located within the street right-of-way, but provide comfort similar to Class I bike paths.

Pedestrian facilities include sidewalks along roadways, crosswalks at intersections, and pedestrian push buttons and pedestrian signal timings at signalized intersections.

There are currently no bicycle or pedestrian facilities on Manthey Road, Roth Road, or Harlan Road in the project study area.

4.2 Existing Transit Service and Facilities

Route 90 connects Lathrop to Stockton and Tracy with service weekdays, once in the morning and once in the afternoon both northbound and southbound. A stop is provided on Louise Avenue at Harlan Road and 5th Street at the Lathrop Community Center.

Route 150 provides commuter service from Lathrop to the Dublin/Pleasanton BART station with seven departures every day. One stop is provided at the Crossroads Shopping Center on Harlan Road south of Lathrop Road.

Van Go! on-demand rideshare service provides travel anywhere withing the county with a 48-hour reservation from 8 AM to 5 PM seven days a week.

There is currently no local or regional transit stop in the vicinity of the project site.

4.3 Existing Intersection Operations

Table 3 displays the existing AM and PM peak hour operations at the study intersections. Technical calculations are displayed in **Appendix A**.

Table 3: Intersection Operations – Existing Conditions

Intersection	Control Type	AM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	4.7 (WB LT) 0.8 (WB RT) 1.8 (Entire)	A A A	6.1 (WB LT) 1.1 (WB RT) 1.8 (Entire)	A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (SB LT) 3.8 (SB RT) 5.6 (Entire)	B A A	10.5 (SB LT) 3.8 (SB RT) 5.1 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	9.8 (NB LT) 5.1 (NB RT) 2.9 (Entire)	A A A	11.2 (NB LT) 12.5 (NB RT) 5.1 (Entire)	B B A
4. Harlan Road / Roth Road	AWSC	10.7	B	26.2	C

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control AWSC = All-Way Stop Control
Source: Fehr & Peers, 2023

Under both Existing AM and PM Peak Hour Conditions, all three (3) side-street stop controlled intersections operate at acceptable LOS A or B conditions. The all-way stop controlled Harlan Road / Roth Road intersection operates at acceptable LOS B conditions during Existing AM Peak Hour Conditions, and acceptable LOS C conditions during Existing PM Peak Hour Conditions.

5. Existing Plus Project Conditions

This chapter presents the results of trip generation, distribution of traffic and intersection operations analysis under Existing Plus Project conditions.

5.1 Project Trip Generation

The Project's trip generation was estimated using trip rates published in the *Trip Generation Manual 11th Edition* (Institute of Transportation Engineers, 2021). **Table 4** displays the estimated gross total number of Daily (4,576 vehicle trips), AM peak hour (208 vehicle trips), and PM peak hour (280 vehicle trips) that are comprised of passenger cars/trucks and California legal and STAA trucks for the proposed Singh Petroleum Investments Project. It should be noted that Table 4 includes an approximately 24% internalization rate, which is defined as the percentage of customers that would purchase both gas/diesel and food, snacks, coffee, etc. in the retail store.

Table 4: Summary of Project Trip Generation

Land Use	Quantity	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	16,688 square feet	728	44	22	22	58	29	29
Gasoline Pumps / Service Station (ITE Land Use Code 944)	16 Fueling Positions	2,064	124	62	62	166	83	83
Diesel Pumps / Service Station (ITE Land Use Code 944)	8 Fueling Positions	516	30	15	15	42	21	21
Truck Repair (ITE Land Use Code 943)	13,846 square feet	182	10	5	5	14	7	7
Total		3,490	208	104	104	280	140	140

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 5 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for Weekday Daily (24 Hour) Conditions. The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work and represent approximately 20% of the daily trip generation.

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project and represent approximately 15% of the daily trip generation.

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project and represent approximately 65% of the daily trip generation.

Table 5: Daily (24 Hour) Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	72	72	144	55	55	110	236	236	472
Gasoline Pumps / Service Station (ITE Land Use Code 944)	206	206	412	155	155	310	671	671	1,342
Diesel Pumps / Service Station (ITE Land Use Code 944)	52	52	104	39	39	78	168	168	336
Truck Repair (ITE Land Use Code 943)	18	18	36	14	14	28	59	59	118
Total Passenger Cars and Trucks	278	278	556	210	210	420	907	907	1,814
Total CA Legal and STAA Trucks	70	70	140	53	53	106	227	227	454
Total Vehicles	349	349	696	263	263	526	1,134	1,134	2,268

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 6 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for AM Peak Hour Conditions.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work, resulting in 44 vehicle trips (21% of all trips generated).

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project, resulting in 30 vehicle trips (14% of all trips generated).

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project, resulting in 134 vehicle trips (65% of all trips generated).

Table 6: AM Peak Hour Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	5	5	10	3	3	6	14	14	28
Gasoline Pumps / Service Station (ITE Land Use Code 944)	13	13	26	9	9	18	40	40	80
Diesel Pumps / Service Station (ITE Land Use Code 944)	3	3	6	2	2	4	10	10	20
Truck Repair (ITE Land Use Code 943)	1	1	2	1	1	2	3	3	6
Total	22	22	44	15	15	30	67	67	134

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 7 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for PM Peak Hour Conditions.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work, resulting in 56 vehicle trips (20% of all trips generated).

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project, resulting in 40 vehicle trips (14% of all trips generated).

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project, resulting in 184 vehicle trips (66% of all trips generated).

Table 7: PM Peak Hour Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	6	6	12	4	4	8	19	19	38
Gasoline Pumps / Service Station (ITE Land Use Code 944)	17	17	34	12	12	24	54	54	108
Diesel Pumps / Service Station (ITE Land Use Code 944)	4	4	8	3	3	6	14	14	28
Truck Repair (ITE Land Use Code 943)	1	1	2	1	1	2	5	5	10
Total	28	28	56	20	20	40	92	92	184

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

5.2 Project Trip Distribution

Project trips were distributed throughout the study area based on the existing and future transportation system, directional travel patterns entering and exiting driveways serving the project site, and output from the Existing Base Year TFM and Cumulative Year TFM. **Figure 5** presents project trip distribution. It should be noted that California legal and STAA trucks are prohibited from using Golden Valley Parkway, Spartan Road and the I-5 / Lathrop Road interchange. Therefore, California legal and STAA trucks are required to use Manthey Road and the I-5 / Roth Road interchange and the pass-by, diverted and net new trip distribution for project-generated traffic includes this requirement for California legal and STAA trucks. The primary results of the trip distribution analysis are:

- The majority of project-generated traffic are diverted trips to and from I-5 and represent 66% of all trips (with 33% from northbound I-5 and 33% from southbound I-5);
- For net new trips, they represent 20% of all trips (with 10% from Harlan Road south of Roth Road, 9 % from Roth Road east of Harlan Road and 1% from Harlan Road north of Roth Road); and
- The remaining 14% are pass-by trips already on Manthey Road that decide to stop at the proposed project.

Figure 6 displays the traffic volumes under Existing Plus Project conditions for the following study intersections:

1. Manthey Road / Roth Road;
2. Southbound Interstate 5 On/Off-Ramps / Roth Road;
3. Northbound Interstate 5 On/Off-Ramps / Roth Road;
4. Harlan Road / Roth Road;
5. Manthey Road / Project Driveway.

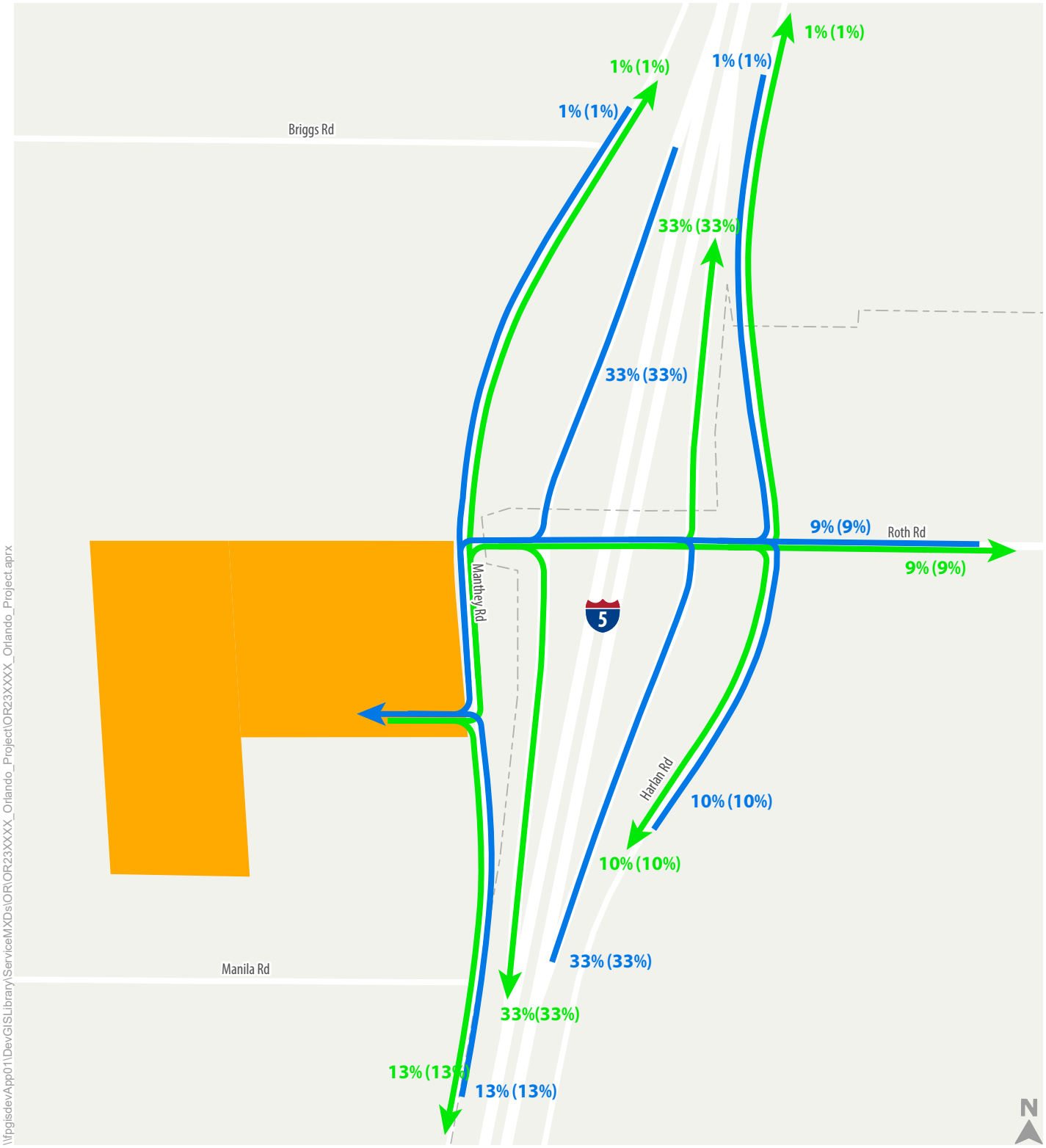


Figure 5

Project Trip Distribution

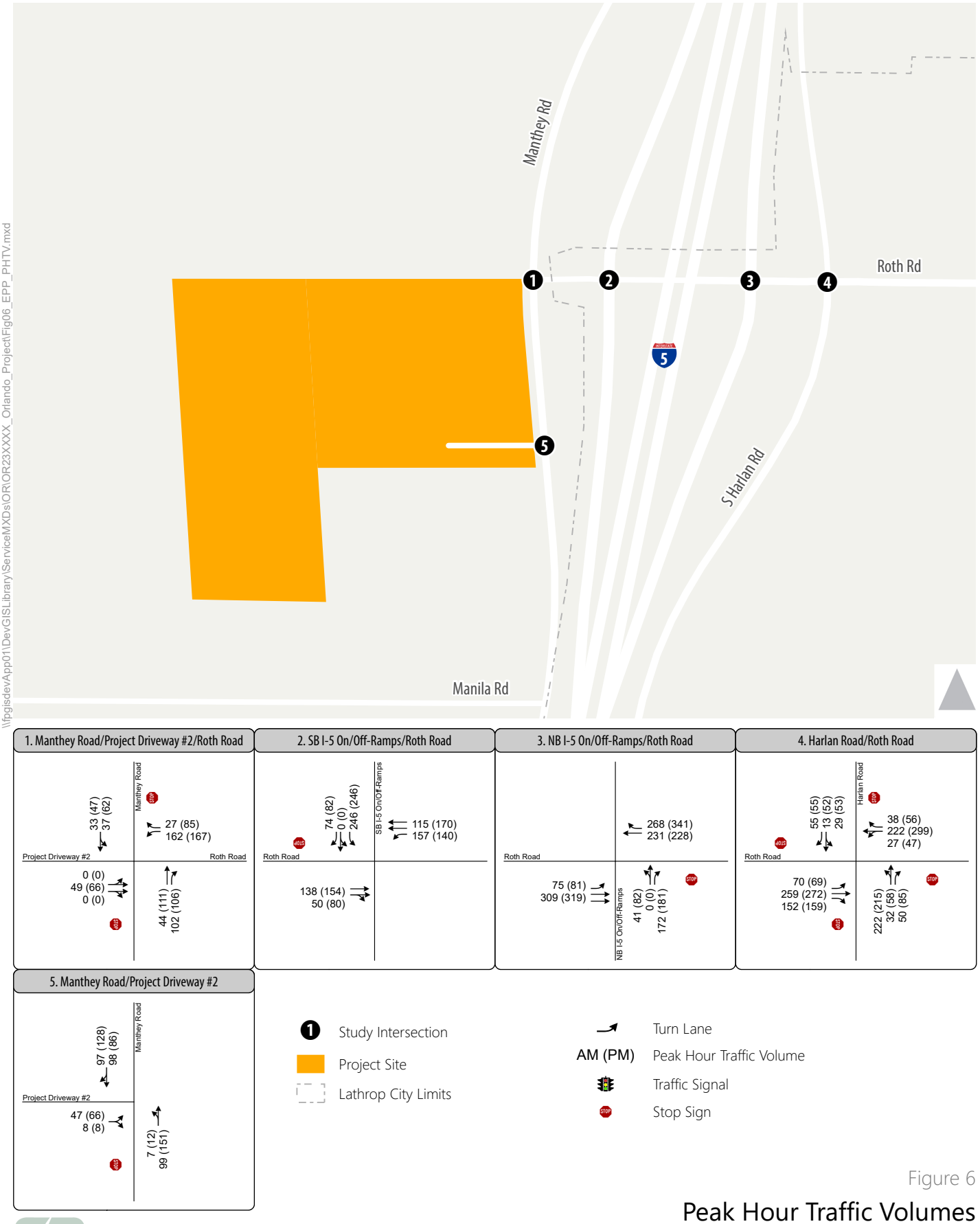


Figure 6

Peak Hour Traffic Volumes and Lane Configurations - Existing Plus Project Conditions

5.3 Existing Plus Project Intersection Operations

Under Near-term conditions, access to the project site would be provided via two (2) full-access driveways on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Act (STAA) trucks. Two outbound (right-turn only) driveways would be provided on the extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal STAA trucks. **Table 8** displays the AM peak hour intersection operations under Existing Plus Project conditions. Technical calculations are displayed in **Appendix B**.

Table 8: Intersection Operations – Existing Plus Project AM Peak Hour Conditions

Intersection	Control Type	Existing Conditions		Existing Plus Project Conditions	
		AM Peak Hour		AM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	4.7 (WB LT) 0.8 (WB RT) 1.8 (Entire)	A A A	6.8 (EB TH) 5.8 (WB LT) 0.8 (WB RT) 3.3 (Entire)	A A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (SB LT) 3.8 (SB RT) 5.6 (Entire)	B A A	14.0 (SB LT) 4.7 (SB RT) 6.0 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	9.8 (NB LT) 5.1 (NB RT) 2.9 (Entire)	A A A	15.0 (NB LT) 5.5 (NB RT) 3.5 (Entire)	B A A
4. Harlan Road / Roth Road	AWSC	10.7	B	11.4	B
5. Manthey Road / Project Driveway #1	SSSC	Intersection does not exist in this scenario		5.3 (EB LT) 3.3 (EB RT) 1.8 (Entire)	A A A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control AWSC= All-Way Stop Control
Source: Fehr & Peers, 2023

Under Existing Plus Project AM Peak Hour Conditions, all three (3) side-street stop controlled intersections would continue to operate at acceptable LOS A or B conditions . The all-way stop controlled Harlan Road / Roth Road intersection would also continue to operate at acceptable LOS B conditions during Existing Plus Project AM Peak Hour Conditions. The new Manthey Road / Project Driveway #1 driveway intersection would also operate at LOS A conditions as passenger cars and trucks enter and exit the project site.

Table 9 displays the PM peak hour intersection operations under Existing Plus Project conditions. Technical calculations are displayed in **Appendix B**.

Table 9: Intersection Operations – Existing Plus Project PM Peak Hour Conditions					
Intersection	**Control Type**	**Existing Conditions**		**Existing Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	6.1 (WB LT) 1.1 (WB RT) 1.8 (Entire)	A A A	9.0 (EB TH) 8.5 (WB LT) 1.1 (WB RT) 4.0 (Entire)	A A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	10.5 (SB LT) 3.8 (SB RT) 5.1 (Entire)	B A A	15.8 (SB LT) 5.4 (SB RT) 6.3 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (NB LT) 12.5 (NB RT) 5.1 (Entire)	B B A	20.0 (NB LT) 8.9 (NB RT) 5.3 (Entire)	C A A
4. Harlan Road / Roth Road	Signal	26.2	C	30.0	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		5.7 (EB LT) 3.7 (EB RT) 2.0 (Entire)	A A A
Notes: **Bold** indicates deficient operations. SSSC = Side-Street Stop Control Source: Fehr & Peers, 2023					

Under Existing Plus Project PM Peak Hour Conditions, all three (3) side-street stop controlled intersections would continue to operate at acceptable LOS A/B/C conditions . The signalized Harlan Road / Roth Road intersection would also continue to operate at acceptable LOS C conditions during Existing Plus Project PM Peak Hour Conditions. The new Manthey Road / Project Driveway #1 driveway intersection would also operate at LOS A conditions as passenger cars and trucks enter and exit the project site. Based on results of the intersection operations analysis, review of the site plan, and adjacent land uses on Manthey Road, the following Conditions of Approval (COA) are recommended.

Traffic COA #1 – The proposed project will coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection.

Traffic COA #2 – The proposed project will coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided.

6. Cumulative Conditions Analysis

This chapter presents the results of intersection operations analysis under Cumulative (Year 2040) conditions. The analysis reflects long-term development in the City of Lathrop and other nearby jurisdictions using the General Plan Three City TFM previously described in Chapters 2 and 3. The Cumulative Year analysis assumes the following improvements:

- Interstate 5 / Roth Road interchange – In the 2022 SJCOG Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) Document, the I-5 at Roth Road interchange (Project SJ11-2004) would be modified to provide operational (traffic signals) and capacity (through lanes and turn pockets) improvements to serve projected traffic volumes from the City of Lathrop, City of Manteca, San Joaquin County, and City of Stockton. The City of Lathrop is coordinating with SJCOG to identify the timeline for construction of the improvements, opening year and funding sources.

- Roth Road Corridor Study – The San Joaquin Council of Governments (SJCOG), in collaboration with San Joaquin County, the City of Lathrop, and the City of Manteca are conducting a study to prioritize system improvements to address critical multimodal travel needs within the greater Roth Road Corridor. The improvement package will accommodate growing truck traffic served by Roth Road, which is a primary route to access Interstate 5 (I-5). This includes the expansion of the Union Pacific Intermodal Facility that will nearly triple daily average truck round trips. The Defense Depot of San Joaquin Sharp Facility and CenterPoint also contribute significant truck traffic. There are several at-grade rail crossings along Roth Road that will experience heavier truck volumes, and have higher rail activity. The purpose of the Study is to identify traffic improvements to the Roth Road Corridor. The Study is currently being drafted and being reviewed by the participating agencies.

- Harlan Road Realignment Project (East of Interstate 5) - The proposed City of Lathrop project will realign Harlan Road 600' east of the current intersection with Roth Road to provide more space between Interstate 5 (I-5) and the intersection of Harlan Road and Roth Road. This realignment will also include a traffic signal at the intersection as well as accommodate future interchange improvements. The Precise Plan will include three (3) travel lanes and a center two-way left turn lane south of Roth Road and two (2) travel lanes with a center striped median north of Roth Road. The existing Harlan Road intersection will be converted to a cul-de-sac on the south side and a dead-end on the north side of Roth Road. Access will be maintained to the existing properties on Harlan Road. The Harlan Road Realignment Project is part of the City's Capital Improvement Plan (CIP) (CIP PS 14-04) and is partially funded via City Impact Fees, including the North Lathrop Transportation Impact fee (NLTIF). The Precise Plan and associated Initial Study / Mitigated Negative Declaration was approved by Lathrop's City Council on March 8, 2021.

- Manthey Road Realignment. The City of Lathrop project will realign Manthey Road west and provide more space between Interstate 5 (I-5) and the intersection of Manthey Road and Roth Road to accommodate future interchange improvements. The Precise Plan has not been adopted and funding is uncertain for this project.

6.1 Cumulative No Project Intersection Operations

Cumulative no project forecasts for this study were developed by subtracting project trips from the "plus project" scenario. As discussed in the previous section, the City of Lathrop is coordinating with SJCOG to identify the timeline for construction of the improvements, opening year and funding sources. Therefore, the I-5 / Roth Road interchange was analyzed as an improved tight diamond interchange with the following intersection control options:

- Side-street stop control for both the NB and SB I-5 ramp terminal intersections;
- All-way stop control for both the NB and SB I-5 ramp terminal intersections; and
- Signal control for both the NB and SB I-5 ramp terminal intersections.

Figure 7 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with side-street stop control for both the NB and SB I-5 ramp terminal intersections. **Table 10** displays the AM and PM peak hour Cumulative No Project intersection operations side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix C**.

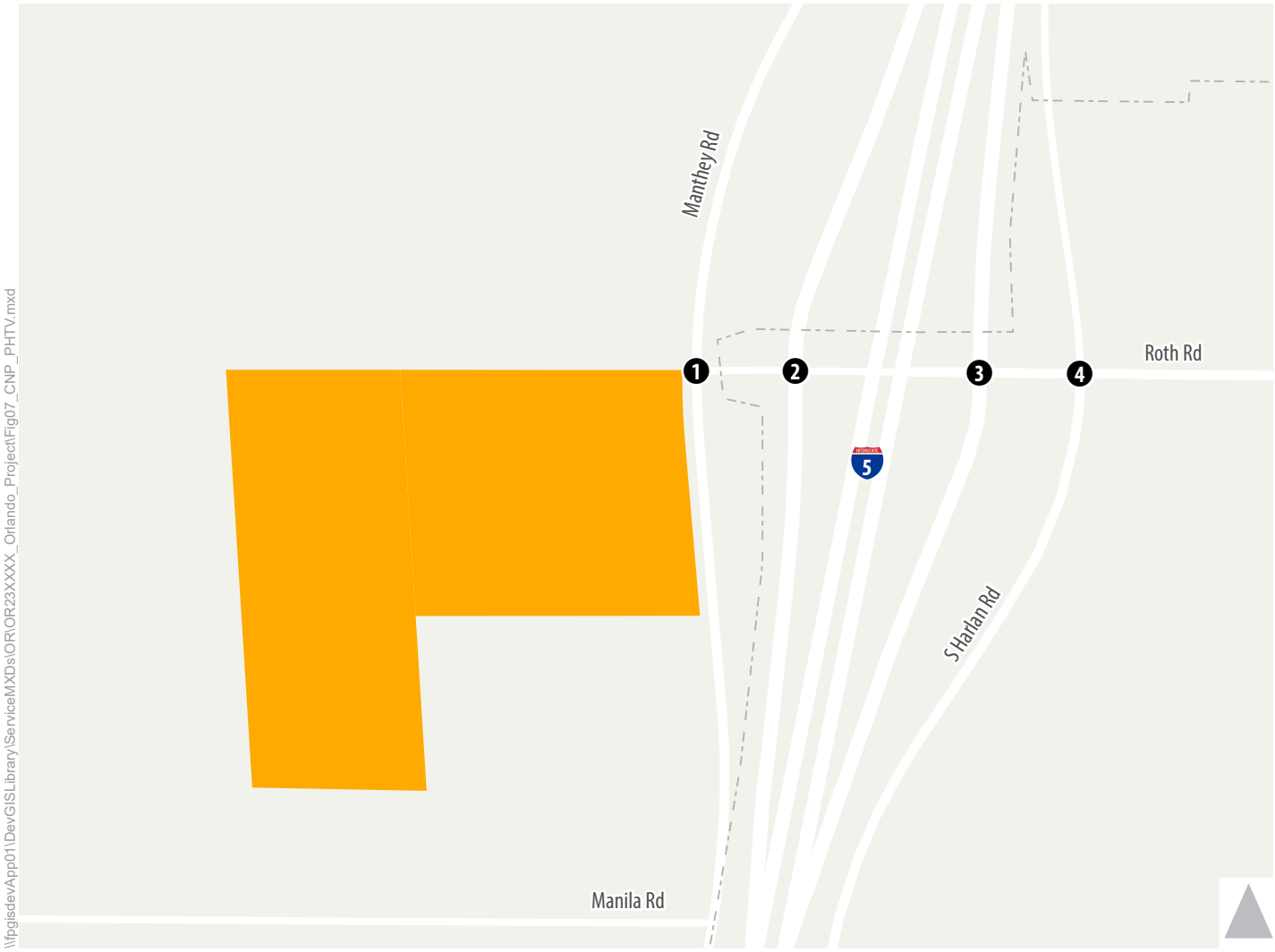
Table 10: Intersection Operations – Cumulative No Project Conditions

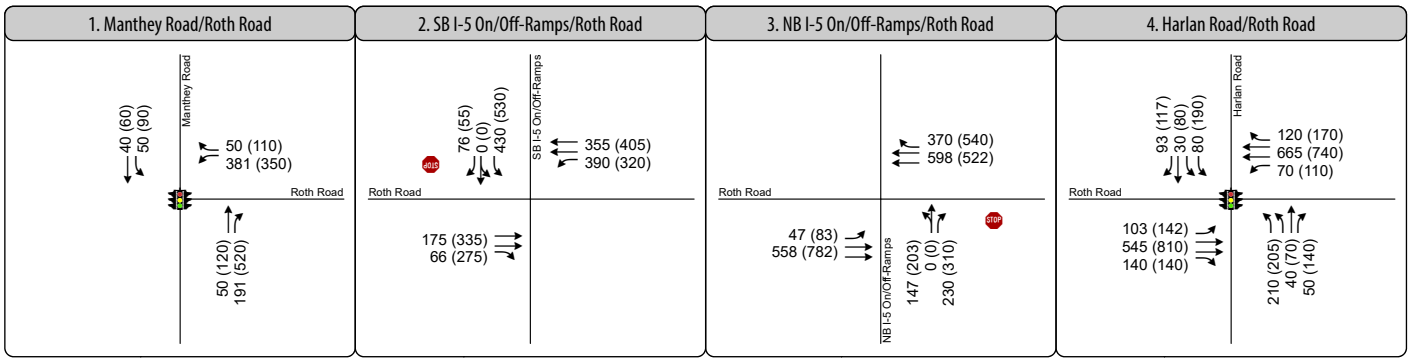
Intersection	Control Type	AM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	13.9	B	16.3	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>350 (SB LT)** **> 120 (SB RT)** **> 120 (Entire)**	**F** **F** **F**	18.0 (EB TH) 10.3 (EB RT) **87.2 (WB LT)** 15.3 (WB TH) 17.8 (SB LT) 11.2 (SB RT) 34.3 (Entire)	C B **F** C C B D
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**47.4 (NB LT)** 7.6 (NB RT) 7.5 (Entire)	**E** A A	10.6 (EB LT) 11.5 (EB TH) **51.5 (WB TH)** 21.9 (WB RT) 10.1 (NB LT) 7.3 (NB RT) 25.0 (Entire)	B B **F** C B A C
4. Harlan Road / Roth Road	Signal	21.9	C	32.5	C

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control
Source: Fehr & Peers, 2023

The primary conclusions of the Cumulative No Project Conditions analysis are:

- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would operate at acceptable LOS B conditions;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the southbound I-5 mainline;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Northbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the northbound I-5 mainline; and
- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would operate at acceptable LOS C conditions.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 7

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With Side-Street Stop Control at Ramp Terminal Intersections

6.2 Cumulative Plus Project Intersection Operations

As shown in Figure 3, under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on the future Roth Road, approximately 650 feet west of the southbound I-5 / Roth Road ramp terminal intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. **Figure 8** displays the intersection turning movements and lane configurations under Cumulative Plus Project conditions with side-street stop control for both the NB and SB I-5 ramp terminal intersections.. **Table 11** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix D.**

Table 11: Intersection Operations – Cumulative No Project and Cumulative Plus Project AM Peak Hour Conditions With Side Street Stop Controlled Interstate 5 Ramps

Intersection	Control Type	Cumulative No Project Conditions		Cumulative Plus Project Conditions	
		AM Peak Hour		AM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	13.9	B	13.4	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>350 (SB LT)** **> 120 (SB RT)** **> 120 (Entire)**	**F** **F** **F**	**>600 (SB LT)** **> 600 (SB RT)** **> 140 (Entire)**	**F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**47.4 (NB LT)** 7.6 (NB RT) 7.5 (Entire)	**E** A A	**> 160 (NB LT)** 16.6 (NB RT) 21.8 (Entire)	**F** C C
4. Harlan Road / Roth Road	Signal	21.9	C	22.0	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		11.9 (WB LT) 4.5 (WB RT) 2.0 (Entire)	B A A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

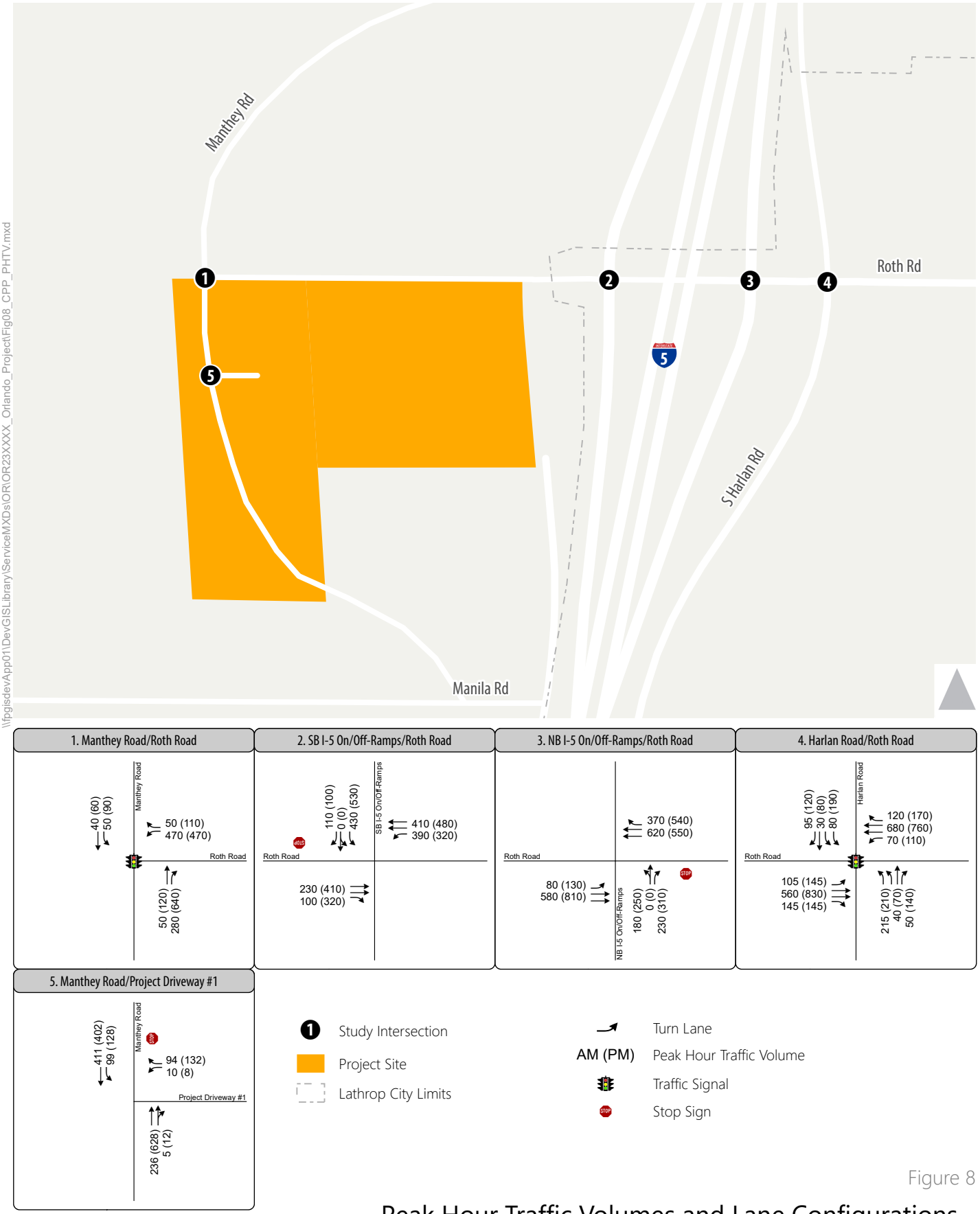


Figure 8

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With Side-Street Stop Control at Ramp Terminal Intersections

Table 12 presents the results of the Cumulative No Project and Cumulative Plus Project PM Peak Hour intersection operations analysis with side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix D**.

Table 12: Intersection Operations – Cumulative No Project and Cumulative Plus Project PM Peak Hour Conditions With Side Street Stop Controlled Interstate 5 Ramps

Intersection	Control Type	Cumulative No Project Conditions		Cumulative Plus Project Conditions	
		PM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	16.6	B	17.0	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>1000 (SB LT)** **> 1000 (SB RT)** **> 330 (Entire)**	**F** **F** **F**	**>2500 (SB LT)** **> 2500 (SB RT)** **> 190 (Entire)**	**F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**> 290 (NB LT)** **50.1 (NB RT)** **42.6 (Entire)**	**F** **F** **E**	**> 600 (NB LT)** **> 160 (NB RT)** **> 90 (Entire)**	**F** **F** **F**
4. Harlan Road / Roth Road	Signal	28.6	C	**65.1**	**E**
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		30.8 (WB LT) 30.7 (WB RT) 8.7 (Entire)	D D A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

The primary conclusion of the Cumulative With Project (With Side Street Stop Controlled I-5 Ramps) Conditions analysis (Tables 11 and 12) are:

- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions with excessive delays and congestion affecting the southbound I-5 mainline;

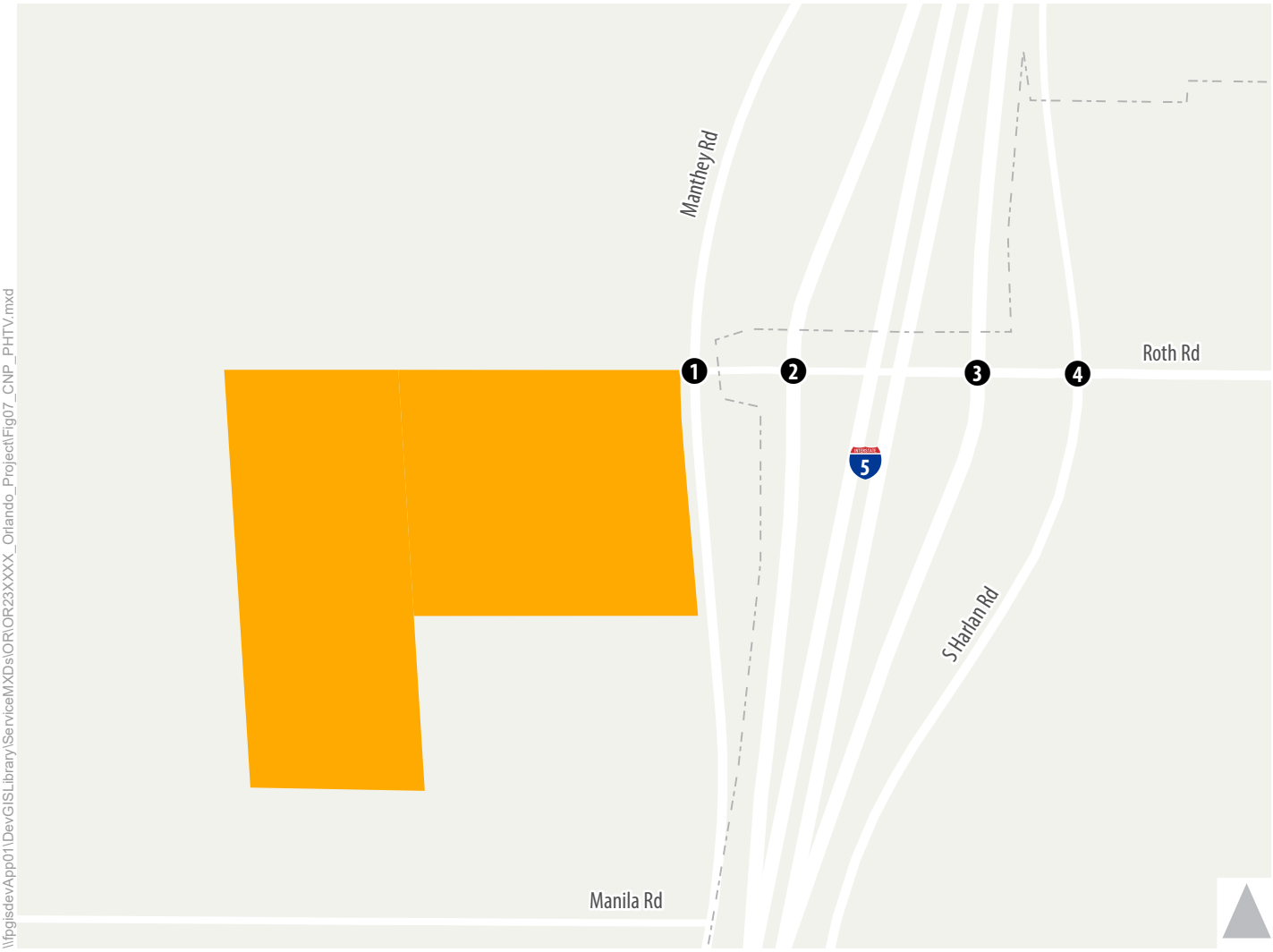
The primary conclusion of the Cumulative With Project (With Side Street Stop Controlled I-5 Ramps) Conditions analysis (Tables 11 and 12) are (continued):

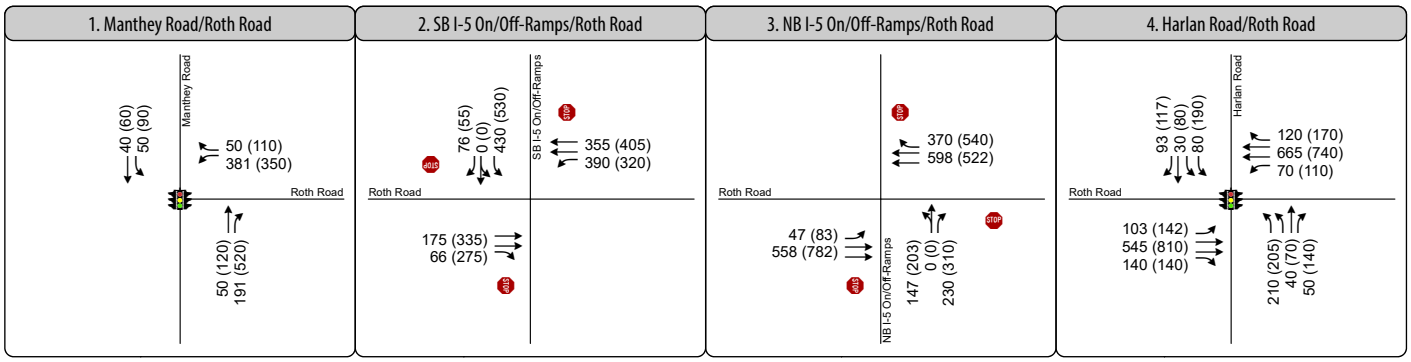
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Northbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the northbound I-5 mainline;
- During AM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- During PM Peak Hour Conditions, as a result of increased congestion at the I-5 / Roth Road interchange, the re-aligned and signalized Harlan Road / Roth Road intersection would degrade from acceptable LOS C to marginal LOS E conditions.

As shown in Tables 11 and 12, with the I-5 / Roth Road ramp terminal intersections operating as side-street stop controlled results in excessive delays and congestion that would negatively affect both northbound and southbound I-5 mainline. Therefore, the following sections include the conversion of the ramp terminal intersection from side-street stop control to all-way stop control to determine the benefits of modifying the intersection control to serve projected Cumulative No Project and Cumulative Plus Project AM and PM peak hour traffic volumes.

Figure 9 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with all-way stop control for both the NB and SB I-5 ramp terminal intersections. **Table 13** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with an all-way-stop controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix E**.

Figure 10 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative With Project conditions with all-way stop control for both the NB and SB I-5 ramp terminal intersections. **Table 14** presents the results of the Cumulative Plus Project PM Peak Hour intersection operations analysis with an all-way-stop controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix E**.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 9

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With All-Way Stop Control at Ramp Terminal Intersections

Table 13: Intersection Operations – Cumulative No Project and Cumulative Plus Project AM Peak Hour Conditions With All Way Stop Controlled Interstate 5 Ramps					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		AM Peak Hour		**AM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	16.3	B	15.8	B
2. SB I-5 On/Off-Ramps / Roth Road	AWSC	18.0 (EB TH) 10.3 (EB RT) **87.2 (WB LT)** 15.3 (WB TH) 17.8 (SB LT) 11.2 (SB RT) 34.3 (Entire)	C B **F** C C B D	22.2 (EB TH) 13.6 (EB RT) **>110 (WB LT)** 16.2 (WB TH) 19.7 (SB LT) 13.7 (SB RT) **38.6 (Entire)**	C B **F** C C B **E**
3. NB I-5 On/Off-Ramps / Roth Road	AWSC	10.6 (EB LT) 11.5 (EB TH) **51.5 (WB TH)** 21.9 (WB RT) 10.1 (NB LT) 7.3 (NB RT) 25.0 (Entire)	B B **F** C B A C	11.4 (EB LT) 12.7 (EB TH) **>80 (WB TH)** 33.6 (WB RT) 12.9 (NB LT) 8.4 (NB RT) **36.6 (Entire)**	B B **F** D B A **E**
4. Harlan Road / Roth Road	Signal	32.5	C	50.6	D
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		11.9 (WB LT) 4.5 (WB RT) 2.0 (Entire)	B A A

Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

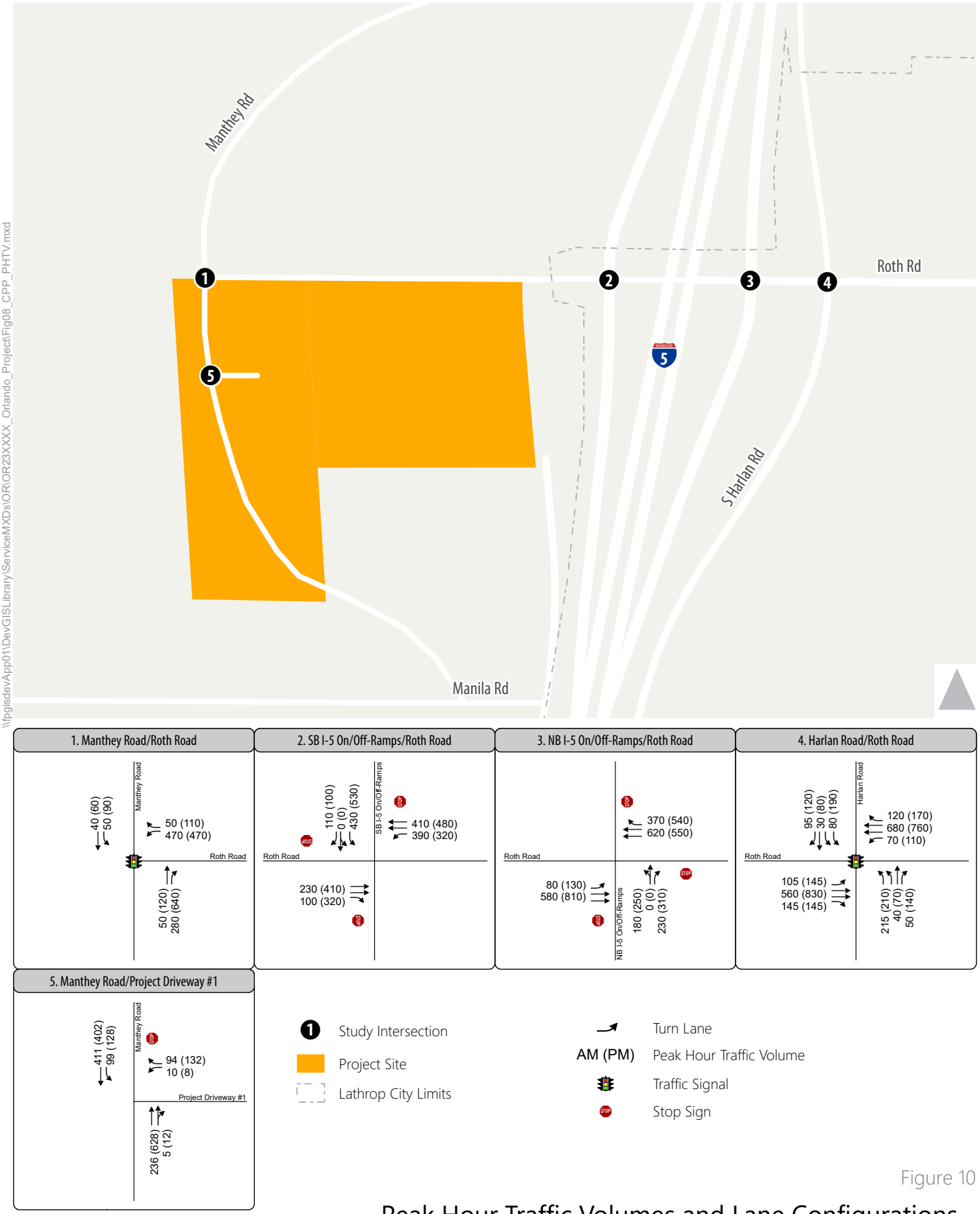


Figure 10

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With All-Way Stop Control at Ramp Terminal Intersections

Table 14: Intersection Operations – Cumulative No Project and Cumulative Plus Project PM Peak Hour Conditions With All Way Stop Controlled Interstate 5 Ramps					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	59.4	E	80.5	F
2. SB I-5 On/Off-Ramps / Roth Road	AWSC	**> 160 (EB TH)** **> 120 (EB RT)** **> 100 (WB LT)** 21.9 (WB TH) 30.1 (SB LT) 20.8 (SB RT) **77.2 (Entire)**	**F** **F** **F** C D C **F**	**> 250 (EB TH)** **> 180 (EB RT)** **> 110 (WB LT)** **68.6 (WB TH)** **91.6 (SB LT)** **82.6 (SB RT)** **> 120 (Entire)**	**F** **F** **F** **F** **F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	AWSC	12.5 (EB LT) 17.5 (EB TH) **70.3 (WB TH)** **65.6 (WB RT)** 16.4 (NB LT) 17.1 (NB RT) **39.3 (Entire)**	B C **F** **F** C C **E**	13.2 (EB LT) 20.4 (EB TH) **> 100 (WB TH)** **97.5 (WB RT)** **93.3 (NB LT)** 33.8 (NB RT) **63.7 (Entire)**	B C **F** **F** **F** D **F**
4. Harlan Road / Roth Road	Signal	**56.2**	**E**	**> 140**	**F**
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		31.0 (WB LT) **> 310 (WB RT)** **> 110 (Entire)**	D **F** **F**

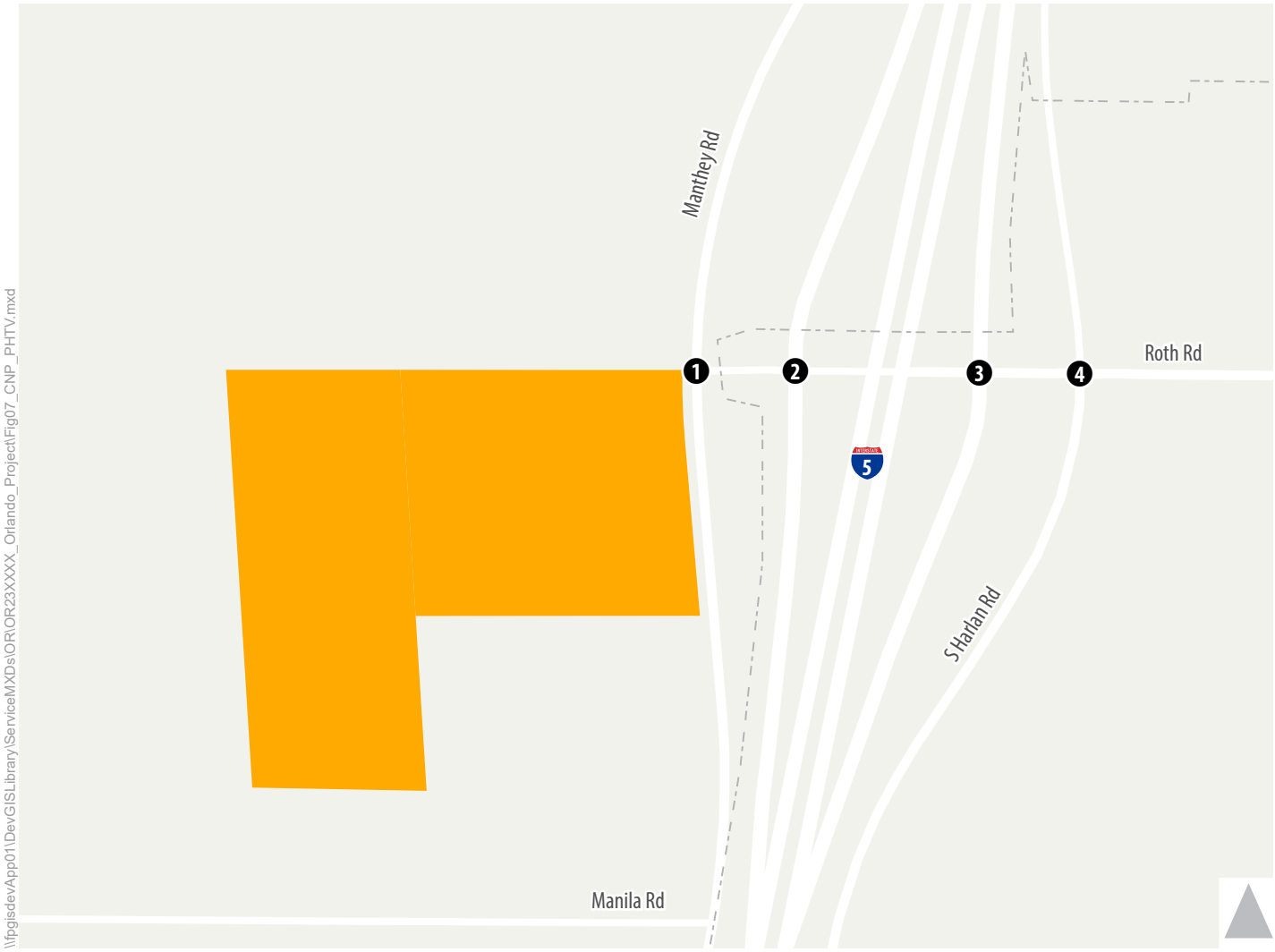
Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

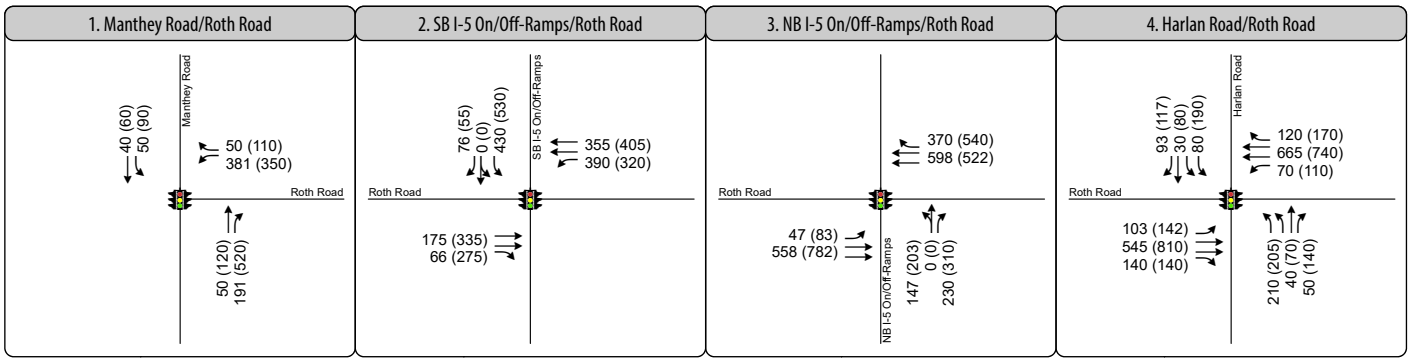
The primary conclusion of the Cumulative With Project Conditions (With All-Way Stop Controlled I-5 Ramps) Conditions analysis (Tables 13 and 14) are:

- During AM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the re-aligned and signalized Manthey Road / Roth Road intersection would degrade from marginal LOS E (No Project) to unacceptable LOS F (With Project) conditions;
- During AM Peak Hour Conditions, the westbound Roth Road left-turn movement at the all-way stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions;
- During PM Peak Hour Conditions, the entire all-way stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions;
- During AM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C/D conditions;
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at marginal LOS E (No Project) and unacceptable LOS F (With Project) conditions;
- During AM Peak Hour Conditions, the newly constructed Manthey Road / Project Driveway intersection is projected to operate at acceptable LOS A/B conditions for vehicles (cars and trucks) exiting the project site; and
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the newly constructed Manthey Road / Project Driveway intersection is projected to operate at unacceptable LOS F conditions for vehicles (cars and trucks) exiting the project site traveling towards the I-5 / Roth Road interchange.

Figure 11 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with signalized control for both the NB and SB I-5 ramp terminal intersections. **Table 15** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with a signalized I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix F**.

Figure 12 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative With Project conditions with signalized control for both the NB and SB I-5 ramp terminal intersections. **Table 16** presents the results of the Cumulative No Project and Cumulative Plus Project PM Peak Hour intersection operations analysis with an improved and signalized I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix F**.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 11

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With Signal Control at Ramp Terminal Intersections

Table 15: Intersection Operations – Cumulative Plus Project AM Peak Hour Conditions With Mitigated and Signalized Interstate 5 Interchange					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		AM Peak Hour		**AM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	11.1	B	11.2	B
2. SB I-5 On/Off-Ramps / Roth Road	Signal	22.2	C	21.5	C
3. NB I-5 On/Off-Ramps / Roth Road	Signal	13.6	B	15.8	B
4. Harlan Road / Roth Road	Signal	21.8	C	22.1	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		12.8 (WB LT) 4.7 (WB RT) 1.9 (Entire)	B A A

Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

The primary conclusion of the Cumulative With Project Conditions (With Signalized I-5 Ramps) Conditions analysis AM Peak Hour Conditions are:

- The re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- The improved and signalized southbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS C conditions;
- The improved and signalized northbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B conditions;
- The re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- The newly constructed Manthey Road / Project Driveway intersection is projected to operate at acceptable LOS A/B conditions for vehicles (cars and trucks) exiting the project site.

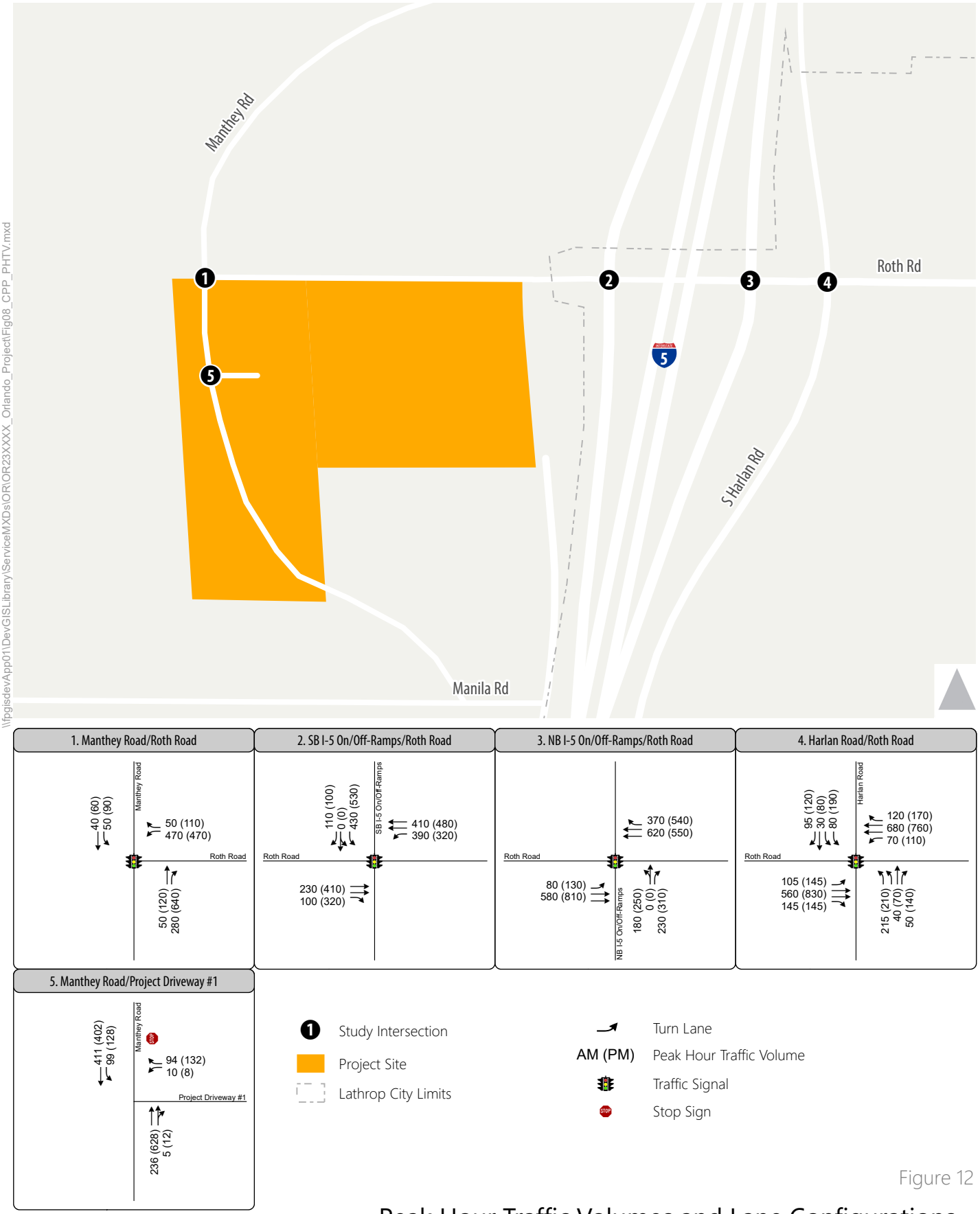


Figure 12

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With Signal Control at Ramp Terminal Intersections

Table 16: Intersection Operations – Cumulative Plus Project PM Peak Hour Conditions With Mitigated and Signalized Interstate 5 Interchange					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	14.7	B	17.0	B
2. SB I-5 On/Off-Ramps / Roth Road	Signal	20.4	C	19.8	B
3. NB I-5 On/Off-Ramps / Roth Road	Signal	16.6	B	18.3	B
4. Harlan Road / Roth Road	Signal	27.5	C	28.4	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		**58.2 (WB LT)** 28.3 (WB RT) 8.2 (Entire)	**E** C A
Notes: **Bold** indicates deficient operations. AWSC = All-Way Stop Control. [1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change. [2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements. Source: Fehr & Peers, 2023					

The primary conclusion of the Cumulative With Project Conditions (With Signalized I-5 Ramps) Conditions analysis PM Peak Hour Conditions are:

- The re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- The improved and signalized southbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B/C conditions;
- The improved and signalized northbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B conditions;
- The re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- The westbound left-turn (LOS E) can be improved by providing a southbound Manthey Road refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

7. Safety Assessment Analysis

This section describes the results of potential safety impacts associated with transportation and circulation that could result from implementation of the proposed Singh Petroleum Investments Project located in the City of Lathrop. It describes the safety-related reviews, investigations, and analysis that was completed for Existing Plus Project and Cumulative Plus Project conditions.

7.1 Planned Traffic Safety Improvements in the Project Area

The following documents and projects in the City of Lathrop, SJCOG, and Caltrans jurisdictions are reviewed for traffic safety improvements:

- **City of Lathrop General Plan – Circulation 3.14**
- **City of Lathrop Capital Improvement Program (CIP)**
- **SJCOG RTP/SCS**

The proposed Project includes an 8-island (16 position) fueling station, an 16,668 square foot retail / convenience store that includes a quality sit-down restaurant (QSR) with a drive-thru lane, an 8-truck fuel island, and a 13,846 square foot truck service / repair facility. Traffic generated by the proposed Project would increase traffic volumes on local roadways, I-5 / Roth Road on-ramps, I-5 / Roth Road off-ramps serving the project study area. Existing and future land use in the vicinity of the project area consists of a mix of warehousing, trucking, food, retail, and service uses. It should be noted that California legal and STAA trucks are prohibited from using Golden Valley Parkway, Spartan Road and the I-5 / Lathrop Road interchange

Traffic generated by the Project would not change the traffic mix in the area and would be compatible with existing and planned facility design. The Project will also support the implementation of City of Lathrop's General Plan and CIP to serve the Vehicle (cars and trucks), Transit, Bicycle and Pedestrian System. These improvement in the vicinity of the proposed project would improve multi-modal safety in the City of Lathrop. The proposed Project does not consist of any improvements or physical changes to the freeway mainline, freeway interchange, or other State Highway System (SHS) facilities. A detailed review of the facility design of the safety improvement projects listed above confirmed that the proposed Project would improve on the non-existent multi-modal facility by providing sidewalks along the project frontage on Roth Road and Manthey Road.

The City of Lathrop Bicycle Transportation Plan established the City's goals and objectives for bicycle travel. The Bicycle Transportation Plan establishes standards for bicycle facilities and identifies planned bicycle network facilities to address the City's bicycle needs. The Circulation Element developed as part of the proposed General Plan contains Policy CIR-2.1 and Implementation Actions CIR-2a and CIR-2g, which support bicycle and pedestrian routes and facilities and creating an active transportation plan supporting the development and funding of bicycle and pedestrian networks.

The City of Lathrop is currently preparing an Active Transportation Plan that will identify pedestrian, bicycle and transit improvements in the vicinity of the proposed Singh Petroleum Investments Project site. Based on the location of the future active transportation facilities, the following COA is recommended:

Traffic COA #3 – The developer shall coordinate with the City to construct sidewalks along the project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The developer shall work with the City to refine the design of the re-aligned Manthey Road at the project driveway to provide the following:

- One southbound through travel lane;
- One 150-foot southbound left-turn lane:
- One northbound through travel lane'
- One northbound shared through / right-turn lane;
- One westbound left-turn lane;
- One westbound right-turn lane; and
- One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

7.2 Freeway Off-Ramp Queueing Analysis

As described in Chapters 5 and 6, intersection operations analyses were completed for the following freeway ramp terminal intersections:

1. Southbound Interstate 5 On/Off-Ramps / Roth Road; and
2. Northbound Interstate 5 On/Off-Ramps / Roth Road.

Results of the intersection operations analysis show that under Existing Plus Project Conditions, both side-street stop-controlled ramp intersections would continue to operate at acceptable LOS A/B conditions (Table 8) during the AM peak hour and acceptable LOS A/B/C conditions (Table 9) during the PM peak hour.

With the improvement and signalization of the I-5 / Roth Road interchange, both ramp intersections would operate at acceptable LOS B/C during both AM and PM peak hours under Cumulative No Project and Cumulative Plus Project conditions.

A freeway off-ramp queueing analysis was completed for both ramp intersections during the AM and PM peak hour. The off-ramp queueing analysis was completed using the Synchro 11 software package as described in Chapter 3, and the 95th percentile queue is reported for all freeway off-ramp movements.

Table 17 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Existing and Existing Plus Project conditions. Technical Calculations are included in **Appendix A and Appendix B** for Existing, and Existing Plus Project Conditions, respectively.

As shown, with the addition of the project traffic, all freeway off-ramp queues can be accommodated within the off-ramp storage, except for the Southbound I-5 off-ramp right-turn movement. The short 25-foot right-turn lane results in minor queuing under both Existing and Existing Plus Project Conditions. It should be noted that under no circumstances does the queue extend back toward the freeway off-ramp gore point on southbound I-5.

Based on the freeway off-ramp queueing analysis, the proposed Project would not result in freeway off-ramp queuing spilling back from the I-5 / Roth Road interchange under Existing Plus Project Conditions.

Table 17: Freeway Off-Ramp Queueing Analysis – Existing and Existing Plus Project Conditions
95th Percentile Queue

Intersection	Move-ment	Storage (ft)	Existing				Existing Plus Project			
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
			Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)
1. SB I-5 Ramps / Roth Road	SB LT	525	123	128	123	113	123	125	123	132
	SB LT/TH	1,520	123	98	123	89	123	101	123	117
	SB RT	25	40	**72**	37	**67**	74	**81**	82	**87**
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	8	28	35	84	21	66	82	100
	NB RT	625	172	101	181	173	172	90	181	131

Notes:
BOLD indicated 95th Percentile Queue Exceeds Storage Length
Source: Fehr & Peers, 2022

Table 18 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Cumulative and Cumulative Plus Project conditions. As shown, with the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Technical Calculations are included in **Appendix C and Appendix F** for Cumulative No Project and Cumulative Plus Project Conditions, respectively.

Based on the freeway off-ramp queueing analysis, the proposed Project Singh Petroleum would not result in freeway off-ramp queuing spilling back from the I-5 / Roth Road interchange under Cumulative Plus Project Conditions. With the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Traffic generated by the proposed Project would remain compatible with the planned traffic safety improvements in the vicinity of the Project.

Table 18: Freeway Off-Ramp Queueing Analysis – Cumulative No Project and Cumulative Plus Project Conditions 95th Percentile Queue										
			Cumulative No Project				Cumulative Plus Project			
Intersection	Move-ment	Storage (ft)	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
			Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)
1. SB I-5 Ramps / Roth Road	SB LT	525	215	247	265	274	215	243	265	274
	SB LT/TH	1,520	215	288	265	310	215	286	265	319
	SB RT	250	76	166	55	159	110	189	100	209
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	147	167	203	232	180	195	250	270
	NB RT	625	230	136	310	202	230	138	310	219
Notes: **BOLD** indicated 95th Percentile Queue Exceeds Storage Length Source: Fehr & Peers, 2022										

It should be noted that the design of the I-5 / Roth Road interchange improvement has not been formalized; however, off-ramp queuing of the future interchange will be studied in detail as part of the Interstate 5 / Roth Road Interchange Improvement Project led by the City of Lathrop, in coordination with Caltrans.

Traffic COA #4 – The developer shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which will be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.

7.3 Site Access Evaluation

Under Existing / Near-term conditions, access to the project site would be provided via two (2) full-access driveway on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal and STAA trucks. Two outbound (right-turn only) driveways would be provided on the proposed extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Administration (STAA) trucks. **Figure 2** displays the existing / near-term project site plan and access driveways.

Under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on Roth Road, approximately 650 feet west of the southbound I-5 / Roth Road ramp terminal intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. **Figure 3** displays the existing / near-term project site plan and access driveways.

Both project driveways were analyzed under the Existing Plus Project and the Cumulative Plus Project conditions. As shown in **Table 4** and **Table 16** both project driveways would operate acceptably as side-street stop controlled intersections, and project traffic would be able to enter and exit project driveways without excessive delay.

It is important that the site design provides adequate throat depth for vehicular traffic. Without this, queueing may extend onto public streets, thereby adversely affecting traffic operations and creating potential safety hazards.

The proposed site plan shows sidewalks being constructed along the project frontage on Roth Road and Manthey Road. A preliminary site plan review indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. However, all project access intersections, internal intersections, and internal roadways should be carefully designed to ensure they can accommodate emergency vehicles. All intersections and street sections should be reviewed by the City of Lathrop and designed to comply with typical City standards.

8. Conclusions

This chapter presents the conclusions of the transportation impact analysis for the proposed Singh Petroleum Investments Project in the City of Lathrop.

8.1 Transportation Impact Analysis

Consistent with SB 743, VMT is used as the primary metric for identifying significant transportation impacts. VMT impact for the proposed Project was analyzed using methodology and threshold identified in the City of Lathrop draft TIA Guidelines.

Under Existing (Baseline) Conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be less-than-significant.

8.2 Intersection Operations Analysis

Under Existing / Near-term conditions, access to the project site would be provided via two (2) full-access driveway on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal and STAA trucks. Two outbound (right-turn only) driveways would be provided on the proposed extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Administration (STAA) trucks.

The results of the intersection operations analysis indicate that with the addition of project-generated traffic, all study intersections would operate acceptably under Existing Plus Project conditions during the AM and PM peak hour.

Under Cumulative No Project and Cumulative Plus Project conditions, with improvements on Roth Road and at the I-5 / Roth Road interchange, all study intersections would operate acceptably at LOS A through D during both AM and PM peak hours.

Recommended Conditions of Approval

The following conditions should be incorporated into the Conditions of Approval for the proposed Project:

Traffic COA #1 – The proposed project will coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection.

Traffic COA #2 – The proposed project will coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided.

Traffic COA #3 – The developer shall coordinate with the City to construct sidewalks along the project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The developer shall work with the City to refine the design of the re-aligned Manthey Road at the project driveway to provide the following:

- One southbound through travel lane;
- One 150-foot southbound left-turn lane:
- One northbound through travel lane'
- One northbound shared through / right-turn lane;
- One westbound left-turn lane;
- One westbound right-turn lane; and
- One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

Traffic COA #4 – The developer shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which will be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.

Appendix A – Existing Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

Appendix B – Existing Plus Project Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

Appendix C – Cumulative Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

Appendix D – Cumulative Plus Project Conditions With Side Street Stop Controlled I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

Appendix E – Cumulative Plus Project Conditions With All Way Stop Controlled I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

Appendix F – Cumulative Plus Project Conditions With Mitigated and Signalized I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

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Appendix 3 – AERMOD Output Files:

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**
**************************************
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** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 12/20/2023
** File: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\Lathrop Singh.ADI
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**
**
**************************************
** AERMOD Control Pathway
**************************************
**
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   AVERTIME 1 PERIOD
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "Lathrop Singh.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
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** DESCRSRC Off-site Mobile (Northbound) (Exit)
** PREFIX
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** Configuration = Separated 2W
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** Vertical Dimension = 6.80
** SZINIT = 3.16
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LOCATION L0000146 VOLUME 651270.893 4191858.771 0.0
LOCATION L0000147 VOLUME 651272.377 4191865.934 0.0
LOCATION L0000148 VOLUME 651273.861 4191873.097 0.0
LOCATION L0000149 VOLUME 651275.345 4191880.260 0.0
LOCATION L0000150 VOLUME 651276.830 4191887.423 0.0
LOCATION L0000151 VOLUME 651278.314 4191894.586 0.0
LOCATION L0000152 VOLUME 651279.798 4191901.749 0.0
LOCATION L0000153 VOLUME 651281.282 4191908.912 0.0
LOCATION L0000154 VOLUME 651282.766 4191916.075 0.0
LOCATION L0000155 VOLUME 651284.251 4191923.238 0.0
LOCATION L0000156 VOLUME 651285.735 4191930.401 0.0
LOCATION L0000157 VOLUME 651287.219 4191937.564 0.0
LOCATION L0000158 VOLUME 651288.703 4191944.727 0.0
LOCATION L0000159 VOLUME 651290.188 4191951.890 0.0
LOCATION L0000160 VOLUME 651291.672 4191959.053 0.0
LOCATION L0000161 VOLUME 651293.156 4191966.216 0.0
LOCATION L0000162 VOLUME 651294.640 4191973.379 0.0
LOCATION L0000163 VOLUME 651296.125 4191980.543 0.0
LOCATION L0000164 VOLUME 651297.609 4191987.706 0.0
LOCATION L0000165 VOLUME 651299.093 4191994.869 0.0
LOCATION L0000166 VOLUME 651300.577 4192002.032 0.0
LOCATION L0000167 VOLUME 651302.061 4192009.195 0.0

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   LOCATION L0000168     VOLUME   651303.546 4192016.358 0.0
   LOCATION L0000169     VOLUME   651305.030 4192023.521 0.0
   LOCATION L0000170     VOLUME   651306.514 4192030.684 0.0
   LOCATION L0000171     VOLUME   651307.998 4192037.847 0.0
   LOCATION L0000172     VOLUME   651309.483 4192045.010 0.0
   LOCATION L0000173     VOLUME   651310.967 4192052.173 0.0
   LOCATION L0000174     VOLUME   651312.451 4192059.336 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------
** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Off-Road Mobile (Southbound) (Entry)
** PREFIX
** Length of Side = 3.66
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 7
** 651286.816, 4192064.667, 0.00, 4.00, 3.40
** 651189.406, 4191597.974, 0.00, 4.00, 3.40
** 651102.901, 4191331.916, 0.00, 4.00, 3.40
** 651063.646, 4191219.968, 0.00, 4.00, 3.40
** 651064.373, 4191187.256, 0.00, 4.00, 3.40
** 650990.226, 4191187.982, 0.00, 4.00, 3.40
** 651006.219, 4191012.791, 0.00, 4.00, 3.40
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   LOCATION L0000175     VOLUME   651286.442 4192062.876 0.0
   LOCATION L0000176     VOLUME   651284.947 4192055.715 0.0
   LOCATION L0000177     VOLUME   651283.453 4192048.555 0.0
   LOCATION L0000178     VOLUME   651281.958 4192041.394 0.0
   LOCATION L0000179     VOLUME   651280.463 4192034.233 0.0
   LOCATION L0000180     VOLUME   651278.969 4192027.072 0.0
   LOCATION L0000181     VOLUME   651277.474 4192019.911 0.0
   LOCATION L0000182     VOLUME   651275.979 4192012.750 0.0
   LOCATION L0000183     VOLUME   651274.485 4192005.589 0.0
   LOCATION L0000184     VOLUME   651272.990 4191998.428 0.0
   LOCATION L0000185     VOLUME   651271.496 4191991.268 0.0
   LOCATION L0000186     VOLUME   651270.001 4191984.107 0.0
   LOCATION L0000187     VOLUME   651268.506 4191976.946 0.0
   LOCATION L0000188     VOLUME   651267.012 4191969.785 0.0
   LOCATION L0000189     VOLUME   651265.517 4191962.624 0.0
   LOCATION L0000190     VOLUME   651264.022 4191955.463 0.0
   LOCATION L0000191     VOLUME   651262.528 4191948.302 0.0
   LOCATION L0000192     VOLUME   651261.033 4191941.141 0.0
   LOCATION L0000193     VOLUME   651259.538 4191933.981 0.0
   LOCATION L0000194     VOLUME   651258.044 4191926.820 0.0
   LOCATION L0000195     VOLUME   651256.549 4191919.659 0.0
   LOCATION L0000196     VOLUME   651255.055 4191912.498 0.0
   LOCATION L0000197     VOLUME   651253.560 4191905.337 0.0
   LOCATION L0000198     VOLUME   651252.065 4191898.176 0.0
   LOCATION L0000199     VOLUME   651250.571 4191891.015 0.0
   LOCATION L0000200     VOLUME   651249.076 4191883.854 0.0
   LOCATION L0000201     VOLUME   651247.581 4191876.693 0.0
   LOCATION L0000202     VOLUME   651246.087 4191869.533 0.0
   LOCATION L0000203     VOLUME   651244.592 4191862.372 0.0
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LOCATION L0000205 VOLUME 651241.603 4191848.050 0.0
LOCATION L0000206 VOLUME 651240.108 4191840.889 0.0
LOCATION L0000207 VOLUME 651238.614 4191833.728 0.0
LOCATION L0000208 VOLUME 651237.119 4191826.567 0.0
LOCATION L0000209 VOLUME 651235.624 4191819.406 0.0
LOCATION L0000210 VOLUME 651234.130 4191812.246 0.0
LOCATION L0000211 VOLUME 651232.635 4191805.085 0.0
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LOCATION L0000213 VOLUME 651229.646 4191790.763 0.0
LOCATION L0000214 VOLUME 651228.151 4191783.602 0.0
LOCATION L0000215 VOLUME 651226.656 4191776.441 0.0
LOCATION L0000216 VOLUME 651225.162 4191769.280 0.0
LOCATION L0000217 VOLUME 651223.667 4191762.119 0.0
LOCATION L0000218 VOLUME 651222.173 4191754.959 0.0
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LOCATION L0000220 VOLUME 651219.183 4191740.637 0.0
LOCATION L0000221 VOLUME 651217.689 4191733.476 0.0
LOCATION L0000222 VOLUME 651216.194 4191726.315 0.0
LOCATION L0000223 VOLUME 651214.699 4191719.154 0.0
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LOCATION L0000225 VOLUME 651211.710 4191704.832 0.0
LOCATION L0000226 VOLUME 651210.215 4191697.671 0.0
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LOCATION L0000228 VOLUME 651207.226 4191683.350 0.0
LOCATION L0000229 VOLUME 651205.731 4191676.189 0.0
LOCATION L0000230 VOLUME 651204.237 4191669.028 0.0
LOCATION L0000231 VOLUME 651202.742 4191661.867 0.0
LOCATION L0000232 VOLUME 651201.248 4191654.706 0.0
LOCATION L0000233 VOLUME 651199.753 4191647.545 0.0
LOCATION L0000234 VOLUME 651198.258 4191640.384 0.0
LOCATION L0000235 VOLUME 651196.764 4191633.224 0.0
LOCATION L0000236 VOLUME 651195.269 4191626.063 0.0
LOCATION L0000237 VOLUME 651193.774 4191618.902 0.0
LOCATION L0000238 VOLUME 651192.280 4191611.741 0.0
LOCATION L0000239 VOLUME 651190.785 4191604.580 0.0
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LOCATION L0000241 VOLUME 651186.969 4191590.478 0.0
LOCATION L0000242 VOLUME 651184.707 4191583.522 0.0
LOCATION L0000243 VOLUME 651182.445 4191576.565 0.0
LOCATION L0000244 VOLUME 651180.183 4191569.608 0.0
LOCATION L0000245 VOLUME 651177.922 4191562.651 0.0
LOCATION L0000246 VOLUME 651175.660 4191555.695 0.0
LOCATION L0000247 VOLUME 651173.398 4191548.738 0.0
LOCATION L0000248 VOLUME 651171.136 4191541.781 0.0
LOCATION L0000249 VOLUME 651168.874 4191534.824 0.0
LOCATION L0000250 VOLUME 651166.612 4191527.868 0.0
LOCATION L0000251 VOLUME 651164.350 4191520.911 0.0
LOCATION L0000252 VOLUME 651162.088 4191513.954 0.0
LOCATION L0000253 VOLUME 651159.826 4191506.998 0.0
LOCATION L0000254 VOLUME 651157.565 4191500.041 0.0
LOCATION L0000255 VOLUME 651155.303 4191493.084 0.0
LOCATION L0000256 VOLUME 651153.041 4191486.127 0.0
LOCATION L0000257 VOLUME 651150.779 4191479.171 0.0
LOCATION L0000258 VOLUME 651148.517 4191472.214 0.0
LOCATION L0000259 VOLUME 651146.255 4191465.257 0.0

LOCATION L0000260 VOLUME 651143.993 4191458.300 0.0
LOCATION L0000261 VOLUME 651141.731 4191451.344 0.0
LOCATION L0000262 VOLUME 651139.470 4191444.387 0.0
LOCATION L0000263 VOLUME 651137.208 4191437.430 0.0
LOCATION L0000264 VOLUME 651134.946 4191430.474 0.0
LOCATION L0000265 VOLUME 651132.684 4191423.517 0.0
LOCATION L0000266 VOLUME 651130.422 4191416.560 0.0
LOCATION L0000267 VOLUME 651128.160 4191409.603 0.0
LOCATION L0000268 VOLUME 651125.898 4191402.647 0.0
LOCATION L0000269 VOLUME 651123.636 4191395.690 0.0
LOCATION L0000270 VOLUME 651121.374 4191388.733 0.0
LOCATION L0000271 VOLUME 651119.113 4191381.776 0.0
LOCATION L0000272 VOLUME 651116.851 4191374.820 0.0
LOCATION L0000273 VOLUME 651114.589 4191367.863 0.0
LOCATION L0000274 VOLUME 651112.327 4191360.906 0.0
LOCATION L0000275 VOLUME 651110.065 4191353.950 0.0
LOCATION L0000276 VOLUME 651107.803 4191346.993 0.0
LOCATION L0000277 VOLUME 651105.541 4191340.036 0.0
LOCATION L0000278 VOLUME 651103.279 4191333.079 0.0
LOCATION L0000279 VOLUME 651100.885 4191326.167 0.0
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LOCATION L0000281 VOLUME 651096.044 4191312.361 0.0
LOCATION L0000282 VOLUME 651093.624 4191305.458 0.0
LOCATION L0000283 VOLUME 651091.203 4191298.555 0.0
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LOCATION L0000289 VOLUME 651076.680 4191257.136 0.0
LOCATION L0000290 VOLUME 651074.259 4191250.233 0.0
LOCATION L0000291 VOLUME 651071.838 4191243.330 0.0
LOCATION L0000292 VOLUME 651069.418 4191236.427 0.0
LOCATION L0000293 VOLUME 651066.997 4191229.524 0.0
LOCATION L0000294 VOLUME 651064.577 4191222.621 0.0
LOCATION L0000295 VOLUME 651063.747 4191215.465 0.0
LOCATION L0000296 VOLUME 651063.909 4191208.152 0.0
LOCATION L0000297 VOLUME 651064.072 4191200.838 0.0
LOCATION L0000298 VOLUME 651064.234 4191193.525 0.0
LOCATION L0000299 VOLUME 651063.329 4191187.266 0.0
LOCATION L0000300 VOLUME 651056.014 4191187.337 0.0
LOCATION L0000301 VOLUME 651048.699 4191187.409 0.0
LOCATION L0000302 VOLUME 651041.384 4191187.481 0.0
LOCATION L0000303 VOLUME 651034.070 4191187.553 0.0
LOCATION L0000304 VOLUME 651026.755 4191187.624 0.0
LOCATION L0000305 VOLUME 651019.440 4191187.696 0.0
LOCATION L0000306 VOLUME 651012.125 4191187.768 0.0
LOCATION L0000307 VOLUME 651004.810 4191187.839 0.0
LOCATION L0000308 VOLUME 650997.495 4191187.911 0.0
LOCATION L0000309 VOLUME 650990.230 4191187.937 0.0
LOCATION L0000310 VOLUME 650990.895 4191180.652 0.0
LOCATION L0000311 VOLUME 650991.560 4191173.367 0.0
LOCATION L0000312 VOLUME 650992.225 4191166.082 0.0
LOCATION L0000313 VOLUME 650992.890 4191158.798 0.0
LOCATION L0000314 VOLUME 650993.555 4191151.513 0.0
LOCATION L0000315 VOLUME 650994.220 4191144.228 0.0

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   LOCATION L0000316     VOLUME   650994.885 4191136.943 0.0
   LOCATION L0000317     VOLUME   650995.550 4191129.658 0.0
   LOCATION L0000318     VOLUME   650996.215 4191122.373 0.0
   LOCATION L0000319     VOLUME   650996.880 4191115.088 0.0
   LOCATION L0000320     VOLUME   650997.545 4191107.803 0.0
   LOCATION L0000321     VOLUME   650998.210 4191100.518 0.0
   LOCATION L0000322     VOLUME   650998.875 4191093.233 0.0
   LOCATION L0000323     VOLUME   650999.540 4191085.948 0.0
   LOCATION L0000324     VOLUME   651000.205 4191078.664 0.0
   LOCATION L0000325     VOLUME   651000.870 4191071.379 0.0
   LOCATION L0000326     VOLUME   651001.535 4191064.094 0.0
   LOCATION L0000327     VOLUME   651002.200 4191056.809 0.0
   LOCATION L0000328     VOLUME   651002.865 4191049.524 0.0
   LOCATION L0000329     VOLUME   651003.530 4191042.239 0.0
   LOCATION L0000330     VOLUME   651004.195 4191034.954 0.0
   LOCATION L0000331     VOLUME   651004.860 4191027.669 0.0
   LOCATION L0000332     VOLUME   651005.525 4191020.384 0.0
   LOCATION L0000333     VOLUME   651006.190 4191013.099 0.0
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Off-site Mobile (Northbound) (Entrance)
** PREFIX
** Length of Side = 3.66
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 7
** 650953.879, 4190069.229, 0.00, 4.00, 3.40
** 651074.550, 4190774.356, 0.00, 4.00, 3.40
** 651139.248, 4190976.444, 0.00, 4.00, 3.40
** 651195.222, 4191127.647, 0.00, 4.00, 3.40
** 651203.218, 4191192.344, 0.00, 4.00, 3.40
** 650990.953, 4191187.256, 0.00, 4.00, 3.40
** 651006.219, 4191011.337, 0.00, 4.00, 3.40
** ----------------------------------------------------------------------
   LOCATION L0000334     VOLUME   650954.188 4190071.031 0.0
   LOCATION L0000335     VOLUME   650955.422 4190078.242 0.0
   LOCATION L0000336     VOLUME   650956.656 4190085.452 0.0
   LOCATION L0000337     VOLUME   650957.890 4190092.663 0.0
   LOCATION L0000338     VOLUME   650959.123 4190099.873 0.0
   LOCATION L0000339     VOLUME   650960.357 4190107.083 0.0
   LOCATION L0000340     VOLUME   650961.591 4190114.294 0.0
   LOCATION L0000341     VOLUME   650962.825 4190121.504 0.0
   LOCATION L0000342     VOLUME   650964.059 4190128.714 0.0
   LOCATION L0000343     VOLUME   650965.293 4190135.925 0.0
   LOCATION L0000344     VOLUME   650966.527 4190143.135 0.0
   LOCATION L0000345     VOLUME   650967.761 4190150.346 0.0
   LOCATION L0000346     VOLUME   650968.995 4190157.556 0.0
   LOCATION L0000347     VOLUME   650970.229 4190164.766 0.0
   LOCATION L0000348     VOLUME   650971.463 4190171.977 0.0
   LOCATION L0000349     VOLUME   650972.697 4190179.187 0.0
   LOCATION L0000350     VOLUME   650973.931 4190186.397 0.0
   LOCATION L0000351     VOLUME   650975.165 4190193.608 0.0
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LOCATION L0000356 VOLUME 650981.334 4190229.660 0.0
LOCATION L0000357 VOLUME 650982.568 4190236.870 0.0
LOCATION L0000358 VOLUME 650983.802 4190244.080 0.0
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LOCATION L0000451 VOLUME 651117.947 4190909.908 0.0
LOCATION L0000452 VOLUME 651120.177 4190916.875 0.0
LOCATION L0000453 VOLUME 651122.407 4190923.842 0.0
LOCATION L0000454 VOLUME 651124.638 4190930.809 0.0
LOCATION L0000455 VOLUME 651126.868 4190937.776 0.0
LOCATION L0000456 VOLUME 651129.099 4190944.742 0.0
LOCATION L0000457 VOLUME 651131.329 4190951.709 0.0
LOCATION L0000458 VOLUME 651133.559 4190958.676 0.0
LOCATION L0000459 VOLUME 651135.790 4190965.643 0.0
LOCATION L0000460 VOLUME 651138.020 4190972.610 0.0
LOCATION L0000461 VOLUME 651140.390 4190979.529 0.0
LOCATION L0000462 VOLUME 651142.929 4190986.389 0.0
LOCATION L0000463 VOLUME 651145.469 4190993.249 0.0

LOCATION L0000464 VOLUME 651148.008 4191000.109 0.0
LOCATION L0000465 VOLUME 651150.548 4191006.970 0.0
LOCATION L0000466 VOLUME 651153.088 4191013.830 0.0
LOCATION L0000467 VOLUME 651155.627 4191020.690 0.0
LOCATION L0000468 VOLUME 651158.167 4191027.550 0.0
LOCATION L0000469 VOLUME 651160.706 4191034.411 0.0
LOCATION L0000470 VOLUME 651163.246 4191041.271 0.0
LOCATION L0000471 VOLUME 651165.786 4191048.131 0.0
LOCATION L0000472 VOLUME 651168.325 4191054.991 0.0
LOCATION L0000473 VOLUME 651170.865 4191061.851 0.0
LOCATION L0000474 VOLUME 651173.404 4191068.712 0.0
LOCATION L0000475 VOLUME 651175.944 4191075.572 0.0
LOCATION L0000476 VOLUME 651178.484 4191082.432 0.0
LOCATION L0000477 VOLUME 651181.023 4191089.292 0.0
LOCATION L0000478 VOLUME 651183.563 4191096.153 0.0
LOCATION L0000479 VOLUME 651186.102 4191103.013 0.0
LOCATION L0000480 VOLUME 651188.642 4191109.873 0.0
LOCATION L0000481 VOLUME 651191.182 4191116.733 0.0
LOCATION L0000482 VOLUME 651193.721 4191123.593 0.0
LOCATION L0000483 VOLUME 651195.589 4191130.617 0.0
LOCATION L0000484 VOLUME 651196.486 4191137.877 0.0
LOCATION L0000485 VOLUME 651197.383 4191145.137 0.0
LOCATION L0000486 VOLUME 651198.281 4191152.397 0.0
LOCATION L0000487 VOLUME 651199.178 4191159.657 0.0
LOCATION L0000488 VOLUME 651200.075 4191166.917 0.0
LOCATION L0000489 VOLUME 651200.973 4191174.177 0.0
LOCATION L0000490 VOLUME 651201.870 4191181.437 0.0
LOCATION L0000491 VOLUME 651202.767 4191188.697 0.0
LOCATION L0000492 VOLUME 651199.579 4191192.257 0.0
LOCATION L0000493 VOLUME 651192.266 4191192.082 0.0
LOCATION L0000494 VOLUME 651184.953 4191191.906 0.0
LOCATION L0000495 VOLUME 651177.640 4191191.731 0.0
LOCATION L0000496 VOLUME 651170.326 4191191.556 0.0
LOCATION L0000497 VOLUME 651163.013 4191191.380 0.0
LOCATION L0000498 VOLUME 651155.700 4191191.205 0.0
LOCATION L0000499 VOLUME 651148.387 4191191.030 0.0
LOCATION L0000500 VOLUME 651141.074 4191190.854 0.0
LOCATION L0000501 VOLUME 651133.761 4191190.679 0.0
LOCATION L0000502 VOLUME 651126.448 4191190.504 0.0
LOCATION L0000503 VOLUME 651119.135 4191190.328 0.0
LOCATION L0000504 VOLUME 651111.822 4191190.153 0.0
LOCATION L0000505 VOLUME 651104.509 4191189.978 0.0
LOCATION L0000506 VOLUME 651097.195 4191189.802 0.0
LOCATION L0000507 VOLUME 651089.882 4191189.627 0.0
LOCATION L0000508 VOLUME 651082.569 4191189.452 0.0
LOCATION L0000509 VOLUME 651075.256 4191189.276 0.0
LOCATION L0000510 VOLUME 651067.943 4191189.101 0.0
LOCATION L0000511 VOLUME 651060.630 4191188.926 0.0
LOCATION L0000512 VOLUME 651053.317 4191188.751 0.0
LOCATION L0000513 VOLUME 651046.004 4191188.575 0.0
LOCATION L0000514 VOLUME 651038.691 4191188.400 0.0
LOCATION L0000515 VOLUME 651031.378 4191188.225 0.0
LOCATION L0000516 VOLUME 651024.064 4191188.049 0.0
LOCATION L0000517 VOLUME 651016.751 4191187.874 0.0
LOCATION L0000518 VOLUME 651009.438 4191187.699 0.0
LOCATION L0000519 VOLUME 651002.125 4191187.523 0.0

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  LOCATION L0000520     VOLUME   650994.812 4191187.348 0.0
  LOCATION L0000521     VOLUME   650991.252 4191183.814 0.0
  LOCATION L0000522     VOLUME   650991.884 4191176.526 0.0
  LOCATION L0000523     VOLUME   650992.516 4191169.238 0.0
  LOCATION L0000524     VOLUME   650993.149 4191161.950 0.0
  LOCATION L0000525     VOLUME   650993.781 4191154.662 0.0
  LOCATION L0000526     VOLUME   650994.414 4191147.374 0.0
  LOCATION L0000527     VOLUME   650995.046 4191140.087 0.0
  LOCATION L0000528     VOLUME   650995.678 4191132.799 0.0
  LOCATION L0000529     VOLUME   650996.311 4191125.511 0.0
  LOCATION L0000530     VOLUME   650996.943 4191118.223 0.0
  LOCATION L0000531     VOLUME   650997.576 4191110.935 0.0
  LOCATION L0000532     VOLUME   650998.208 4191103.648 0.0
  LOCATION L0000533     VOLUME   650998.841 4191096.360 0.0
  LOCATION L0000534     VOLUME   650999.473 4191089.072 0.0
  LOCATION L0000535     VOLUME   651000.105 4191081.784 0.0
  LOCATION L0000536     VOLUME   651000.738 4191074.496 0.0
  LOCATION L0000537     VOLUME   651001.370 4191067.209 0.0
  LOCATION L0000538     VOLUME   651002.003 4191059.921 0.0
  LOCATION L0000539     VOLUME   651002.635 4191052.633 0.0
  LOCATION L0000540     VOLUME   651003.267 4191045.345 0.0
  LOCATION L0000541     VOLUME   651003.900 4191038.057 0.0
  LOCATION L0000542     VOLUME   651004.532 4191030.770 0.0
  LOCATION L0000543     VOLUME   651005.165 4191023.482 0.0
  LOCATION L0000544     VOLUME   651005.797 4191016.194 0.0
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off-site Mobile (Southbound) (Exit)
** PREFIX
** Length of Side = 3.66
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 6
** 651007.346, 4191015.575, 0.00, 4.00, 3.40
** 650988.229, 4191175.555, 0.00, 4.00, 3.40
** 651059.667, 4191175.555, 0.00, 4.00, 3.40
** 651065.704, 4191086.007, 0.00, 4.00, 3.40
** 651033.506, 4190733.849, 0.00, 4.00, 3.40
** 650919.810, 4190068.774, 0.00, 4.00, 3.40
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  LOCATION L0000545     VOLUME   651007.129 4191017.391 0.0
  LOCATION L0000546     VOLUME   651006.261 4191024.654 0.0
  LOCATION L0000547     VOLUME   651005.393 4191031.918 0.0
  LOCATION L0000548     VOLUME   651004.525 4191039.181 0.0
  LOCATION L0000549     VOLUME   651003.657 4191046.445 0.0
  LOCATION L0000550     VOLUME   651002.789 4191053.709 0.0
  LOCATION L0000551     VOLUME   651001.921 4191060.972 0.0
  LOCATION L0000552     VOLUME   651001.053 4191068.236 0.0
  LOCATION L0000553     VOLUME   651000.185 4191075.499 0.0
  LOCATION L0000554     VOLUME   650999.317 4191082.763 0.0
  LOCATION L0000555     VOLUME   650998.449 4191090.026 0.0
  LOCATION L0000556     VOLUME   650997.581 4191097.290 0.0
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LOCATION L0000562 VOLUME 650992.374 4191140.871 0.0
LOCATION L0000563 VOLUME 650991.506 4191148.134 0.0
LOCATION L0000564 VOLUME 650990.638 4191155.398 0.0
LOCATION L0000565 VOLUME 650989.770 4191162.661 0.0
LOCATION L0000566 VOLUME 650988.902 4191169.925 0.0
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LOCATION L0000569 VOLUME 651004.504 4191175.555 0.0
LOCATION L0000570 VOLUME 651011.819 4191175.555 0.0
LOCATION L0000571 VOLUME 651019.134 4191175.555 0.0
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LOCATION L0000576 VOLUME 651055.710 4191175.555 0.0
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LOCATION L0000578 VOLUME 651060.385 4191164.905 0.0
LOCATION L0000579 VOLUME 651060.877 4191157.606 0.0
LOCATION L0000580 VOLUME 651061.369 4191150.308 0.0
LOCATION L0000581 VOLUME 651061.861 4191143.009 0.0
LOCATION L0000582 VOLUME 651062.353 4191135.711 0.0
LOCATION L0000583 VOLUME 651062.845 4191128.412 0.0
LOCATION L0000584 VOLUME 651063.337 4191121.113 0.0
LOCATION L0000585 VOLUME 651063.829 4191113.815 0.0
LOCATION L0000586 VOLUME 651064.321 4191106.516 0.0
LOCATION L0000587 VOLUME 651064.813 4191099.217 0.0
LOCATION L0000588 VOLUME 651065.305 4191091.919 0.0
LOCATION L0000589 VOLUME 651065.577 4191084.623 0.0
LOCATION L0000590 VOLUME 651064.911 4191077.338 0.0
LOCATION L0000591 VOLUME 651064.245 4191070.053 0.0
LOCATION L0000592 VOLUME 651063.579 4191062.768 0.0
LOCATION L0000593 VOLUME 651062.913 4191055.483 0.0
LOCATION L0000594 VOLUME 651062.247 4191048.199 0.0
LOCATION L0000595 VOLUME 651061.581 4191040.914 0.0
LOCATION L0000596 VOLUME 651060.915 4191033.629 0.0
LOCATION L0000597 VOLUME 651060.249 4191026.344 0.0
LOCATION L0000598 VOLUME 651059.583 4191019.059 0.0
LOCATION L0000599 VOLUME 651058.917 4191011.775 0.0
LOCATION L0000600 VOLUME 651058.251 4191004.490 0.0
LOCATION L0000601 VOLUME 651057.585 4190997.205 0.0
LOCATION L0000602 VOLUME 651056.918 4190989.920 0.0
LOCATION L0000603 VOLUME 651056.252 4190982.635 0.0
LOCATION L0000604 VOLUME 651055.586 4190975.350 0.0
LOCATION L0000605 VOLUME 651054.920 4190968.066 0.0
LOCATION L0000606 VOLUME 651054.254 4190960.781 0.0
LOCATION L0000607 VOLUME 651053.588 4190953.496 0.0
LOCATION L0000608 VOLUME 651052.922 4190946.211 0.0
LOCATION L0000609 VOLUME 651052.256 4190938.926 0.0
LOCATION L0000610 VOLUME 651051.590 4190931.642 0.0
LOCATION L0000611 VOLUME 651050.924 4190924.357 0.0
LOCATION L0000612 VOLUME 651050.258 4190917.072 0.0

LOCATION L0000613 VOLUME 651049.592 4190909.787 0.0
LOCATION L0000614 VOLUME 651048.926 4190902.502 0.0
LOCATION L0000615 VOLUME 651048.260 4190895.218 0.0
LOCATION L0000616 VOLUME 651047.594 4190887.933 0.0
LOCATION L0000617 VOLUME 651046.928 4190880.648 0.0
LOCATION L0000618 VOLUME 651046.262 4190873.363 0.0
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LOCATION L0000624 VOLUME 651042.266 4190829.654 0.0
LOCATION L0000625 VOLUME 651041.600 4190822.369 0.0
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LOCATION L0000628 VOLUME 651039.601 4190800.515 0.0
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LOCATION L0000631 VOLUME 651037.603 4190778.660 0.0
LOCATION L0000632 VOLUME 651036.937 4190771.376 0.0
LOCATION L0000633 VOLUME 651036.271 4190764.091 0.0
LOCATION L0000634 VOLUME 651035.605 4190756.806 0.0
LOCATION L0000635 VOLUME 651034.939 4190749.521 0.0
LOCATION L0000636 VOLUME 651034.273 4190742.236 0.0
LOCATION L0000637 VOLUME 651033.607 4190734.952 0.0
LOCATION L0000638 VOLUME 651032.460 4190727.730 0.0
LOCATION L0000639 VOLUME 651031.227 4190720.519 0.0
LOCATION L0000640 VOLUME 651029.995 4190713.309 0.0
LOCATION L0000641 VOLUME 651028.762 4190706.098 0.0
LOCATION L0000642 VOLUME 651027.529 4190698.887 0.0
LOCATION L0000643 VOLUME 651026.297 4190691.677 0.0
LOCATION L0000644 VOLUME 651025.064 4190684.466 0.0
LOCATION L0000645 VOLUME 651023.831 4190677.256 0.0
LOCATION L0000646 VOLUME 651022.599 4190670.045 0.0
LOCATION L0000647 VOLUME 651021.366 4190662.834 0.0
LOCATION L0000648 VOLUME 651020.133 4190655.624 0.0
LOCATION L0000649 VOLUME 651018.901 4190648.413 0.0
LOCATION L0000650 VOLUME 651017.668 4190641.203 0.0
LOCATION L0000651 VOLUME 651016.435 4190633.992 0.0
LOCATION L0000652 VOLUME 651015.203 4190626.781 0.0
LOCATION L0000653 VOLUME 651013.970 4190619.571 0.0
LOCATION L0000654 VOLUME 651012.737 4190612.360 0.0
LOCATION L0000655 VOLUME 651011.505 4190605.150 0.0
LOCATION L0000656 VOLUME 651010.272 4190597.939 0.0
LOCATION L0000657 VOLUME 651009.039 4190590.728 0.0
LOCATION L0000658 VOLUME 651007.807 4190583.518 0.0
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LOCATION L0000663 VOLUME 651001.643 4190547.465 0.0
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LOCATION L0000665 VOLUME 650999.178 4190533.044 0.0
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LOCATION L0000674 VOLUME 650988.084 4190468.148 0.0
LOCATION L0000675 VOLUME 650986.851 4190460.938 0.0
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LOCATION L0000677 VOLUME 650984.386 4190446.517 0.0
LOCATION L0000678 VOLUME 650983.153 4190439.306 0.0
LOCATION L0000679 VOLUME 650981.921 4190432.095 0.0
LOCATION L0000680 VOLUME 650980.688 4190424.885 0.0
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LOCATION L0000682 VOLUME 650978.223 4190410.464 0.0
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LOCATION L0000684 VOLUME 650975.757 4190396.042 0.0
LOCATION L0000685 VOLUME 650974.525 4190388.832 0.0
LOCATION L0000686 VOLUME 650973.292 4190381.621 0.0
LOCATION L0000687 VOLUME 650972.059 4190374.411 0.0
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LOCATION L0000689 VOLUME 650969.594 4190359.989 0.0
LOCATION L0000690 VOLUME 650968.361 4190352.779 0.0
LOCATION L0000691 VOLUME 650967.128 4190345.568 0.0
LOCATION L0000692 VOLUME 650965.896 4190338.358 0.0
LOCATION L0000693 VOLUME 650964.663 4190331.147 0.0
LOCATION L0000694 VOLUME 650963.430 4190323.936 0.0
LOCATION L0000695 VOLUME 650962.198 4190316.726 0.0
LOCATION L0000696 VOLUME 650960.965 4190309.515 0.0
LOCATION L0000697 VOLUME 650959.732 4190302.305 0.0
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LOCATION L0000700 VOLUME 650956.034 4190280.673 0.0
LOCATION L0000701 VOLUME 650954.802 4190273.462 0.0
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LOCATION L0000706 VOLUME 650948.638 4190237.409 0.0
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LOCATION L0000708 VOLUME 650946.173 4190222.988 0.0
LOCATION L0000709 VOLUME 650944.940 4190215.778 0.0
LOCATION L0000710 VOLUME 650943.708 4190208.567 0.0
LOCATION L0000711 VOLUME 650942.475 4190201.356 0.0
LOCATION L0000712 VOLUME 650941.242 4190194.146 0.0
LOCATION L0000713 VOLUME 650940.010 4190186.935 0.0
LOCATION L0000714 VOLUME 650938.777 4190179.725 0.0
LOCATION L0000715 VOLUME 650937.544 4190172.514 0.0
LOCATION L0000716 VOLUME 650936.312 4190165.303 0.0
LOCATION L0000717 VOLUME 650935.079 4190158.093 0.0
LOCATION L0000718 VOLUME 650933.846 4190150.882 0.0
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LOCATION L0000721 VOLUME 650930.148 4190129.250 0.0
LOCATION L0000722 VOLUME 650928.916 4190122.040 0.0
LOCATION L0000723 VOLUME 650927.683 4190114.829 0.0
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LOCATION L0000725 VOLUME 650925.218 4190100.408 0.0
LOCATION L0000726 VOLUME 650923.985 4190093.197 0.0
LOCATION L0000727 VOLUME 650922.752 4190085.987 0.0
LOCATION L0000728 VOLUME 650921.520 4190078.776 0.0
LOCATION L0000729 VOLUME 650920.287 4190071.566 0.0
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Separated Volume Sources (2W)
** LINE VOLUME Source ID = SLINE5
** DESCRSRC On-site Mobile
** PREFIX
** Length of Side = 3.66
** Configuration = Separated 2W
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 8
** 651002.643, 4191012.857, 0.00, 4.00, 3.40
** 650914.315, 4191012.372, 0.00, 4.00, 3.40
** 650909.919, 4191101.163, 0.00, 4.00, 3.40
** 650821.129, 4191099.404, 0.00, 4.00, 3.40
** 650821.129, 4191017.647, 0.00, 4.00, 3.40
** 650912.557, 4191014.131, 0.00, 4.00, 3.40
** 650912.978, 4191010.700, 0.00, 4.00, 3.40
** 651002.054, 4191012.188, 0.00, 4.00, 3.40
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LOCATION L0000731 VOLUME 650993.499 4191012.807 0.0
LOCATION L0000732 VOLUME 650986.184 4191012.767 0.0
LOCATION L0000733 VOLUME 650978.869 4191012.726 0.0
LOCATION L0000734 VOLUME 650971.554 4191012.686 0.0
LOCATION L0000735 VOLUME 650964.239 4191012.646 0.0
LOCATION L0000736 VOLUME 650956.924 4191012.606 0.0
LOCATION L0000737 VOLUME 650949.609 4191012.566 0.0
LOCATION L0000738 VOLUME 650942.293 4191012.526 0.0
LOCATION L0000739 VOLUME 650934.978 4191012.486 0.0
LOCATION L0000740 VOLUME 650927.663 4191012.446 0.0
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LOCATION L0000745 VOLUME 650913.166 4191035.571 0.0
LOCATION L0000746 VOLUME 650912.805 4191042.878 0.0
LOCATION L0000747 VOLUME 650912.443 4191050.184 0.0
LOCATION L0000748 VOLUME 650912.081 4191057.490 0.0
LOCATION L0000749 VOLUME 650911.720 4191064.796 0.0
LOCATION L0000750 VOLUME 650911.358 4191072.103 0.0
LOCATION L0000751 VOLUME 650910.996 4191079.409 0.0
LOCATION L0000752 VOLUME 650910.634 4191086.715 0.0
LOCATION L0000753 VOLUME 650910.273 4191094.021 0.0
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LOCATION L0000755 VOLUME 650902.440 4191101.014 0.0
LOCATION L0000756 VOLUME 650895.126 4191100.870 0.0
LOCATION L0000757 VOLUME 650887.813 4191100.725 0.0
LOCATION L0000758 VOLUME 650880.499 4191100.580 0.0
LOCATION L0000759 VOLUME 650873.185 4191100.435 0.0

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   LOCATION L0000760     VOLUME   650865.871 4191100.290 0.0
   LOCATION L0000761     VOLUME   650858.558 4191100.146 0.0
   LOCATION L0000762     VOLUME   650851.244 4191100.001 0.0
   LOCATION L0000763     VOLUME   650843.930 4191099.856 0.0
   LOCATION L0000764     VOLUME   650836.616 4191099.711 0.0
   LOCATION L0000765     VOLUME   650829.303 4191099.566 0.0
   LOCATION L0000766     VOLUME   650821.989 4191099.421 0.0
   LOCATION L0000767     VOLUME   650821.129 4191092.949 0.0
   LOCATION L0000768     VOLUME   650821.129 4191085.634 0.0
   LOCATION L0000769     VOLUME   650821.129 4191078.319 0.0
   LOCATION L0000770     VOLUME   650821.129 4191071.003 0.0
   LOCATION L0000771     VOLUME   650821.129 4191063.688 0.0
   LOCATION L0000772     VOLUME   650821.129 4191056.373 0.0
   LOCATION L0000773     VOLUME   650821.129 4191049.058 0.0
   LOCATION L0000774     VOLUME   650821.129 4191041.743 0.0
   LOCATION L0000775     VOLUME   650821.129 4191034.427 0.0
   LOCATION L0000776     VOLUME   650821.129 4191027.112 0.0
   LOCATION L0000777     VOLUME   650821.129 4191019.797 0.0
   LOCATION L0000778     VOLUME   650826.291 4191017.449 0.0
   LOCATION L0000779     VOLUME   650833.600 4191017.167 0.0
   LOCATION L0000780     VOLUME   650840.910 4191016.886 0.0
   LOCATION L0000781     VOLUME   650848.220 4191016.605 0.0
   LOCATION L0000782     VOLUME   650855.530 4191016.324 0.0
   LOCATION L0000783     VOLUME   650862.840 4191016.043 0.0
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   LOCATION L0000787     VOLUME   650892.079 4191014.918 0.0
   LOCATION L0000788     VOLUME   650899.389 4191014.637 0.0
   LOCATION L0000789     VOLUME   650906.698 4191014.356 0.0
   LOCATION L0000790     VOLUME   650912.734 4191012.689 0.0
   LOCATION L0000791     VOLUME   650918.289 4191010.789 0.0
   LOCATION L0000792     VOLUME   650925.603 4191010.911 0.0
   LOCATION L0000793     VOLUME   650932.917 4191011.033 0.0
   LOCATION L0000794     VOLUME   650940.231 4191011.155 0.0
   LOCATION L0000795     VOLUME   650947.545 4191011.277 0.0
   LOCATION L0000796     VOLUME   650954.860 4191011.400 0.0
   LOCATION L0000797     VOLUME   650962.174 4191011.522 0.0
   LOCATION L0000798     VOLUME   650969.488 4191011.644 0.0
   LOCATION L0000799     VOLUME   650976.802 4191011.766 0.0
   LOCATION L0000800     VOLUME   650984.116 4191011.888 0.0
   LOCATION L0000801     VOLUME   650991.430 4191012.011 0.0
   LOCATION L0000802     VOLUME   650998.745 4191012.133 0.0
** End of LINE VOLUME Source ID = SLINE5
   LOCATION VOL1         VOLUME    650834.330  4191056.460         0.0
** DESCRSRC Idling Point 1
   LOCATION VOL2         VOLUME    650804.330  4191056.460         0.0
** DESCRSRC Idling Point 2
   LOCATION VOL3         VOLUME    650834.330  4191116.460         0.0
** DESCRSRC Idling Point 3
   LOCATION VOL4         VOLUME    650834.330  4190996.460         0.0
** DESCRSRC Idling Point 5
   LOCATION VOL5         VOLUME    650874.330  4191116.460         0.0
** DESCRSRC Idling Point 5
   LOCATION VOL6         VOLUME    650874.330  4191006.460         0.0
** DESCRSRC Idling Point 6
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  LOCATION VOL7        VOLUME     650914.330  4191006.460         0.0
** DESCRSRC Idling Point 7
  LOCATION STCK1       POINT      650853.390  4191115.980         0.0
** DESCRSRC TRU Location 1
  LOCATION STCK2       POINT      650803.990  4191056.300         0.0
** DESCRSRC TRU Location 2
  LOCATION STCK3       POINT      650833.830  4191056.960         0.0
** DESCRSRC TRU Location 3
  LOCATION STCK4       POINT      650873.290  4191006.890         0.0
** DESCRSRC TRU Location 4
  LOCATION STCK5       POINT      650955.070  4191091.000         0.0
** DESCRSRC Gasoline Servive Activities - Breathing Loss
  LOCATION STCK6       POINT      650954.740  4191091.670         0.0
** DESCRSRC Gasoline Servive Activities - Undergound Tank Loading
  LOCATION VOL8        VOLUME     650955.240  4191091.840         0.0
** DESCRSRC Gasoline Service Activities - Vehicle Refueling and Spillage (comb.)
** Source Parameters **
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SRCPARAM L0000704	0.0054054054	4.00	3.40	3.16

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   SRCPARAM L0000733    0.0136986301    4.00    3.40    3.16
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   SRCPARAM L0000735    0.0136986301    4.00    3.40    3.16
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  SRCPARAM L0000784    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000785    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000786    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000787    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000788    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000789    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000790    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000791    0.0136986301     4.00     3.40     3.16
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  SRCPARAM L0000793    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000794    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000795    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000796    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000797    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000798    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000799    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000800    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000801    0.0136986301     4.00     3.40     3.16
  SRCPARAM L0000802    0.0136986301     4.00     3.40     3.16
** ----------------------------------------------------------------
  SRCPARAM VOL1              1.0    4.000    1.156    0.000
  SRCPARAM VOL2              1.0    4.000    1.156    0.000
  SRCPARAM VOL3              1.0    4.000    1.156    0.000
  SRCPARAM VOL4              1.0    4.000    1.156    0.000
  SRCPARAM VOL5              1.0    4.000    1.156    0.000
  SRCPARAM VOL6              1.0    4.000    1.156    0.000
  SRCPARAM VOL7              1.0    4.000    1.156    0.000
  SRCPARAM STCK1             1.0    4.000  366.000     57.1      0.1
  SRCPARAM STCK2             1.0    4.000  366.000     57.1      0.1
  SRCPARAM STCK3             1.0    4.000  366.000     57.1      0.1
  SRCPARAM STCK4             1.0    4.000  366.000     57.1      0.1
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SRCPARAM STCK5          1.0    3.660   288.710  0.000106    0.0508
SRCPARAM STCK6          1.0    3.660   291.000   0.00035    0.0508
SRCPARAM VOL8           1.0    4.000     1.953     1.860
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SRCGROUP SLINE1   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP SLINE1   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP SLINE1   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP SLINE1   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
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SRCGROUP SLINE2   L0000313 L0000314 L0000315 L0000316 L0000317 L0000318
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  SRCGROUP STCK5    STCK5
  SRCGROUP STCK6    STCK6
  SRCGROUP VOL1     VOL1
  SRCGROUP VOL2     VOL2
  SRCGROUP VOL3     VOL3
  SRCGROUP VOL4     VOL4
  SRCGROUP VOL5     VOL5
  SRCGROUP VOL6     VOL6
  SRCGROUP VOL7     VOL7
  SRCGROUP VOL8     VOL8
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
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**
**
RE STARTING
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian Grid"
  DISCCART    650334.33   4190556.46
  DISCCART    650384.33   4190556.46
  DISCCART    650434.33   4190556.46
  DISCCART    650484.33   4190556.46
  DISCCART    650534.33   4190556.46
  DISCCART    650584.33   4190556.46
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DISCCART 650974.28 4190903.61
DISCCART 650989.95 4190868.34
DISCCART 651153.79 4190886.56
DISCCART 651170.44 4190902.10
DISCCART 651162.67 4190888.23
DISCCART 651241.49 4191031.43
DISCCART 650569.32 4190797.20

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** AERMOD Meteorology Pathway
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**
ME STARTING
  SURFFILE AERMET\Stockton_2013-2017.SFC
  PROFFILE AERMET\Stockton_2013-2017.PFL
  SURFDATA 23237 2013 Stockton
  UAIRDATA 23230 2013 OAKLAND/WSO_AP
  PROFBASE 7.9 METERS
ME FINISHED
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** AERMOD Output Pathway
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**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 SLINE1 1ST "Lathrop Singh.AD\01H1G001.PLT" 31
  PLOTFILE 1 SLINE2 1ST "Lathrop Singh.AD\01H1G002.PLT" 32
  PLOTFILE 1 SLINE3 1ST "Lathrop Singh.AD\01H1G003.PLT" 33
  PLOTFILE 1 SLINE4 1ST "Lathrop Singh.AD\01H1G004.PLT" 34
  PLOTFILE 1 SLINE5 1ST "Lathrop Singh.AD\01H1G005.PLT" 35
  PLOTFILE 1 STCK1 1ST "Lathrop Singh.AD\01H1G006.PLT" 36
  PLOTFILE 1 STCK2 1ST "Lathrop Singh.AD\01H1G007.PLT" 37
  PLOTFILE 1 STCK3 1ST "Lathrop Singh.AD\01H1G008.PLT" 38
  PLOTFILE 1 STCK4 1ST "Lathrop Singh.AD\01H1G009.PLT" 39
  PLOTFILE 1 STCK5 1ST "Lathrop Singh.AD\01H1G010.PLT" 40
  PLOTFILE 1 STCK6 1ST "Lathrop Singh.AD\01H1G011.PLT" 41
  PLOTFILE 1 VOL1 1ST "Lathrop Singh.AD\01H1G012.PLT" 42
  PLOTFILE 1 VOL2 1ST "Lathrop Singh.AD\01H1G013.PLT" 43
  PLOTFILE 1 VOL3 1ST "Lathrop Singh.AD\01H1G014.PLT" 44
  PLOTFILE 1 VOL4 1ST "Lathrop Singh.AD\01H1G015.PLT" 45
  PLOTFILE 1 VOL5 1ST "Lathrop Singh.AD\01H1G016.PLT" 46
  PLOTFILE 1 VOL6 1ST "Lathrop Singh.AD\01H1G017.PLT" 47
  PLOTFILE 1 VOL7 1ST "Lathrop Singh.AD\01H1G018.PLT" 48
  PLOTFILE 1 VOL8 1ST "Lathrop Singh.AD\01H1G019.PLT" 49
  PLOTFILE PERIOD SLINE1 "Lathrop Singh.AD\PE00G001.PLT" 50
  PLOTFILE PERIOD SLINE2 "Lathrop Singh.AD\PE00G002.PLT" 51
  PLOTFILE PERIOD SLINE3 "Lathrop Singh.AD\PE00G003.PLT" 52
  PLOTFILE PERIOD SLINE4 "Lathrop Singh.AD\PE00G004.PLT" 53
  PLOTFILE PERIOD SLINE5 "Lathrop Singh.AD\PE00G005.PLT" 54
  PLOTFILE PERIOD STCK1 "Lathrop Singh.AD\PE00G006.PLT" 55
  PLOTFILE PERIOD STCK2 "Lathrop Singh.AD\PE00G007.PLT" 56
  PLOTFILE PERIOD STCK3 "Lathrop Singh.AD\PE00G008.PLT" 57
  PLOTFILE PERIOD STCK4 "Lathrop Singh.AD\PE00G009.PLT" 58
  PLOTFILE PERIOD STCK5 "Lathrop Singh.AD\PE00G010.PLT" 59
  PLOTFILE PERIOD STCK6 "Lathrop Singh.AD\PE00G011.PLT" 60
  PLOTFILE PERIOD VOL1 "Lathrop Singh.AD\PE00G012.PLT" 61
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  PLOTFILE PERIOD VOL2 "Lathrop Singh.AD\PE00G013.PLT" 62
  PLOTFILE PERIOD VOL3 "Lathrop Singh.AD\PE00G014.PLT" 63
  PLOTFILE PERIOD VOL4 "Lathrop Singh.AD\PE00G015.PLT" 64
  PLOTFILE PERIOD VOL5 "Lathrop Singh.AD\PE00G016.PLT" 65
  PLOTFILE PERIOD VOL6 "Lathrop Singh.AD\PE00G017.PLT" 66
  PLOTFILE PERIOD VOL7 "Lathrop Singh.AD\PE00G018.PLT" 67
  PLOTFILE PERIOD VOL8 "Lathrop Singh.AD\PE00G019.PLT" 68
  SUMMFILE "Lathrop Singh.sum"
OU FINISHED


 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------

A Total of         0 Fatal Error Message(s)
A Total of        13 Warning Message(s)
A Total of         0 Informational Message(s)


  ******** FATAL ERROR MESSAGES ********
         ***  NONE  ***


  ********   WARNING MESSAGES   ********
SO W320    1780      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1781      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1782      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1783      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1784      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1785      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1786      VPARM: Input Parameter May Be Out-of-Range for Parameter      SZINIT
SO W320    1787      PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320    1788      PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320    1789      PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320    1790      PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
ME W186    2421      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    2421      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************

  *** AERMOD - VERSION  19191 ***   *** C:\Users\Smith\Dropbox\My PC (DESKTOP-
977GSBU)\Documents\HRA\Lathrop ***       12/20/23
*** AERMET - VERSION  18081 ***   ***                                          ***       19:55:06
                                                                    PAGE   1
*** MODELOPTs:    NonDFAULT  CONC  FLAT  RURAL  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 RURAL Dispersion Only.

**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

**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: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 816 Source(s); 19 Source Group(s); and 454 Receptor(s)

with: 6 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 810 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 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 = 4.3 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: Lathrop Singh.err
**File for Summary of Results: Lathrop Singh.sum

*** 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	0.10000E+01	650853.4	4191116.0	7.9	4.00	366.00	57.10	0.10	NO	NO	NO	
STCK2	0	0.10000E+01	650804.0	4191056.3	7.9	4.00	366.00	57.10	0.10	NO	NO	NO	
STCK3	0	0.10000E+01	650833.8	4191057.0	7.9	4.00	366.00	57.10	0.10	NO	NO	NO	
STCK4	0	0.10000E+01	650873.3	4191006.9	7.9	4.00	366.00	57.10	0.10	NO	NO	NO	
STCK5	0	0.10000E+01	650955.1	4191091.0	7.9	3.66	288.71	0.00	0.05	NO	NO	NO	
STCK6	0	0.10000E+01	650954.7	4191091.7	7.9	3.66	291.00	0.00	0.05	NO	NO	NO	

*** 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
L0000001	0	0.57471E-02	651005.9	4191016.1	7.9	4.00	3.40	3.16	NO	
L0000002	0	0.57471E-02	651005.2	4191023.3	7.9	4.00	3.40	3.16	NO	
L0000003	0	0.57471E-02	651004.4	4191030.6	7.9	4.00	3.40	3.16	NO	
L0000004	0	0.57471E-02	651003.7	4191037.9	7.9	4.00	3.40	3.16	NO	
L0000005	0	0.57471E-02	651003.0	4191045.2	7.9	4.00	3.40	3.16	NO	
L0000006	0	0.57471E-02	651002.2	4191052.5	7.9	4.00	3.40	3.16	NO	
L0000007	0	0.57471E-02	651001.5	4191059.7	7.9	4.00	3.40	3.16	NO	
L0000008	0	0.57471E-02	651000.7	4191067.0	7.9	4.00	3.40	3.16	NO	
L0000009	0	0.57471E-02	651000.0	4191074.3	7.9	4.00	3.40	3.16	NO	
L0000010	0	0.57471E-02	650999.2	4191081.6	7.9	4.00	3.40	3.16	NO	
L0000011	0	0.57471E-02	650998.5	4191088.8	7.9	4.00	3.40	3.16	NO	
L0000012	0	0.57471E-02	650997.8	4191096.1	7.9	4.00	3.40	3.16	NO	
L0000013	0	0.57471E-02	650997.0	4191103.4	7.9	4.00	3.40	3.16	NO	

L0000014	0	0.57471E-02	650996.3	4191110.7	7.9	4.00	3.40	3.16	NO
L0000015	0	0.57471E-02	650995.5	4191118.0	7.9	4.00	3.40	3.16	NO
L0000016	0	0.57471E-02	650994.8	4191125.2	7.9	4.00	3.40	3.16	NO
L0000017	0	0.57471E-02	650994.1	4191132.5	7.9	4.00	3.40	3.16	NO
L0000018	0	0.57471E-02	650993.3	4191139.8	7.9	4.00	3.40	3.16	NO
L0000019	0	0.57471E-02	650992.6	4191147.1	7.9	4.00	3.40	3.16	NO
L0000020	0	0.57471E-02	650991.8	4191154.3	7.9	4.00	3.40	3.16	NO
L0000021	0	0.57471E-02	650991.1	4191161.6	7.9	4.00	3.40	3.16	NO
L0000022	0	0.57471E-02	650990.3	4191168.9	7.9	4.00	3.40	3.16	NO
L0000023	0	0.57471E-02	650992.1	4191173.9	7.9	4.00	3.40	3.16	NO
L0000024	0	0.57471E-02	650999.4	4191174.0	7.9	4.00	3.40	3.16	NO
L0000025	0	0.57471E-02	651006.7	4191174.0	7.9	4.00	3.40	3.16	NO
L0000026	0	0.57471E-02	651014.0	4191174.0	7.9	4.00	3.40	3.16	NO
L0000027	0	0.57471E-02	651021.4	4191174.1	7.9	4.00	3.40	3.16	NO
L0000028	0	0.57471E-02	651028.7	4191174.1	7.9	4.00	3.40	3.16	NO
L0000029	0	0.57471E-02	651036.0	4191174.1	7.9	4.00	3.40	3.16	NO
L0000030	0	0.57471E-02	651043.3	4191174.2	7.9	4.00	3.40	3.16	NO
L0000031	0	0.57471E-02	651050.6	4191174.2	7.9	4.00	3.40	3.16	NO
L0000032	0	0.57471E-02	651057.9	4191174.3	7.9	4.00	3.40	3.16	NO
L0000033	0	0.57471E-02	651065.3	4191174.3	7.9	4.00	3.40	3.16	NO
L0000034	0	0.57471E-02	651072.6	4191174.3	7.9	4.00	3.40	3.16	NO
L0000035	0	0.57471E-02	651079.9	4191174.4	7.9	4.00	3.40	3.16	NO
L0000036	0	0.57471E-02	651087.2	4191174.4	7.9	4.00	3.40	3.16	NO
L0000037	0	0.57471E-02	651094.5	4191174.4	7.9	4.00	3.40	3.16	NO
L0000038	0	0.57471E-02	651101.8	4191174.5	7.9	4.00	3.40	3.16	NO
L0000039	0	0.57471E-02	651109.1	4191174.5	7.9	4.00	3.40	3.16	NO
L0000040	0	0.57471E-02	651116.5	4191174.5	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000041	0	0.57471E-02	651123.8	4191174.6	7.9	4.00	3.40	3.16	NO	
L0000042	0	0.57471E-02	651131.1	4191174.6	7.9	4.00	3.40	3.16	NO	
L0000043	0	0.57471E-02	651138.4	4191174.6	7.9	4.00	3.40	3.16	NO	
L0000044	0	0.57471E-02	651145.7	4191174.7	7.9	4.00	3.40	3.16	NO	
L0000045	0	0.57471E-02	651153.0	4191174.7	7.9	4.00	3.40	3.16	NO	
L0000046	0	0.57471E-02	651160.4	4191174.8	7.9	4.00	3.40	3.16	NO	
L0000047	0	0.57471E-02	651167.7	4191174.8	7.9	4.00	3.40	3.16	NO	
L0000048	0	0.57471E-02	651175.0	4191174.8	7.9	4.00	3.40	3.16	NO	
L0000049	0	0.57471E-02	651182.3	4191174.9	7.9	4.00	3.40	3.16	NO	
L0000050	0	0.57471E-02	651189.6	4191174.9	7.9	4.00	3.40	3.16	NO	
L0000051	0	0.57471E-02	651196.9	4191174.9	7.9	4.00	3.40	3.16	NO	
L0000052	0	0.57471E-02	651202.4	4191176.7	7.9	4.00	3.40	3.16	NO	
L0000053	0	0.57471E-02	651202.1	4191184.0	7.9	4.00	3.40	3.16	NO	
L0000054	0	0.57471E-02	651201.7	4191191.3	7.9	4.00	3.40	3.16	NO	
L0000055	0	0.57471E-02	651201.3	4191198.6	7.9	4.00	3.40	3.16	NO	

L0000056	0	0.57471E-02	651200.9	4191205.9	7.9	4.00	3.40	3.16	NO
L0000057	0	0.57471E-02	651200.5	4191213.2	7.9	4.00	3.40	3.16	NO
L0000058	0	0.57471E-02	651200.1	4191220.5	7.9	4.00	3.40	3.16	NO
L0000059	0	0.57471E-02	651199.7	4191227.8	7.9	4.00	3.40	3.16	NO
L0000060	0	0.57471E-02	651199.4	4191235.1	7.9	4.00	3.40	3.16	NO
L0000061	0	0.57471E-02	651199.4	4191242.4	7.9	4.00	3.40	3.16	NO
L0000062	0	0.57471E-02	651199.4	4191249.7	7.9	4.00	3.40	3.16	NO
L0000063	0	0.57471E-02	651199.4	4191257.1	7.9	4.00	3.40	3.16	NO
L0000064	0	0.57471E-02	651199.4	4191264.4	7.9	4.00	3.40	3.16	NO
L0000065	0	0.57471E-02	651199.4	4191271.7	7.9	4.00	3.40	3.16	NO
L0000066	0	0.57471E-02	651199.4	4191279.0	7.9	4.00	3.40	3.16	NO
L0000067	0	0.57471E-02	651199.4	4191286.3	7.9	4.00	3.40	3.16	NO
L0000068	0	0.57471E-02	651199.8	4191293.6	7.9	4.00	3.40	3.16	NO
L0000069	0	0.57471E-02	651200.5	4191300.9	7.9	4.00	3.40	3.16	NO
L0000070	0	0.57471E-02	651201.2	4191308.2	7.9	4.00	3.40	3.16	NO
L0000071	0	0.57471E-02	651201.8	4191315.5	7.9	4.00	3.40	3.16	NO
L0000072	0	0.57471E-02	651202.5	4191322.7	7.9	4.00	3.40	3.16	NO
L0000073	0	0.57471E-02	651203.2	4191330.0	7.9	4.00	3.40	3.16	NO
L0000074	0	0.57471E-02	651203.9	4191337.3	7.9	4.00	3.40	3.16	NO
L0000075	0	0.57471E-02	651204.5	4191344.6	7.9	4.00	3.40	3.16	NO
L0000076	0	0.57471E-02	651205.2	4191351.9	7.9	4.00	3.40	3.16	NO
L0000077	0	0.57471E-02	651205.9	4191359.2	7.9	4.00	3.40	3.16	NO
L0000078	0	0.57471E-02	651206.6	4191366.4	7.9	4.00	3.40	3.16	NO
L0000079	0	0.57471E-02	651207.2	4191373.7	7.9	4.00	3.40	3.16	NO
L0000080	0	0.57471E-02	651207.9	4191381.0	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE ELEV. X (METERS)	BASE ELEV. Y (METERS)	BASE ELEV. ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.57471E-02	651208.6	4191388.3	7.9	4.00	3.40	3.16	NO	
L0000082	0	0.57471E-02	651209.3	4191395.6	7.9	4.00	3.40	3.16	NO	
L0000083	0	0.57471E-02	651209.9	4191402.9	7.9	4.00	3.40	3.16	NO	
L0000084	0	0.57471E-02	651210.6	4191410.2	7.9	4.00	3.40	3.16	NO	
L0000085	0	0.57471E-02	651211.3	4191417.4	7.9	4.00	3.40	3.16	NO	
L0000086	0	0.57471E-02	651212.0	4191424.7	7.9	4.00	3.40	3.16	NO	
L0000087	0	0.57471E-02	651212.6	4191432.0	7.9	4.00	3.40	3.16	NO	
L0000088	0	0.57471E-02	651213.3	4191439.3	7.9	4.00	3.40	3.16	NO	
L0000089	0	0.57471E-02	651214.0	4191446.6	7.9	4.00	3.40	3.16	NO	
L0000090	0	0.57471E-02	651214.7	4191453.9	7.9	4.00	3.40	3.16	NO	
L0000091	0	0.57471E-02	651215.3	4191461.1	7.9	4.00	3.40	3.16	NO	
L0000092	0	0.57471E-02	651216.0	4191468.4	7.9	4.00	3.40	3.16	NO	
L0000093	0	0.57471E-02	651216.7	4191475.7	7.9	4.00	3.40	3.16	NO	
L0000094	0	0.57471E-02	651217.3	4191483.0	7.9	4.00	3.40	3.16	NO	
L0000095	0	0.57471E-02	651218.0	4191490.3	7.9	4.00	3.40	3.16	NO	
L0000096	0	0.57471E-02	651218.7	4191497.6	7.9	4.00	3.40	3.16	NO	
L0000097	0	0.57471E-02	651219.4	4191504.8	7.9	4.00	3.40	3.16	NO	

L0000098	0	0.57471E-02	651220.0	4191512.1	7.9	4.00	3.40	3.16	NO
L0000099	0	0.57471E-02	651220.7	4191519.4	7.9	4.00	3.40	3.16	NO
L0000100	0	0.57471E-02	651221.7	4191526.7	7.9	4.00	3.40	3.16	NO
L0000101	0	0.57471E-02	651222.9	4191533.9	7.9	4.00	3.40	3.16	NO
L0000102	0	0.57471E-02	651224.0	4191541.1	7.9	4.00	3.40	3.16	NO
L0000103	0	0.57471E-02	651225.2	4191548.3	7.9	4.00	3.40	3.16	NO
L0000104	0	0.57471E-02	651226.3	4191555.6	7.9	4.00	3.40	3.16	NO
L0000105	0	0.57471E-02	651227.5	4191562.8	7.9	4.00	3.40	3.16	NO
L0000106	0	0.57471E-02	651228.6	4191570.0	7.9	4.00	3.40	3.16	NO
L0000107	0	0.57471E-02	651229.7	4191577.2	7.9	4.00	3.40	3.16	NO
L0000108	0	0.57471E-02	651230.9	4191584.5	7.9	4.00	3.40	3.16	NO
L0000109	0	0.57471E-02	651232.0	4191591.7	7.9	4.00	3.40	3.16	NO
L0000110	0	0.57471E-02	651233.2	4191598.9	7.9	4.00	3.40	3.16	NO
L0000111	0	0.57471E-02	651234.3	4191606.1	7.9	4.00	3.40	3.16	NO
L0000112	0	0.57471E-02	651235.5	4191613.4	7.9	4.00	3.40	3.16	NO
L0000113	0	0.57471E-02	651236.6	4191620.6	7.9	4.00	3.40	3.16	NO
L0000114	0	0.57471E-02	651237.8	4191627.8	7.9	4.00	3.40	3.16	NO
L0000115	0	0.57471E-02	651238.4	4191635.1	7.9	4.00	3.40	3.16	NO
L0000116	0	0.57471E-02	651238.7	4191642.4	7.9	4.00	3.40	3.16	NO
L0000117	0	0.57471E-02	651238.9	4191649.7	7.9	4.00	3.40	3.16	NO
L0000118	0	0.57471E-02	651239.2	4191657.0	7.9	4.00	3.40	3.16	NO
L0000119	0	0.57471E-02	651239.5	4191664.3	7.9	4.00	3.40	3.16	NO
L0000120	0	0.57471E-02	651239.8	4191671.6	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000121	0	0.57471E-02	651240.0	4191678.9	7.9	4.00	3.40	3.16	NO	
L0000122	0	0.57471E-02	651240.3	4191686.2	7.9	4.00	3.40	3.16	NO	
L0000123	0	0.57471E-02	651240.6	4191693.6	7.9	4.00	3.40	3.16	NO	
L0000124	0	0.57471E-02	651240.8	4191700.9	7.9	4.00	3.40	3.16	NO	
L0000125	0	0.57471E-02	651241.1	4191708.2	7.9	4.00	3.40	3.16	NO	
L0000126	0	0.57471E-02	651241.4	4191715.5	7.9	4.00	3.40	3.16	NO	
L0000127	0	0.57471E-02	651242.7	4191722.7	7.9	4.00	3.40	3.16	NO	
L0000128	0	0.57471E-02	651244.2	4191729.8	7.9	4.00	3.40	3.16	NO	
L0000129	0	0.57471E-02	651245.7	4191737.0	7.9	4.00	3.40	3.16	NO	
L0000130	0	0.57471E-02	651247.1	4191744.2	7.9	4.00	3.40	3.16	NO	
L0000131	0	0.57471E-02	651248.6	4191751.3	7.9	4.00	3.40	3.16	NO	
L0000132	0	0.57471E-02	651250.1	4191758.5	7.9	4.00	3.40	3.16	NO	
L0000133	0	0.57471E-02	651251.6	4191765.7	7.9	4.00	3.40	3.16	NO	
L0000134	0	0.57471E-02	651253.1	4191772.8	7.9	4.00	3.40	3.16	NO	
L0000135	0	0.57471E-02	651254.6	4191780.0	7.9	4.00	3.40	3.16	NO	
L0000136	0	0.57471E-02	651256.1	4191787.1	7.9	4.00	3.40	3.16	NO	
L0000137	0	0.57471E-02	651257.5	4191794.3	7.9	4.00	3.40	3.16	NO	
L0000138	0	0.57471E-02	651259.0	4191801.5	7.9	4.00	3.40	3.16	NO	
L0000139	0	0.57471E-02	651260.5	4191808.6	7.9	4.00	3.40	3.16	NO	

L0000140	0	0.57471E-02	651262.0	4191815.8	7.9	4.00	3.40	3.16	NO
L0000141	0	0.57471E-02	651263.5	4191823.0	7.9	4.00	3.40	3.16	NO
L0000142	0	0.57471E-02	651265.0	4191830.1	7.9	4.00	3.40	3.16	NO
L0000143	0	0.57471E-02	651266.4	4191837.3	7.9	4.00	3.40	3.16	NO
L0000144	0	0.57471E-02	651267.9	4191844.4	7.9	4.00	3.40	3.16	NO
L0000145	0	0.57471E-02	651269.4	4191851.6	7.9	4.00	3.40	3.16	NO
L0000146	0	0.57471E-02	651270.9	4191858.8	7.9	4.00	3.40	3.16	NO
L0000147	0	0.57471E-02	651272.4	4191865.9	7.9	4.00	3.40	3.16	NO
L0000148	0	0.57471E-02	651273.9	4191873.1	7.9	4.00	3.40	3.16	NO
L0000149	0	0.57471E-02	651275.3	4191880.3	7.9	4.00	3.40	3.16	NO
L0000150	0	0.57471E-02	651276.8	4191887.4	7.9	4.00	3.40	3.16	NO
L0000151	0	0.57471E-02	651278.3	4191894.6	7.9	4.00	3.40	3.16	NO
L0000152	0	0.57471E-02	651279.8	4191901.7	7.9	4.00	3.40	3.16	NO
L0000153	0	0.57471E-02	651281.3	4191908.9	7.9	4.00	3.40	3.16	NO
L0000154	0	0.57471E-02	651282.8	4191916.1	7.9	4.00	3.40	3.16	NO
L0000155	0	0.57471E-02	651284.3	4191923.2	7.9	4.00	3.40	3.16	NO
L0000156	0	0.57471E-02	651285.7	4191930.4	7.9	4.00	3.40	3.16	NO
L0000157	0	0.57471E-02	651287.2	4191937.6	7.9	4.00	3.40	3.16	NO
L0000158	0	0.57471E-02	651288.7	4191944.7	7.9	4.00	3.40	3.16	NO
L0000159	0	0.57471E-02	651290.2	4191951.9	7.9	4.00	3.40	3.16	NO
L0000160	0	0.57471E-02	651291.7	4191959.1	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000161	0	0.57471E-02	651293.2	4191966.2	7.9	4.00	3.40	3.16	NO	
L0000162	0	0.57471E-02	651294.6	4191973.4	7.9	4.00	3.40	3.16	NO	
L0000163	0	0.57471E-02	651296.1	4191980.5	7.9	4.00	3.40	3.16	NO	
L0000164	0	0.57471E-02	651297.6	4191987.7	7.9	4.00	3.40	3.16	NO	
L0000165	0	0.57471E-02	651299.1	4191994.9	7.9	4.00	3.40	3.16	NO	
L0000166	0	0.57471E-02	651300.6	4192002.0	7.9	4.00	3.40	3.16	NO	
L0000167	0	0.57471E-02	651302.1	4192009.2	7.9	4.00	3.40	3.16	NO	
L0000168	0	0.57471E-02	651303.5	4192016.4	7.9	4.00	3.40	3.16	NO	
L0000169	0	0.57471E-02	651305.0	4192023.5	7.9	4.00	3.40	3.16	NO	
L0000170	0	0.57471E-02	651306.5	4192030.7	7.9	4.00	3.40	3.16	NO	
L0000171	0	0.57471E-02	651308.0	4192037.8	7.9	4.00	3.40	3.16	NO	
L0000172	0	0.57471E-02	651309.5	4192045.0	7.9	4.00	3.40	3.16	NO	
L0000173	0	0.57471E-02	651311.0	4192052.2	7.9	4.00	3.40	3.16	NO	
L0000174	0	0.57471E-02	651312.5	4192059.3	7.9	4.00	3.40	3.16	NO	
L0000175	0	0.62893E-02	651286.4	4192062.9	7.9	4.00	3.40	3.16	NO	
L0000176	0	0.62893E-02	651284.9	4192055.7	7.9	4.00	3.40	3.16	NO	
L0000177	0	0.62893E-02	651283.5	4192048.6	7.9	4.00	3.40	3.16	NO	
L0000178	0	0.62893E-02	651282.0	4192041.4	7.9	4.00	3.40	3.16	NO	
L0000179	0	0.62893E-02	651280.5	4192034.2	7.9	4.00	3.40	3.16	NO	
L0000180	0	0.62893E-02	651279.0	4192027.1	7.9	4.00	3.40	3.16	NO	
L0000181	0	0.62893E-02	651277.5	4192019.9	7.9	4.00	3.40	3.16	NO	

L0000182	0	0.62893E-02	651276.0	4192012.8	7.9	4.00	3.40	3.16	NO
L0000183	0	0.62893E-02	651274.5	4192005.6	7.9	4.00	3.40	3.16	NO
L0000184	0	0.62893E-02	651273.0	4191998.4	7.9	4.00	3.40	3.16	NO
L0000185	0	0.62893E-02	651271.5	4191991.3	7.9	4.00	3.40	3.16	NO
L0000186	0	0.62893E-02	651270.0	4191984.1	7.9	4.00	3.40	3.16	NO
L0000187	0	0.62893E-02	651268.5	4191976.9	7.9	4.00	3.40	3.16	NO
L0000188	0	0.62893E-02	651267.0	4191969.8	7.9	4.00	3.40	3.16	NO
L0000189	0	0.62893E-02	651265.5	4191962.6	7.9	4.00	3.40	3.16	NO
L0000190	0	0.62893E-02	651264.0	4191955.5	7.9	4.00	3.40	3.16	NO
L0000191	0	0.62893E-02	651262.5	4191948.3	7.9	4.00	3.40	3.16	NO
L0000192	0	0.62893E-02	651261.0	4191941.1	7.9	4.00	3.40	3.16	NO
L0000193	0	0.62893E-02	651259.5	4191934.0	7.9	4.00	3.40	3.16	NO
L0000194	0	0.62893E-02	651258.0	4191926.8	7.9	4.00	3.40	3.16	NO
L0000195	0	0.62893E-02	651256.5	4191919.7	7.9	4.00	3.40	3.16	NO
L0000196	0	0.62893E-02	651255.1	4191912.5	7.9	4.00	3.40	3.16	NO
L0000197	0	0.62893E-02	651253.6	4191905.3	7.9	4.00	3.40	3.16	NO
L0000198	0	0.62893E-02	651252.1	4191898.2	7.9	4.00	3.40	3.16	NO
L0000199	0	0.62893E-02	651250.6	4191891.0	7.9	4.00	3.40	3.16	NO
L0000200	0	0.62893E-02	651249.1	4191883.9	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000201	0	0.62893E-02	651247.6	4191876.7	7.9	4.00	3.40	3.16	NO	
L0000202	0	0.62893E-02	651246.1	4191869.5	7.9	4.00	3.40	3.16	NO	
L0000203	0	0.62893E-02	651244.6	4191862.4	7.9	4.00	3.40	3.16	NO	
L0000204	0	0.62893E-02	651243.1	4191855.2	7.9	4.00	3.40	3.16	NO	
L0000205	0	0.62893E-02	651241.6	4191848.0	7.9	4.00	3.40	3.16	NO	
L0000206	0	0.62893E-02	651240.1	4191840.9	7.9	4.00	3.40	3.16	NO	
L0000207	0	0.62893E-02	651238.6	4191833.7	7.9	4.00	3.40	3.16	NO	
L0000208	0	0.62893E-02	651237.1	4191826.6	7.9	4.00	3.40	3.16	NO	
L0000209	0	0.62893E-02	651235.6	4191819.4	7.9	4.00	3.40	3.16	NO	
L0000210	0	0.62893E-02	651234.1	4191812.2	7.9	4.00	3.40	3.16	NO	
L0000211	0	0.62893E-02	651232.6	4191805.1	7.9	4.00	3.40	3.16	NO	
L0000212	0	0.62893E-02	651231.1	4191797.9	7.9	4.00	3.40	3.16	NO	
L0000213	0	0.62893E-02	651229.6	4191790.8	7.9	4.00	3.40	3.16	NO	
L0000214	0	0.62893E-02	651228.2	4191783.6	7.9	4.00	3.40	3.16	NO	
L0000215	0	0.62893E-02	651226.7	4191776.4	7.9	4.00	3.40	3.16	NO	
L0000216	0	0.62893E-02	651225.2	4191769.3	7.9	4.00	3.40	3.16	NO	
L0000217	0	0.62893E-02	651223.7	4191762.1	7.9	4.00	3.40	3.16	NO	
L0000218	0	0.62893E-02	651222.2	4191755.0	7.9	4.00	3.40	3.16	NO	
L0000219	0	0.62893E-02	651220.7	4191747.8	7.9	4.00	3.40	3.16	NO	
L0000220	0	0.62893E-02	651219.2	4191740.6	7.9	4.00	3.40	3.16	NO	
L0000221	0	0.62893E-02	651217.7	4191733.5	7.9	4.00	3.40	3.16	NO	
L0000222	0	0.62893E-02	651216.2	4191726.3	7.9	4.00	3.40	3.16	NO	
L0000223	0	0.62893E-02	651214.7	4191719.2	7.9	4.00	3.40	3.16	NO	

L0000224	0	0.62893E-02	651213.2	4191712.0	7.9	4.00	3.40	3.16	NO
L0000225	0	0.62893E-02	651211.7	4191704.8	7.9	4.00	3.40	3.16	NO
L0000226	0	0.62893E-02	651210.2	4191697.7	7.9	4.00	3.40	3.16	NO
L0000227	0	0.62893E-02	651208.7	4191690.5	7.9	4.00	3.40	3.16	NO
L0000228	0	0.62893E-02	651207.2	4191683.3	7.9	4.00	3.40	3.16	NO
L0000229	0	0.62893E-02	651205.7	4191676.2	7.9	4.00	3.40	3.16	NO
L0000230	0	0.62893E-02	651204.2	4191669.0	7.9	4.00	3.40	3.16	NO
L0000231	0	0.62893E-02	651202.7	4191661.9	7.9	4.00	3.40	3.16	NO
L0000232	0	0.62893E-02	651201.2	4191654.7	7.9	4.00	3.40	3.16	NO
L0000233	0	0.62893E-02	651199.8	4191647.5	7.9	4.00	3.40	3.16	NO
L0000234	0	0.62893E-02	651198.3	4191640.4	7.9	4.00	3.40	3.16	NO
L0000235	0	0.62893E-02	651196.8	4191633.2	7.9	4.00	3.40	3.16	NO
L0000236	0	0.62893E-02	651195.3	4191626.1	7.9	4.00	3.40	3.16	NO
L0000237	0	0.62893E-02	651193.8	4191618.9	7.9	4.00	3.40	3.16	NO
L0000238	0	0.62893E-02	651192.3	4191611.7	7.9	4.00	3.40	3.16	NO
L0000239	0	0.62893E-02	651190.8	4191604.6	7.9	4.00	3.40	3.16	NO
L0000240	0	0.62893E-02	651189.2	4191597.4	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000241	0	0.62893E-02	651187.0	4191590.5	7.9	4.00	3.40	3.16	NO	
L0000242	0	0.62893E-02	651184.7	4191583.5	7.9	4.00	3.40	3.16	NO	
L0000243	0	0.62893E-02	651182.4	4191576.6	7.9	4.00	3.40	3.16	NO	
L0000244	0	0.62893E-02	651180.2	4191569.6	7.9	4.00	3.40	3.16	NO	
L0000245	0	0.62893E-02	651177.9	4191562.7	7.9	4.00	3.40	3.16	NO	
L0000246	0	0.62893E-02	651175.7	4191555.7	7.9	4.00	3.40	3.16	NO	
L0000247	0	0.62893E-02	651173.4	4191548.7	7.9	4.00	3.40	3.16	NO	
L0000248	0	0.62893E-02	651171.1	4191541.8	7.9	4.00	3.40	3.16	NO	
L0000249	0	0.62893E-02	651168.9	4191534.8	7.9	4.00	3.40	3.16	NO	
L0000250	0	0.62893E-02	651166.6	4191527.9	7.9	4.00	3.40	3.16	NO	
L0000251	0	0.62893E-02	651164.4	4191520.9	7.9	4.00	3.40	3.16	NO	
L0000252	0	0.62893E-02	651162.1	4191514.0	7.9	4.00	3.40	3.16	NO	
L0000253	0	0.62893E-02	651159.8	4191507.0	7.9	4.00	3.40	3.16	NO	
L0000254	0	0.62893E-02	651157.6	4191500.0	7.9	4.00	3.40	3.16	NO	
L0000255	0	0.62893E-02	651155.3	4191493.1	7.9	4.00	3.40	3.16	NO	
L0000256	0	0.62893E-02	651153.0	4191486.1	7.9	4.00	3.40	3.16	NO	
L0000257	0	0.62893E-02	651150.8	4191479.2	7.9	4.00	3.40	3.16	NO	
L0000258	0	0.62893E-02	651148.5	4191472.2	7.9	4.00	3.40	3.16	NO	
L0000259	0	0.62893E-02	651146.3	4191465.3	7.9	4.00	3.40	3.16	NO	
L0000260	0	0.62893E-02	651144.0	4191458.3	7.9	4.00	3.40	3.16	NO	
L0000261	0	0.62893E-02	651141.7	4191451.3	7.9	4.00	3.40	3.16	NO	
L0000262	0	0.62893E-02	651139.5	4191444.4	7.9	4.00	3.40	3.16	NO	
L0000263	0	0.62893E-02	651137.2	4191437.4	7.9	4.00	3.40	3.16	NO	
L0000264	0	0.62893E-02	651134.9	4191430.5	7.9	4.00	3.40	3.16	NO	
L0000265	0	0.62893E-02	651132.7	4191423.5	7.9	4.00	3.40	3.16	NO	

L0000266	0	0.62893E-02	651130.4	4191416.6	7.9	4.00	3.40	3.16	NO
L0000267	0	0.62893E-02	651128.2	4191409.6	7.9	4.00	3.40	3.16	NO
L0000268	0	0.62893E-02	651125.9	4191402.6	7.9	4.00	3.40	3.16	NO
L0000269	0	0.62893E-02	651123.6	4191395.7	7.9	4.00	3.40	3.16	NO
L0000270	0	0.62893E-02	651121.4	4191388.7	7.9	4.00	3.40	3.16	NO
L0000271	0	0.62893E-02	651119.1	4191381.8	7.9	4.00	3.40	3.16	NO
L0000272	0	0.62893E-02	651116.9	4191374.8	7.9	4.00	3.40	3.16	NO
L0000273	0	0.62893E-02	651114.6	4191367.9	7.9	4.00	3.40	3.16	NO
L0000274	0	0.62893E-02	651112.3	4191360.9	7.9	4.00	3.40	3.16	NO
L0000275	0	0.62893E-02	651110.1	4191353.9	7.9	4.00	3.40	3.16	NO
L0000276	0	0.62893E-02	651107.8	4191347.0	7.9	4.00	3.40	3.16	NO
L0000277	0	0.62893E-02	651105.5	4191340.0	7.9	4.00	3.40	3.16	NO
L0000278	0	0.62893E-02	651103.3	4191333.1	7.9	4.00	3.40	3.16	NO
L0000279	0	0.62893E-02	651100.9	4191326.2	7.9	4.00	3.40	3.16	NO
L0000280	0	0.62893E-02	651098.5	4191319.3	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000281	0	0.62893E-02	651096.0	4191312.4	7.9	4.00	3.40	3.16	NO	
L0000282	0	0.62893E-02	651093.6	4191305.5	7.9	4.00	3.40	3.16	NO	
L0000283	0	0.62893E-02	651091.2	4191298.6	7.9	4.00	3.40	3.16	NO	
L0000284	0	0.62893E-02	651088.8	4191291.7	7.9	4.00	3.40	3.16	NO	
L0000285	0	0.62893E-02	651086.4	4191284.7	7.9	4.00	3.40	3.16	NO	
L0000286	0	0.62893E-02	651083.9	4191277.8	7.9	4.00	3.40	3.16	NO	
L0000287	0	0.62893E-02	651081.5	4191270.9	7.9	4.00	3.40	3.16	NO	
L0000288	0	0.62893E-02	651079.1	4191264.0	7.9	4.00	3.40	3.16	NO	
L0000289	0	0.62893E-02	651076.7	4191257.1	7.9	4.00	3.40	3.16	NO	
L0000290	0	0.62893E-02	651074.3	4191250.2	7.9	4.00	3.40	3.16	NO	
L0000291	0	0.62893E-02	651071.8	4191243.3	7.9	4.00	3.40	3.16	NO	
L0000292	0	0.62893E-02	651069.4	4191236.4	7.9	4.00	3.40	3.16	NO	
L0000293	0	0.62893E-02	651067.0	4191229.5	7.9	4.00	3.40	3.16	NO	
L0000294	0	0.62893E-02	651064.6	4191222.6	7.9	4.00	3.40	3.16	NO	
L0000295	0	0.62893E-02	651063.7	4191215.5	7.9	4.00	3.40	3.16	NO	
L0000296	0	0.62893E-02	651063.9	4191208.2	7.9	4.00	3.40	3.16	NO	
L0000297	0	0.62893E-02	651064.1	4191200.8	7.9	4.00	3.40	3.16	NO	
L0000298	0	0.62893E-02	651064.2	4191193.5	7.9	4.00	3.40	3.16	NO	
L0000299	0	0.62893E-02	651063.3	4191187.3	7.9	4.00	3.40	3.16	NO	
L0000300	0	0.62893E-02	651056.0	4191187.3	7.9	4.00	3.40	3.16	NO	
L0000301	0	0.62893E-02	651048.7	4191187.4	7.9	4.00	3.40	3.16	NO	
L0000302	0	0.62893E-02	651041.4	4191187.5	7.9	4.00	3.40	3.16	NO	
L0000303	0	0.62893E-02	651034.1	4191187.6	7.9	4.00	3.40	3.16	NO	
L0000304	0	0.62893E-02	651026.8	4191187.6	7.9	4.00	3.40	3.16	NO	
L0000305	0	0.62893E-02	651019.4	4191187.7	7.9	4.00	3.40	3.16	NO	
L0000306	0	0.62893E-02	651012.1	4191187.8	7.9	4.00	3.40	3.16	NO	
L0000307	0	0.62893E-02	651004.8	4191187.8	7.9	4.00	3.40	3.16	NO	

L0000308	0	0.62893E-02	650997.5	4191187.9	7.9	4.00	3.40	3.16	NO
L0000309	0	0.62893E-02	650990.2	4191187.9	7.9	4.00	3.40	3.16	NO
L0000310	0	0.62893E-02	650990.9	4191180.7	7.9	4.00	3.40	3.16	NO
L0000311	0	0.62893E-02	650991.6	4191173.4	7.9	4.00	3.40	3.16	NO
L0000312	0	0.62893E-02	650992.2	4191166.1	7.9	4.00	3.40	3.16	NO
L0000313	0	0.62893E-02	650992.9	4191158.8	7.9	4.00	3.40	3.16	NO
L0000314	0	0.62893E-02	650993.6	4191151.5	7.9	4.00	3.40	3.16	NO
L0000315	0	0.62893E-02	650994.2	4191144.2	7.9	4.00	3.40	3.16	NO
L0000316	0	0.62893E-02	650994.9	4191136.9	7.9	4.00	3.40	3.16	NO
L0000317	0	0.62893E-02	650995.6	4191129.7	7.9	4.00	3.40	3.16	NO
L0000318	0	0.62893E-02	650996.2	4191122.4	7.9	4.00	3.40	3.16	NO
L0000319	0	0.62893E-02	650996.9	4191115.1	7.9	4.00	3.40	3.16	NO
L0000320	0	0.62893E-02	650997.5	4191107.8	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000321	0	0.62893E-02	650998.2	4191100.5	7.9	4.00	3.40	3.16	NO	
L0000322	0	0.62893E-02	650998.9	4191093.2	7.9	4.00	3.40	3.16	NO	
L0000323	0	0.62893E-02	650999.5	4191085.9	7.9	4.00	3.40	3.16	NO	
L0000324	0	0.62893E-02	651000.2	4191078.7	7.9	4.00	3.40	3.16	NO	
L0000325	0	0.62893E-02	651000.9	4191071.4	7.9	4.00	3.40	3.16	NO	
L0000326	0	0.62893E-02	651001.5	4191064.1	7.9	4.00	3.40	3.16	NO	
L0000327	0	0.62893E-02	651002.2	4191056.8	7.9	4.00	3.40	3.16	NO	
L0000328	0	0.62893E-02	651002.9	4191049.5	7.9	4.00	3.40	3.16	NO	
L0000329	0	0.62893E-02	651003.5	4191042.2	7.9	4.00	3.40	3.16	NO	
L0000330	0	0.62893E-02	651004.2	4191035.0	7.9	4.00	3.40	3.16	NO	
L0000331	0	0.62893E-02	651004.9	4191027.7	7.9	4.00	3.40	3.16	NO	
L0000332	0	0.62893E-02	651005.5	4191020.4	7.9	4.00	3.40	3.16	NO	
L0000333	0	0.62893E-02	651006.2	4191013.1	7.9	4.00	3.40	3.16	NO	
L0000334	0	0.47393E-02	650954.2	4190071.0	7.9	4.00	3.40	3.16	NO	
L0000335	0	0.47393E-02	650955.4	4190078.2	7.9	4.00	3.40	3.16	NO	
L0000336	0	0.47393E-02	650956.7	4190085.5	7.9	4.00	3.40	3.16	NO	
L0000337	0	0.47393E-02	650957.9	4190092.7	7.9	4.00	3.40	3.16	NO	
L0000338	0	0.47393E-02	650959.1	4190099.9	7.9	4.00	3.40	3.16	NO	
L0000339	0	0.47393E-02	650960.4	4190107.1	7.9	4.00	3.40	3.16	NO	
L0000340	0	0.47393E-02	650961.6	4190114.3	7.9	4.00	3.40	3.16	NO	
L0000341	0	0.47393E-02	650962.8	4190121.5	7.9	4.00	3.40	3.16	NO	
L0000342	0	0.47393E-02	650964.1	4190128.7	7.9	4.00	3.40	3.16	NO	
L0000343	0	0.47393E-02	650965.3	4190135.9	7.9	4.00	3.40	3.16	NO	
L0000344	0	0.47393E-02	650966.5	4190143.1	7.9	4.00	3.40	3.16	NO	
L0000345	0	0.47393E-02	650967.8	4190150.3	7.9	4.00	3.40	3.16	NO	
L0000346	0	0.47393E-02	650969.0	4190157.6	7.9	4.00	3.40	3.16	NO	
L0000347	0	0.47393E-02	650970.2	4190164.8	7.9	4.00	3.40	3.16	NO	
L0000348	0	0.47393E-02	650971.5	4190172.0	7.9	4.00	3.40	3.16	NO	
L0000349	0	0.47393E-02	650972.7	4190179.2	7.9	4.00	3.40	3.16	NO	

L0000350	0	0.47393E-02	650973.9	4190186.4	7.9	4.00	3.40	3.16	NO
L0000351	0	0.47393E-02	650975.2	4190193.6	7.9	4.00	3.40	3.16	NO
L0000352	0	0.47393E-02	650976.4	4190200.8	7.9	4.00	3.40	3.16	NO
L0000353	0	0.47393E-02	650977.6	4190208.0	7.9	4.00	3.40	3.16	NO
L0000354	0	0.47393E-02	650978.9	4190215.2	7.9	4.00	3.40	3.16	NO
L0000355	0	0.47393E-02	650980.1	4190222.4	7.9	4.00	3.40	3.16	NO
L0000356	0	0.47393E-02	650981.3	4190229.7	7.9	4.00	3.40	3.16	NO
L0000357	0	0.47393E-02	650982.6	4190236.9	7.9	4.00	3.40	3.16	NO
L0000358	0	0.47393E-02	650983.8	4190244.1	7.9	4.00	3.40	3.16	NO
L0000359	0	0.47393E-02	650985.0	4190251.3	7.9	4.00	3.40	3.16	NO
L0000360	0	0.47393E-02	650986.3	4190258.5	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000361	0	0.47393E-02	650987.5	4190265.7	7.9	4.00	3.40	3.16	NO	
L0000362	0	0.47393E-02	650988.7	4190272.9	7.9	4.00	3.40	3.16	NO	
L0000363	0	0.47393E-02	650990.0	4190280.1	7.9	4.00	3.40	3.16	NO	
L0000364	0	0.47393E-02	650991.2	4190287.3	7.9	4.00	3.40	3.16	NO	
L0000365	0	0.47393E-02	650992.4	4190294.6	7.9	4.00	3.40	3.16	NO	
L0000366	0	0.47393E-02	650993.7	4190301.8	7.9	4.00	3.40	3.16	NO	
L0000367	0	0.47393E-02	650994.9	4190309.0	7.9	4.00	3.40	3.16	NO	
L0000368	0	0.47393E-02	650996.1	4190316.2	7.9	4.00	3.40	3.16	NO	
L0000369	0	0.47393E-02	650997.4	4190323.4	7.9	4.00	3.40	3.16	NO	
L0000370	0	0.47393E-02	650998.6	4190330.6	7.9	4.00	3.40	3.16	NO	
L0000371	0	0.47393E-02	650999.8	4190337.8	7.9	4.00	3.40	3.16	NO	
L0000372	0	0.47393E-02	651001.1	4190345.0	7.9	4.00	3.40	3.16	NO	
L0000373	0	0.47393E-02	651002.3	4190352.2	7.9	4.00	3.40	3.16	NO	
L0000374	0	0.47393E-02	651003.5	4190359.4	7.9	4.00	3.40	3.16	NO	
L0000375	0	0.47393E-02	651004.8	4190366.7	7.9	4.00	3.40	3.16	NO	
L0000376	0	0.47393E-02	651006.0	4190373.9	7.9	4.00	3.40	3.16	NO	
L0000377	0	0.47393E-02	651007.2	4190381.1	7.9	4.00	3.40	3.16	NO	
L0000378	0	0.47393E-02	651008.5	4190388.3	7.9	4.00	3.40	3.16	NO	
L0000379	0	0.47393E-02	651009.7	4190395.5	7.9	4.00	3.40	3.16	NO	
L0000380	0	0.47393E-02	651010.9	4190402.7	7.9	4.00	3.40	3.16	NO	
L0000381	0	0.47393E-02	651012.2	4190409.9	7.9	4.00	3.40	3.16	NO	
L0000382	0	0.47393E-02	651013.4	4190417.1	7.9	4.00	3.40	3.16	NO	
L0000383	0	0.47393E-02	651014.7	4190424.3	7.9	4.00	3.40	3.16	NO	
L0000384	0	0.47393E-02	651015.9	4190431.5	7.9	4.00	3.40	3.16	NO	
L0000385	0	0.47393E-02	651017.1	4190438.8	7.9	4.00	3.40	3.16	NO	
L0000386	0	0.47393E-02	651018.4	4190446.0	7.9	4.00	3.40	3.16	NO	
L0000387	0	0.47393E-02	651019.6	4190453.2	7.9	4.00	3.40	3.16	NO	
L0000388	0	0.47393E-02	651020.8	4190460.4	7.9	4.00	3.40	3.16	NO	
L0000389	0	0.47393E-02	651022.1	4190467.6	7.9	4.00	3.40	3.16	NO	
L0000390	0	0.47393E-02	651023.3	4190474.8	7.9	4.00	3.40	3.16	NO	
L0000391	0	0.47393E-02	651024.5	4190482.0	7.9	4.00	3.40	3.16	NO	

L0000392	0	0.47393E-02	651025.8	4190489.2	7.9	4.00	3.40	3.16	NO
L0000393	0	0.47393E-02	651027.0	4190496.4	7.9	4.00	3.40	3.16	NO
L0000394	0	0.47393E-02	651028.2	4190503.7	7.9	4.00	3.40	3.16	NO
L0000395	0	0.47393E-02	651029.5	4190510.9	7.9	4.00	3.40	3.16	NO
L0000396	0	0.47393E-02	651030.7	4190518.1	7.9	4.00	3.40	3.16	NO
L0000397	0	0.47393E-02	651031.9	4190525.3	7.9	4.00	3.40	3.16	NO
L0000398	0	0.47393E-02	651033.2	4190532.5	7.9	4.00	3.40	3.16	NO
L0000399	0	0.47393E-02	651034.4	4190539.7	7.9	4.00	3.40	3.16	NO
L0000400	0	0.47393E-02	651035.6	4190546.9	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000401	0	0.47393E-02	651036.9	4190554.1	7.9	4.00	3.40	3.16	NO	
L0000402	0	0.47393E-02	651038.1	4190561.3	7.9	4.00	3.40	3.16	NO	
L0000403	0	0.47393E-02	651039.3	4190568.5	7.9	4.00	3.40	3.16	NO	
L0000404	0	0.47393E-02	651040.6	4190575.8	7.9	4.00	3.40	3.16	NO	
L0000405	0	0.47393E-02	651041.8	4190583.0	7.9	4.00	3.40	3.16	NO	
L0000406	0	0.47393E-02	651043.0	4190590.2	7.9	4.00	3.40	3.16	NO	
L0000407	0	0.47393E-02	651044.3	4190597.4	7.9	4.00	3.40	3.16	NO	
L0000408	0	0.47393E-02	651045.5	4190604.6	7.9	4.00	3.40	3.16	NO	
L0000409	0	0.47393E-02	651046.7	4190611.8	7.9	4.00	3.40	3.16	NO	
L0000410	0	0.47393E-02	651048.0	4190619.0	7.9	4.00	3.40	3.16	NO	
L0000411	0	0.47393E-02	651049.2	4190626.2	7.9	4.00	3.40	3.16	NO	
L0000412	0	0.47393E-02	651050.4	4190633.4	7.9	4.00	3.40	3.16	NO	
L0000413	0	0.47393E-02	651051.7	4190640.7	7.9	4.00	3.40	3.16	NO	
L0000414	0	0.47393E-02	651052.9	4190647.9	7.9	4.00	3.40	3.16	NO	
L0000415	0	0.47393E-02	651054.1	4190655.1	7.9	4.00	3.40	3.16	NO	
L0000416	0	0.47393E-02	651055.4	4190662.3	7.9	4.00	3.40	3.16	NO	
L0000417	0	0.47393E-02	651056.6	4190669.5	7.9	4.00	3.40	3.16	NO	
L0000418	0	0.47393E-02	651057.8	4190676.7	7.9	4.00	3.40	3.16	NO	
L0000419	0	0.47393E-02	651059.1	4190683.9	7.9	4.00	3.40	3.16	NO	
L0000420	0	0.47393E-02	651060.3	4190691.1	7.9	4.00	3.40	3.16	NO	
L0000421	0	0.47393E-02	651061.5	4190698.3	7.9	4.00	3.40	3.16	NO	
L0000422	0	0.47393E-02	651062.8	4190705.5	7.9	4.00	3.40	3.16	NO	
L0000423	0	0.47393E-02	651064.0	4190712.8	7.9	4.00	3.40	3.16	NO	
L0000424	0	0.47393E-02	651065.2	4190720.0	7.9	4.00	3.40	3.16	NO	
L0000425	0	0.47393E-02	651066.5	4190727.2	7.9	4.00	3.40	3.16	NO	
L0000426	0	0.47393E-02	651067.7	4190734.4	7.9	4.00	3.40	3.16	NO	
L0000427	0	0.47393E-02	651068.9	4190741.6	7.9	4.00	3.40	3.16	NO	
L0000428	0	0.47393E-02	651070.2	4190748.8	7.9	4.00	3.40	3.16	NO	
L0000429	0	0.47393E-02	651071.4	4190756.0	7.9	4.00	3.40	3.16	NO	
L0000430	0	0.47393E-02	651072.6	4190763.2	7.9	4.00	3.40	3.16	NO	
L0000431	0	0.47393E-02	651073.9	4190770.4	7.9	4.00	3.40	3.16	NO	
L0000432	0	0.47393E-02	651075.6	4190777.5	7.9	4.00	3.40	3.16	NO	
L0000433	0	0.47393E-02	651077.8	4190784.5	7.9	4.00	3.40	3.16	NO	

L0000434	0	0.47393E-02	651080.0	4190791.5	7.9	4.00	3.40	3.16	NO
L0000435	0	0.47393E-02	651082.3	4190798.4	7.9	4.00	3.40	3.16	NO
L0000436	0	0.47393E-02	651084.5	4190805.4	7.9	4.00	3.40	3.16	NO
L0000437	0	0.47393E-02	651086.7	4190812.4	7.9	4.00	3.40	3.16	NO
L0000438	0	0.47393E-02	651089.0	4190819.3	7.9	4.00	3.40	3.16	NO
L0000439	0	0.47393E-02	651091.2	4190826.3	7.9	4.00	3.40	3.16	NO
L0000440	0	0.47393E-02	651093.4	4190833.3	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000441	0	0.47393E-02	651095.6	4190840.2	7.9	4.00	3.40	3.16	NO	
L0000442	0	0.47393E-02	651097.9	4190847.2	7.9	4.00	3.40	3.16	NO	
L0000443	0	0.47393E-02	651100.1	4190854.2	7.9	4.00	3.40	3.16	NO	
L0000444	0	0.47393E-02	651102.3	4190861.1	7.9	4.00	3.40	3.16	NO	
L0000445	0	0.47393E-02	651104.6	4190868.1	7.9	4.00	3.40	3.16	NO	
L0000446	0	0.47393E-02	651106.8	4190875.1	7.9	4.00	3.40	3.16	NO	
L0000447	0	0.47393E-02	651109.0	4190882.0	7.9	4.00	3.40	3.16	NO	
L0000448	0	0.47393E-02	651111.3	4190889.0	7.9	4.00	3.40	3.16	NO	
L0000449	0	0.47393E-02	651113.5	4190896.0	7.9	4.00	3.40	3.16	NO	
L0000450	0	0.47393E-02	651115.7	4190902.9	7.9	4.00	3.40	3.16	NO	
L0000451	0	0.47393E-02	651117.9	4190909.9	7.9	4.00	3.40	3.16	NO	
L0000452	0	0.47393E-02	651120.2	4190916.9	7.9	4.00	3.40	3.16	NO	
L0000453	0	0.47393E-02	651122.4	4190923.8	7.9	4.00	3.40	3.16	NO	
L0000454	0	0.47393E-02	651124.6	4190930.8	7.9	4.00	3.40	3.16	NO	
L0000455	0	0.47393E-02	651126.9	4190937.8	7.9	4.00	3.40	3.16	NO	
L0000456	0	0.47393E-02	651129.1	4190944.7	7.9	4.00	3.40	3.16	NO	
L0000457	0	0.47393E-02	651131.3	4190951.7	7.9	4.00	3.40	3.16	NO	
L0000458	0	0.47393E-02	651133.6	4190958.7	7.9	4.00	3.40	3.16	NO	
L0000459	0	0.47393E-02	651135.8	4190965.6	7.9	4.00	3.40	3.16	NO	
L0000460	0	0.47393E-02	651138.0	4190972.6	7.9	4.00	3.40	3.16	NO	
L0000461	0	0.47393E-02	651140.4	4190979.5	7.9	4.00	3.40	3.16	NO	
L0000462	0	0.47393E-02	651142.9	4190986.4	7.9	4.00	3.40	3.16	NO	
L0000463	0	0.47393E-02	651145.5	4190993.2	7.9	4.00	3.40	3.16	NO	
L0000464	0	0.47393E-02	651148.0	4191000.1	7.9	4.00	3.40	3.16	NO	
L0000465	0	0.47393E-02	651150.5	4191007.0	7.9	4.00	3.40	3.16	NO	
L0000466	0	0.47393E-02	651153.1	4191013.8	7.9	4.00	3.40	3.16	NO	
L0000467	0	0.47393E-02	651155.6	4191020.7	7.9	4.00	3.40	3.16	NO	
L0000468	0	0.47393E-02	651158.2	4191027.5	7.9	4.00	3.40	3.16	NO	
L0000469	0	0.47393E-02	651160.7	4191034.4	7.9	4.00	3.40	3.16	NO	
L0000470	0	0.47393E-02	651163.2	4191041.3	7.9	4.00	3.40	3.16	NO	
L0000471	0	0.47393E-02	651165.8	4191048.1	7.9	4.00	3.40	3.16	NO	
L0000472	0	0.47393E-02	651168.3	4191055.0	7.9	4.00	3.40	3.16	NO	
L0000473	0	0.47393E-02	651170.9	4191061.9	7.9	4.00	3.40	3.16	NO	
L0000474	0	0.47393E-02	651173.4	4191068.7	7.9	4.00	3.40	3.16	NO	
L0000475	0	0.47393E-02	651175.9	4191075.6	7.9	4.00	3.40	3.16	NO	

L0000476	0	0.47393E-02	651178.5	4191082.4	7.9	4.00	3.40	3.16	NO
L0000477	0	0.47393E-02	651181.0	4191089.3	7.9	4.00	3.40	3.16	NO
L0000478	0	0.47393E-02	651183.6	4191096.2	7.9	4.00	3.40	3.16	NO
L0000479	0	0.47393E-02	651186.1	4191103.0	7.9	4.00	3.40	3.16	NO
L0000480	0	0.47393E-02	651188.6	4191109.9	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000481	0	0.47393E-02	651191.2	4191116.7	7.9	4.00	3.40	3.16	NO	
L0000482	0	0.47393E-02	651193.7	4191123.6	7.9	4.00	3.40	3.16	NO	
L0000483	0	0.47393E-02	651195.6	4191130.6	7.9	4.00	3.40	3.16	NO	
L0000484	0	0.47393E-02	651196.5	4191137.9	7.9	4.00	3.40	3.16	NO	
L0000485	0	0.47393E-02	651197.4	4191145.1	7.9	4.00	3.40	3.16	NO	
L0000486	0	0.47393E-02	651198.3	4191152.4	7.9	4.00	3.40	3.16	NO	
L0000487	0	0.47393E-02	651199.2	4191159.7	7.9	4.00	3.40	3.16	NO	
L0000488	0	0.47393E-02	651200.1	4191166.9	7.9	4.00	3.40	3.16	NO	
L0000489	0	0.47393E-02	651201.0	4191174.2	7.9	4.00	3.40	3.16	NO	
L0000490	0	0.47393E-02	651201.9	4191181.4	7.9	4.00	3.40	3.16	NO	
L0000491	0	0.47393E-02	651202.8	4191188.7	7.9	4.00	3.40	3.16	NO	
L0000492	0	0.47393E-02	651199.6	4191192.3	7.9	4.00	3.40	3.16	NO	
L0000493	0	0.47393E-02	651192.3	4191192.1	7.9	4.00	3.40	3.16	NO	
L0000494	0	0.47393E-02	651185.0	4191191.9	7.9	4.00	3.40	3.16	NO	
L0000495	0	0.47393E-02	651177.6	4191191.7	7.9	4.00	3.40	3.16	NO	
L0000496	0	0.47393E-02	651170.3	4191191.6	7.9	4.00	3.40	3.16	NO	
L0000497	0	0.47393E-02	651163.0	4191191.4	7.9	4.00	3.40	3.16	NO	
L0000498	0	0.47393E-02	651155.7	4191191.2	7.9	4.00	3.40	3.16	NO	
L0000499	0	0.47393E-02	651148.4	4191191.0	7.9	4.00	3.40	3.16	NO	
L0000500	0	0.47393E-02	651141.1	4191190.9	7.9	4.00	3.40	3.16	NO	
L0000501	0	0.47393E-02	651133.8	4191190.7	7.9	4.00	3.40	3.16	NO	
L0000502	0	0.47393E-02	651126.4	4191190.5	7.9	4.00	3.40	3.16	NO	
L0000503	0	0.47393E-02	651119.1	4191190.3	7.9	4.00	3.40	3.16	NO	
L0000504	0	0.47393E-02	651111.8	4191190.2	7.9	4.00	3.40	3.16	NO	
L0000505	0	0.47393E-02	651104.5	4191190.0	7.9	4.00	3.40	3.16	NO	
L0000506	0	0.47393E-02	651097.2	4191189.8	7.9	4.00	3.40	3.16	NO	
L0000507	0	0.47393E-02	651089.9	4191189.6	7.9	4.00	3.40	3.16	NO	
L0000508	0	0.47393E-02	651082.6	4191189.5	7.9	4.00	3.40	3.16	NO	
L0000509	0	0.47393E-02	651075.3	4191189.3	7.9	4.00	3.40	3.16	NO	
L0000510	0	0.47393E-02	651067.9	4191189.1	7.9	4.00	3.40	3.16	NO	
L0000511	0	0.47393E-02	651060.6	4191188.9	7.9	4.00	3.40	3.16	NO	
L0000512	0	0.47393E-02	651053.3	4191188.8	7.9	4.00	3.40	3.16	NO	
L0000513	0	0.47393E-02	651046.0	4191188.6	7.9	4.00	3.40	3.16	NO	
L0000514	0	0.47393E-02	651038.7	4191188.4	7.9	4.00	3.40	3.16	NO	
L0000515	0	0.47393E-02	651031.4	4191188.2	7.9	4.00	3.40	3.16	NO	
L0000516	0	0.47393E-02	651024.1	4191188.0	7.9	4.00	3.40	3.16	NO	
L0000517	0	0.47393E-02	651016.8	4191187.9	7.9	4.00	3.40	3.16	NO	

L0000518	0	0.47393E-02	651009.4	4191187.7	7.9	4.00	3.40	3.16	NO
L0000519	0	0.47393E-02	651002.1	4191187.5	7.9	4.00	3.40	3.16	NO
L0000520	0	0.47393E-02	650994.8	4191187.3	7.9	4.00	3.40	3.16	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000521	0	0.47393E-02	650991.3	4191183.8	7.9	4.00	3.40	3.16	NO	
L0000522	0	0.47393E-02	650991.9	4191176.5	7.9	4.00	3.40	3.16	NO	
L0000523	0	0.47393E-02	650992.5	4191169.2	7.9	4.00	3.40	3.16	NO	
L0000524	0	0.47393E-02	650993.1	4191161.9	7.9	4.00	3.40	3.16	NO	
L0000525	0	0.47393E-02	650993.8	4191154.7	7.9	4.00	3.40	3.16	NO	
L0000526	0	0.47393E-02	650994.4	4191147.4	7.9	4.00	3.40	3.16	NO	
L0000527	0	0.47393E-02	650995.0	4191140.1	7.9	4.00	3.40	3.16	NO	
L0000528	0	0.47393E-02	650995.7	4191132.8	7.9	4.00	3.40	3.16	NO	
L0000529	0	0.47393E-02	650996.3	4191125.5	7.9	4.00	3.40	3.16	NO	
L0000530	0	0.47393E-02	650996.9	4191118.2	7.9	4.00	3.40	3.16	NO	
L0000531	0	0.47393E-02	650997.6	4191110.9	7.9	4.00	3.40	3.16	NO	
L0000532	0	0.47393E-02	650998.2	4191103.6	7.9	4.00	3.40	3.16	NO	
L0000533	0	0.47393E-02	650998.8	4191096.4	7.9	4.00	3.40	3.16	NO	
L0000534	0	0.47393E-02	650999.5	4191089.1	7.9	4.00	3.40	3.16	NO	
L0000535	0	0.47393E-02	651000.1	4191081.8	7.9	4.00	3.40	3.16	NO	
L0000536	0	0.47393E-02	651000.7	4191074.5	7.9	4.00	3.40	3.16	NO	
L0000537	0	0.47393E-02	651001.4	4191067.2	7.9	4.00	3.40	3.16	NO	
L0000538	0	0.47393E-02	651002.0	4191059.9	7.9	4.00	3.40	3.16	NO	
L0000539	0	0.47393E-02	651002.6	4191052.6	7.9	4.00	3.40	3.16	NO	
L0000540	0	0.47393E-02	651003.3	4191045.3	7.9	4.00	3.40	3.16	NO	
L0000541	0	0.47393E-02	651003.9	4191038.1	7.9	4.00	3.40	3.16	NO	
L0000542	0	0.47393E-02	651004.5	4191030.8	7.9	4.00	3.40	3.16	NO	
L0000543	0	0.47393E-02	651005.2	4191023.5	7.9	4.00	3.40	3.16	NO	
L0000544	0	0.47393E-02	651005.8	4191016.2	7.9	4.00	3.40	3.16	NO	
L0000545	0	0.54054E-02	651007.1	4191017.4	7.9	4.00	3.40	3.16	NO	
L0000546	0	0.54054E-02	651006.3	4191024.7	7.9	4.00	3.40	3.16	NO	
L0000547	0	0.54054E-02	651005.4	4191031.9	7.9	4.00	3.40	3.16	NO	
L0000548	0	0.54054E-02	651004.5	4191039.2	7.9	4.00	3.40	3.16	NO	
L0000549	0	0.54054E-02	651003.7	4191046.4	7.9	4.00	3.40	3.16	NO	
L0000550	0	0.54054E-02	651002.8	4191053.7	7.9	4.00	3.40	3.16	NO	
L0000551	0	0.54054E-02	651001.9	4191061.0	7.9	4.00	3.40	3.16	NO	
L0000552	0	0.54054E-02	651001.1	4191068.2	7.9	4.00	3.40	3.16	NO	
L0000553	0	0.54054E-02	651000.2	4191075.5	7.9	4.00	3.40	3.16	NO	
L0000554	0	0.54054E-02	650999.3	4191082.8	7.9	4.00	3.40	3.16	NO	
L0000555	0	0.54054E-02	650998.4	4191090.0	7.9	4.00	3.40	3.16	NO	
L0000556	0	0.54054E-02	650997.6	4191097.3	7.9	4.00	3.40	3.16	NO	
L0000557	0	0.54054E-02	650996.7	4191104.6	7.9	4.00	3.40	3.16	NO	
L0000558	0	0.54054E-02	650995.8	4191111.8	7.9	4.00	3.40	3.16	NO	
L0000559	0	0.54054E-02	650995.0	4191119.1	7.9	4.00	3.40	3.16	NO	

L0000560 0 0.54054E-02 650994.1 4191126.3 7.9 4.00 3.40 3.16 NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000561	0	0.54054E-02	650993.2	4191133.6	7.9	4.00	3.40	3.16	NO	
L0000562	0	0.54054E-02	650992.4	4191140.9	7.9	4.00	3.40	3.16	NO	
L0000563	0	0.54054E-02	650991.5	4191148.1	7.9	4.00	3.40	3.16	NO	
L0000564	0	0.54054E-02	650990.6	4191155.4	7.9	4.00	3.40	3.16	NO	
L0000565	0	0.54054E-02	650989.8	4191162.7	7.9	4.00	3.40	3.16	NO	
L0000566	0	0.54054E-02	650988.9	4191169.9	7.9	4.00	3.40	3.16	NO	
L0000567	0	0.54054E-02	650989.9	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000568	0	0.54054E-02	650997.2	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000569	0	0.54054E-02	651004.5	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000570	0	0.54054E-02	651011.8	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000571	0	0.54054E-02	651019.1	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000572	0	0.54054E-02	651026.5	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000573	0	0.54054E-02	651033.8	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000574	0	0.54054E-02	651041.1	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000575	0	0.54054E-02	651048.4	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000576	0	0.54054E-02	651055.7	4191175.6	7.9	4.00	3.40	3.16	NO	
L0000577	0	0.54054E-02	651059.9	4191172.2	7.9	4.00	3.40	3.16	NO	
L0000578	0	0.54054E-02	651060.4	4191164.9	7.9	4.00	3.40	3.16	NO	
L0000579	0	0.54054E-02	651060.9	4191157.6	7.9	4.00	3.40	3.16	NO	
L0000580	0	0.54054E-02	651061.4	4191150.3	7.9	4.00	3.40	3.16	NO	
L0000581	0	0.54054E-02	651061.9	4191143.0	7.9	4.00	3.40	3.16	NO	
L0000582	0	0.54054E-02	651062.4	4191135.7	7.9	4.00	3.40	3.16	NO	
L0000583	0	0.54054E-02	651062.8	4191128.4	7.9	4.00	3.40	3.16	NO	
L0000584	0	0.54054E-02	651063.3	4191121.1	7.9	4.00	3.40	3.16	NO	
L0000585	0	0.54054E-02	651063.8	4191113.8	7.9	4.00	3.40	3.16	NO	
L0000586	0	0.54054E-02	651064.3	4191106.5	7.9	4.00	3.40	3.16	NO	
L0000587	0	0.54054E-02	651064.8	4191099.2	7.9	4.00	3.40	3.16	NO	
L0000588	0	0.54054E-02	651065.3	4191091.9	7.9	4.00	3.40	3.16	NO	
L0000589	0	0.54054E-02	651065.6	4191084.6	7.9	4.00	3.40	3.16	NO	
L0000590	0	0.54054E-02	651064.9	4191077.3	7.9	4.00	3.40	3.16	NO	
L0000591	0	0.54054E-02	651064.2	4191070.1	7.9	4.00	3.40	3.16	NO	
L0000592	0	0.54054E-02	651063.6	4191062.8	7.9	4.00	3.40	3.16	NO	
L0000593	0	0.54054E-02	651062.9	4191055.5	7.9	4.00	3.40	3.16	NO	
L0000594	0	0.54054E-02	651062.2	4191048.2	7.9	4.00	3.40	3.16	NO	
L0000595	0	0.54054E-02	651061.6	4191040.9	7.9	4.00	3.40	3.16	NO	
L0000596	0	0.54054E-02	651060.9	4191033.6	7.9	4.00	3.40	3.16	NO	
L0000597	0	0.54054E-02	651060.2	4191026.3	7.9	4.00	3.40	3.16	NO	
L0000598	0	0.54054E-02	651059.6	4191019.1	7.9	4.00	3.40	3.16	NO	
L0000599	0	0.54054E-02	651058.9	4191011.8	7.9	4.00	3.40	3.16	NO	
L0000600	0	0.54054E-02	651058.3	4191004.5	7.9	4.00	3.40	3.16	NO	

*** MODELOPTs: NonDFAULT CONC FLAT RURAL 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
L0000601	0	0.54054E-02	651057.6	4190997.2	7.9	4.00	3.40	3.16	NO	
L0000602	0	0.54054E-02	651056.9	4190989.9	7.9	4.00	3.40	3.16	NO	
L0000603	0	0.54054E-02	651056.3	4190982.6	7.9	4.00	3.40	3.16	NO	
L0000604	0	0.54054E-02	651055.6	4190975.3	7.9	4.00	3.40	3.16	NO	
L0000605	0	0.54054E-02	651054.9	4190968.1	7.9	4.00	3.40	3.16	NO	
L0000606	0	0.54054E-02	651054.3	4190960.8	7.9	4.00	3.40	3.16	NO	
L0000607	0	0.54054E-02	651053.6	4190953.5	7.9	4.00	3.40	3.16	NO	
L0000608	0	0.54054E-02	651052.9	4190946.2	7.9	4.00	3.40	3.16	NO	
L0000609	0	0.54054E-02	651052.3	4190938.9	7.9	4.00	3.40	3.16	NO	
L0000610	0	0.54054E-02	651051.6	4190931.6	7.9	4.00	3.40	3.16	NO	
L0000611	0	0.54054E-02	651050.9	4190924.4	7.9	4.00	3.40	3.16	NO	
L0000612	0	0.54054E-02	651050.3	4190917.1	7.9	4.00	3.40	3.16	NO	
L0000613	0	0.54054E-02	651049.6	4190909.8	7.9	4.00	3.40	3.16	NO	
L0000614	0	0.54054E-02	651048.9	4190902.5	7.9	4.00	3.40	3.16	NO	
L0000615	0	0.54054E-02	651048.3	4190895.2	7.9	4.00	3.40	3.16	NO	
L0000616	0	0.54054E-02	651047.6	4190887.9	7.9	4.00	3.40	3.16	NO	
L0000617	0	0.54054E-02	651046.9	4190880.6	7.9	4.00	3.40	3.16	NO	
L0000618	0	0.54054E-02	651046.3	4190873.4	7.9	4.00	3.40	3.16	NO	
L0000619	0	0.54054E-02	651045.6	4190866.1	7.9	4.00	3.40	3.16	NO	
L0000620	0	0.54054E-02	651044.9	4190858.8	7.9	4.00	3.40	3.16	NO	
L0000621	0	0.54054E-02	651044.3	4190851.5	7.9	4.00	3.40	3.16	NO	
L0000622	0	0.54054E-02	651043.6	4190844.2	7.9	4.00	3.40	3.16	NO	
L0000623	0	0.54054E-02	651042.9	4190836.9	7.9	4.00	3.40	3.16	NO	
L0000624	0	0.54054E-02	651042.3	4190829.7	7.9	4.00	3.40	3.16	NO	
L0000625	0	0.54054E-02	651041.6	4190822.4	7.9	4.00	3.40	3.16	NO	
L0000626	0	0.54054E-02	651040.9	4190815.1	7.9	4.00	3.40	3.16	NO	
L0000627	0	0.54054E-02	651040.3	4190807.8	7.9	4.00	3.40	3.16	NO	
L0000628	0	0.54054E-02	651039.6	4190800.5	7.9	4.00	3.40	3.16	NO	
L0000629	0	0.54054E-02	651038.9	4190793.2	7.9	4.00	3.40	3.16	NO	
L0000630	0	0.54054E-02	651038.3	4190785.9	7.9	4.00	3.40	3.16	NO	
L0000631	0	0.54054E-02	651037.6	4190778.7	7.9	4.00	3.40	3.16	NO	
L0000632	0	0.54054E-02	651036.9	4190771.4	7.9	4.00	3.40	3.16	NO	
L0000633	0	0.54054E-02	651036.3	4190764.1	7.9	4.00	3.40	3.16	NO	
L0000634	0	0.54054E-02	651035.6	4190756.8	7.9	4.00	3.40	3.16	NO	
L0000635	0	0.54054E-02	651034.9	4190749.5	7.9	4.00	3.40	3.16	NO	
L0000636	0	0.54054E-02	651034.3	4190742.2	7.9	4.00	3.40	3.16	NO	
L0000637	0	0.54054E-02	651033.6	4190735.0	7.9	4.00	3.40	3.16	NO	
L0000638	0	0.54054E-02	651032.5	4190727.7	7.9	4.00	3.40	3.16	NO	
L0000639	0	0.54054E-02	651031.2	4190720.5	7.9	4.00	3.40	3.16	NO	
L0000640	0	0.54054E-02	651030.0	4190713.3	7.9	4.00	3.40	3.16	NO	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	BASE Y (METERS)	RELEASE ELEV. (METERS)	INIT. HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000641	0	0.54054E-02	651028.8	4190706.1	7.9	4.00	3.40	3.16	NO	
L0000642	0	0.54054E-02	651027.5	4190698.9	7.9	4.00	3.40	3.16	NO	
L0000643	0	0.54054E-02	651026.3	4190691.7	7.9	4.00	3.40	3.16	NO	
L0000644	0	0.54054E-02	651025.1	4190684.5	7.9	4.00	3.40	3.16	NO	
L0000645	0	0.54054E-02	651023.8	4190677.3	7.9	4.00	3.40	3.16	NO	
L0000646	0	0.54054E-02	651022.6	4190670.0	7.9	4.00	3.40	3.16	NO	
L0000647	0	0.54054E-02	651021.4	4190662.8	7.9	4.00	3.40	3.16	NO	
L0000648	0	0.54054E-02	651020.1	4190655.6	7.9	4.00	3.40	3.16	NO	
L0000649	0	0.54054E-02	651018.9	4190648.4	7.9	4.00	3.40	3.16	NO	
L0000650	0	0.54054E-02	651017.7	4190641.2	7.9	4.00	3.40	3.16	NO	
L0000651	0	0.54054E-02	651016.4	4190634.0	7.9	4.00	3.40	3.16	NO	
L0000652	0	0.54054E-02	651015.2	4190626.8	7.9	4.00	3.40	3.16	NO	
L0000653	0	0.54054E-02	651014.0	4190619.6	7.9	4.00	3.40	3.16	NO	
L0000654	0	0.54054E-02	651012.7	4190612.4	7.9	4.00	3.40	3.16	NO	
L0000655	0	0.54054E-02	651011.5	4190605.1	7.9	4.00	3.40	3.16	NO	
L0000656	0	0.54054E-02	651010.3	4190597.9	7.9	4.00	3.40	3.16	NO	
L0000657	0	0.54054E-02	651009.0	4190590.7	7.9	4.00	3.40	3.16	NO	
L0000658	0	0.54054E-02	651007.8	4190583.5	7.9	4.00	3.40	3.16	NO	
L0000659	0	0.54054E-02	651006.6	4190576.3	7.9	4.00	3.40	3.16	NO	
L0000660	0	0.54054E-02	651005.3	4190569.1	7.9	4.00	3.40	3.16	NO	
L0000661	0	0.54054E-02	651004.1	4190561.9	7.9	4.00	3.40	3.16	NO	
L0000662	0	0.54054E-02	651002.9	4190554.7	7.9	4.00	3.40	3.16	NO	
L0000663	0	0.54054E-02	651001.6	4190547.5	7.9	4.00	3.40	3.16	NO	
L0000664	0	0.54054E-02	651000.4	4190540.3	7.9	4.00	3.40	3.16	NO	
L0000665	0	0.54054E-02	650999.2	4190533.0	7.9	4.00	3.40	3.16	NO	
L0000666	0	0.54054E-02	650997.9	4190525.8	7.9	4.00	3.40	3.16	NO	
L0000667	0	0.54054E-02	650996.7	4190518.6	7.9	4.00	3.40	3.16	NO	
L0000668	0	0.54054E-02	650995.5	4190511.4	7.9	4.00	3.40	3.16	NO	
L0000669	0	0.54054E-02	650994.2	4190504.2	7.9	4.00	3.40	3.16	NO	
L0000670	0	0.54054E-02	650993.0	4190497.0	7.9	4.00	3.40	3.16	NO	
L0000671	0	0.54054E-02	650991.8	4190489.8	7.9	4.00	3.40	3.16	NO	
L0000672	0	0.54054E-02	650990.5	4190482.6	7.9	4.00	3.40	3.16	NO	
L0000673	0	0.54054E-02	650989.3	4190475.4	7.9	4.00	3.40	3.16	NO	
L0000674	0	0.54054E-02	650988.1	4190468.1	7.9	4.00	3.40	3.16	NO	
L0000675	0	0.54054E-02	650986.9	4190460.9	7.9	4.00	3.40	3.16	NO	
L0000676	0	0.54054E-02	650985.6	4190453.7	7.9	4.00	3.40	3.16	NO	
L0000677	0	0.54054E-02	650984.4	4190446.5	7.9	4.00	3.40	3.16	NO	
L0000678	0	0.54054E-02	650983.2	4190439.3	7.9	4.00	3.40	3.16	NO	
L0000679	0	0.54054E-02	650981.9	4190432.1	7.9	4.00	3.40	3.16	NO	
L0000680	0	0.54054E-02	650980.7	4190424.9	7.9	4.00	3.40	3.16	NO	

*** 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
L0000681	0	0.54054E-02	650979.5	4190417.7	7.9	4.00	3.40	3.16	NO	
L0000682	0	0.54054E-02	650978.2	4190410.5	7.9	4.00	3.40	3.16	NO	
L0000683	0	0.54054E-02	650977.0	4190403.3	7.9	4.00	3.40	3.16	NO	
L0000684	0	0.54054E-02	650975.8	4190396.0	7.9	4.00	3.40	3.16	NO	
L0000685	0	0.54054E-02	650974.5	4190388.8	7.9	4.00	3.40	3.16	NO	
L0000686	0	0.54054E-02	650973.3	4190381.6	7.9	4.00	3.40	3.16	NO	
L0000687	0	0.54054E-02	650972.1	4190374.4	7.9	4.00	3.40	3.16	NO	
L0000688	0	0.54054E-02	650970.8	4190367.2	7.9	4.00	3.40	3.16	NO	
L0000689	0	0.54054E-02	650969.6	4190360.0	7.9	4.00	3.40	3.16	NO	
L0000690	0	0.54054E-02	650968.4	4190352.8	7.9	4.00	3.40	3.16	NO	
L0000691	0	0.54054E-02	650967.1	4190345.6	7.9	4.00	3.40	3.16	NO	
L0000692	0	0.54054E-02	650965.9	4190338.4	7.9	4.00	3.40	3.16	NO	
L0000693	0	0.54054E-02	650964.7	4190331.1	7.9	4.00	3.40	3.16	NO	
L0000694	0	0.54054E-02	650963.4	4190323.9	7.9	4.00	3.40	3.16	NO	
L0000695	0	0.54054E-02	650962.2	4190316.7	7.9	4.00	3.40	3.16	NO	
L0000696	0	0.54054E-02	650961.0	4190309.5	7.9	4.00	3.40	3.16	NO	
L0000697	0	0.54054E-02	650959.7	4190302.3	7.9	4.00	3.40	3.16	NO	
L0000698	0	0.54054E-02	650958.5	4190295.1	7.9	4.00	3.40	3.16	NO	
L0000699	0	0.54054E-02	650957.3	4190287.9	7.9	4.00	3.40	3.16	NO	
L0000700	0	0.54054E-02	650956.0	4190280.7	7.9	4.00	3.40	3.16	NO	
L0000701	0	0.54054E-02	650954.8	4190273.5	7.9	4.00	3.40	3.16	NO	
L0000702	0	0.54054E-02	650953.6	4190266.3	7.9	4.00	3.40	3.16	NO	
L0000703	0	0.54054E-02	650952.3	4190259.0	7.9	4.00	3.40	3.16	NO	
L0000704	0	0.54054E-02	650951.1	4190251.8	7.9	4.00	3.40	3.16	NO	
L0000705	0	0.54054E-02	650949.9	4190244.6	7.9	4.00	3.40	3.16	NO	
L0000706	0	0.54054E-02	650948.6	4190237.4	7.9	4.00	3.40	3.16	NO	
L0000707	0	0.54054E-02	650947.4	4190230.2	7.9	4.00	3.40	3.16	NO	
L0000708	0	0.54054E-02	650946.2	4190223.0	7.9	4.00	3.40	3.16	NO	
L0000709	0	0.54054E-02	650944.9	4190215.8	7.9	4.00	3.40	3.16	NO	
L0000710	0	0.54054E-02	650943.7	4190208.6	7.9	4.00	3.40	3.16	NO	
L0000711	0	0.54054E-02	650942.5	4190201.4	7.9	4.00	3.40	3.16	NO	
L0000712	0	0.54054E-02	650941.2	4190194.1	7.9	4.00	3.40	3.16	NO	
L0000713	0	0.54054E-02	650940.0	4190186.9	7.9	4.00	3.40	3.16	NO	
L0000714	0	0.54054E-02	650938.8	4190179.7	7.9	4.00	3.40	3.16	NO	
L0000715	0	0.54054E-02	650937.5	4190172.5	7.9	4.00	3.40	3.16	NO	
L0000716	0	0.54054E-02	650936.3	4190165.3	7.9	4.00	3.40	3.16	NO	
L0000717	0	0.54054E-02	650935.1	4190158.1	7.9	4.00	3.40	3.16	NO	
L0000718	0	0.54054E-02	650933.8	4190150.9	7.9	4.00	3.40	3.16	NO	
L0000719	0	0.54054E-02	650932.6	4190143.7	7.9	4.00	3.40	3.16	NO	
L0000720	0	0.54054E-02	650931.4	4190136.5	7.9	4.00	3.40	3.16	NO	

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000721	0	0.54054E-02	650930.1	4190129.2	7.9	4.00	3.40	3.16	NO	
L0000722	0	0.54054E-02	650928.9	4190122.0	7.9	4.00	3.40	3.16	NO	
L0000723	0	0.54054E-02	650927.7	4190114.8	7.9	4.00	3.40	3.16	NO	
L0000724	0	0.54054E-02	650926.5	4190107.6	7.9	4.00	3.40	3.16	NO	
L0000725	0	0.54054E-02	650925.2	4190100.4	7.9	4.00	3.40	3.16	NO	
L0000726	0	0.54054E-02	650924.0	4190093.2	7.9	4.00	3.40	3.16	NO	
L0000727	0	0.54054E-02	650922.8	4190086.0	7.9	4.00	3.40	3.16	NO	
L0000728	0	0.54054E-02	650921.5	4190078.8	7.9	4.00	3.40	3.16	NO	
L0000729	0	0.54054E-02	650920.3	4190071.6	7.9	4.00	3.40	3.16	NO	
L0000730	0	0.13699E-01	651000.8	4191012.8	7.9	4.00	3.40	3.16	NO	
L0000731	0	0.13699E-01	650993.5	4191012.8	7.9	4.00	3.40	3.16	NO	
L0000732	0	0.13699E-01	650986.2	4191012.8	7.9	4.00	3.40	3.16	NO	
L0000733	0	0.13699E-01	650978.9	4191012.7	7.9	4.00	3.40	3.16	NO	
L0000734	0	0.13699E-01	650971.6	4191012.7	7.9	4.00	3.40	3.16	NO	
L0000735	0	0.13699E-01	650964.2	4191012.6	7.9	4.00	3.40	3.16	NO	
L0000736	0	0.13699E-01	650956.9	4191012.6	7.9	4.00	3.40	3.16	NO	
L0000737	0	0.13699E-01	650949.6	4191012.6	7.9	4.00	3.40	3.16	NO	
L0000738	0	0.13699E-01	650942.3	4191012.5	7.9	4.00	3.40	3.16	NO	
L0000739	0	0.13699E-01	650935.0	4191012.5	7.9	4.00	3.40	3.16	NO	
L0000740	0	0.13699E-01	650927.7	4191012.4	7.9	4.00	3.40	3.16	NO	
L0000741	0	0.13699E-01	650920.3	4191012.4	7.9	4.00	3.40	3.16	NO	
L0000742	0	0.13699E-01	650914.3	4191013.7	7.9	4.00	3.40	3.16	NO	
L0000743	0	0.13699E-01	650913.9	4191021.0	7.9	4.00	3.40	3.16	NO	
L0000744	0	0.13699E-01	650913.5	4191028.3	7.9	4.00	3.40	3.16	NO	
L0000745	0	0.13699E-01	650913.2	4191035.6	7.9	4.00	3.40	3.16	NO	
L0000746	0	0.13699E-01	650912.8	4191042.9	7.9	4.00	3.40	3.16	NO	
L0000747	0	0.13699E-01	650912.4	4191050.2	7.9	4.00	3.40	3.16	NO	
L0000748	0	0.13699E-01	650912.1	4191057.5	7.9	4.00	3.40	3.16	NO	
L0000749	0	0.13699E-01	650911.7	4191064.8	7.9	4.00	3.40	3.16	NO	
L0000750	0	0.13699E-01	650911.4	4191072.1	7.9	4.00	3.40	3.16	NO	
L0000751	0	0.13699E-01	650911.0	4191079.4	7.9	4.00	3.40	3.16	NO	
L0000752	0	0.13699E-01	650910.6	4191086.7	7.9	4.00	3.40	3.16	NO	
L0000753	0	0.13699E-01	650910.3	4191094.0	7.9	4.00	3.40	3.16	NO	
L0000754	0	0.13699E-01	650909.8	4191101.2	7.9	4.00	3.40	3.16	NO	
L0000755	0	0.13699E-01	650902.4	4191101.0	7.9	4.00	3.40	3.16	NO	
L0000756	0	0.13699E-01	650895.1	4191100.9	7.9	4.00	3.40	3.16	NO	
L0000757	0	0.13699E-01	650887.8	4191100.7	7.9	4.00	3.40	3.16	NO	
L0000758	0	0.13699E-01	650880.5	4191100.6	7.9	4.00	3.40	3.16	NO	
L0000759	0	0.13699E-01	650873.2	4191100.4	7.9	4.00	3.40	3.16	NO	
L0000760	0	0.13699E-01	650865.9	4191100.3	7.9	4.00	3.40	3.16	NO	

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000761	0	0.13699E-01	650858.6	4191100.1	7.9	4.00	3.40	3.16	NO	
L0000762	0	0.13699E-01	650851.2	4191100.0	7.9	4.00	3.40	3.16	NO	
L0000763	0	0.13699E-01	650843.9	4191099.9	7.9	4.00	3.40	3.16	NO	
L0000764	0	0.13699E-01	650836.6	4191099.7	7.9	4.00	3.40	3.16	NO	
L0000765	0	0.13699E-01	650829.3	4191099.6	7.9	4.00	3.40	3.16	NO	
L0000766	0	0.13699E-01	650822.0	4191099.4	7.9	4.00	3.40	3.16	NO	
L0000767	0	0.13699E-01	650821.1	4191092.9	7.9	4.00	3.40	3.16	NO	
L0000768	0	0.13699E-01	650821.1	4191085.6	7.9	4.00	3.40	3.16	NO	
L0000769	0	0.13699E-01	650821.1	4191078.3	7.9	4.00	3.40	3.16	NO	
L0000770	0	0.13699E-01	650821.1	4191071.0	7.9	4.00	3.40	3.16	NO	
L0000771	0	0.13699E-01	650821.1	4191063.7	7.9	4.00	3.40	3.16	NO	
L0000772	0	0.13699E-01	650821.1	4191056.4	7.9	4.00	3.40	3.16	NO	
L0000773	0	0.13699E-01	650821.1	4191049.1	7.9	4.00	3.40	3.16	NO	
L0000774	0	0.13699E-01	650821.1	4191041.7	7.9	4.00	3.40	3.16	NO	
L0000775	0	0.13699E-01	650821.1	4191034.4	7.9	4.00	3.40	3.16	NO	
L0000776	0	0.13699E-01	650821.1	4191027.1	7.9	4.00	3.40	3.16	NO	
L0000777	0	0.13699E-01	650821.1	4191019.8	7.9	4.00	3.40	3.16	NO	
L0000778	0	0.13699E-01	650826.3	4191017.4	7.9	4.00	3.40	3.16	NO	
L0000779	0	0.13699E-01	650833.6	4191017.2	7.9	4.00	3.40	3.16	NO	
L0000780	0	0.13699E-01	650840.9	4191016.9	7.9	4.00	3.40	3.16	NO	
L0000781	0	0.13699E-01	650848.2	4191016.6	7.9	4.00	3.40	3.16	NO	
L0000782	0	0.13699E-01	650855.5	4191016.3	7.9	4.00	3.40	3.16	NO	
L0000783	0	0.13699E-01	650862.8	4191016.0	7.9	4.00	3.40	3.16	NO	
L0000784	0	0.13699E-01	650870.1	4191015.8	7.9	4.00	3.40	3.16	NO	
L0000785	0	0.13699E-01	650877.5	4191015.5	7.9	4.00	3.40	3.16	NO	
L0000786	0	0.13699E-01	650884.8	4191015.2	7.9	4.00	3.40	3.16	NO	
L0000787	0	0.13699E-01	650892.1	4191014.9	7.9	4.00	3.40	3.16	NO	
L0000788	0	0.13699E-01	650899.4	4191014.6	7.9	4.00	3.40	3.16	NO	
L0000789	0	0.13699E-01	650906.7	4191014.4	7.9	4.00	3.40	3.16	NO	
L0000790	0	0.13699E-01	650912.7	4191012.7	7.9	4.00	3.40	3.16	NO	
L0000791	0	0.13699E-01	650918.3	4191010.8	7.9	4.00	3.40	3.16	NO	
L0000792	0	0.13699E-01	650925.6	4191010.9	7.9	4.00	3.40	3.16	NO	
L0000793	0	0.13699E-01	650932.9	4191011.0	7.9	4.00	3.40	3.16	NO	
L0000794	0	0.13699E-01	650940.2	4191011.2	7.9	4.00	3.40	3.16	NO	
L0000795	0	0.13699E-01	650947.5	4191011.3	7.9	4.00	3.40	3.16	NO	
L0000796	0	0.13699E-01	650954.9	4191011.4	7.9	4.00	3.40	3.16	NO	
L0000797	0	0.13699E-01	650962.2	4191011.5	7.9	4.00	3.40	3.16	NO	
L0000798	0	0.13699E-01	650969.5	4191011.6	7.9	4.00	3.40	3.16	NO	
L0000799	0	0.13699E-01	650976.8	4191011.8	7.9	4.00	3.40	3.16	NO	
L0000800	0	0.13699E-01	650984.1	4191011.9	7.9	4.00	3.40	3.16	NO	

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	BASE X (METERS)	Y (METERS)	ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY

ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0000801	0	0.13699E-01	650991.4	4191012.0	7.9	4.00	3.40	3.16	NO
L0000802	0	0.13699E-01	650998.7	4191012.1	7.9	4.00	3.40	3.16	NO
VOL1	0	0.10000E+01	650834.3	4191056.5	7.9	4.00	1.16	0.00	NO
VOL2	0	0.10000E+01	650804.3	4191056.5	7.9	4.00	1.16	0.00	NO
VOL3	0	0.10000E+01	650834.3	4191116.5	7.9	4.00	1.16	0.00	NO
VOL4	0	0.10000E+01	650834.3	4190996.5	7.9	4.00	1.16	0.00	NO
VOL5	0	0.10000E+01	650874.3	4191116.5	7.9	4.00	1.16	0.00	NO
VOL6	0	0.10000E+01	650874.3	4191006.5	7.9	4.00	1.16	0.00	NO
VOL7	0	0.10000E+01	650914.3	4191006.5	7.9	4.00	1.16	0.00	NO
VOL8	0	0.10000E+01	650955.2	4191091.8	7.9	4.00	1.95	1.86	NO

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
SLINE1	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 , L0000108 , L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 , L0000116 , L0000117 , L0000118 , L0000119 , L0000120 ,

L0000121 , L0000122 , L0000123 , L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,

L0000129 , L0000130 , L0000131 , L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,

L0000137 , L0000138 , L0000139 , L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,

L0000145 , L0000146 , L0000147 , L0000148 , L0000149 , L0000150 , L0000151 , L0000152 ,

L0000153 , L0000154 , L0000155 , L0000156 , L0000157 , L0000158 , L0000159 , L0000160 ,

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 ,

L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 ,

SLINE2 L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 ,

L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 ,

L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 ,

L0000199 , L0000200 , L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 ,

L0000207 , L0000208 , L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 ,

L0000215 , L0000216 , L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 ,

L0000223 , L0000224 , L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 ,

L0000231 , L0000232 , L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 ,

L0000239 , L0000240 , L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 ,

L0000247 , L0000248 , L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 ,

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L0000271 , L0000272 , L0000273 , L0000274 , L0000275 , L0000276 , L0000277 , L0000278 ,

L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 , L0000285 , L0000286 ,

L0000287 , L0000288 , L0000289 , L0000290 , L0000291 , L0000292 , L0000293 , L0000294 ,

L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 , L0000301 , L0000302 ,

L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 , L0000309 , L0000310 ,

L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 , L0000317 , L0000318 ,

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 , L0000325 , L0000326 ,

L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 , L0000333 ,

SLINE3 L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 ,

L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 ,

L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 ,

L0000358 , L0000359 , L0000360 , L0000361 , L0000362 , L0000363 , L0000364 , L0000365 ,

L0000366 , L0000367 , L0000368 , L0000369 , L0000370 , L0000371 , L0000372 , L0000373 ,

L0000374 , L0000375 , L0000376 , L0000377 , L0000378 , L0000379 , L0000380 , L0000381 ,

L0000382 , L0000383 , L0000384 , L0000385 , L0000386 , L0000387 , L0000388 , L0000389 ,

L0000390 , L0000391 , L0000392 , L0000393 , L0000394 , L0000395 , L0000396 , L0000397 ,

L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 ,

L0000406 , L0000407 , L0000408 , L0000409 , L0000410 , L0000411 , L0000412 , L0000413 ,

L0000414 , L0000415 , L0000416 , L0000417 , L0000418 , L0000419 , L0000420 , L0000421 ,

L0000422 , L0000423 , L0000424 , L0000425 , L0000426 , L0000427 , L0000428 , L0000429 ,

L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 , L0000436 , L0000437 ,

L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 , L0000444 , L0000445 ,

L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , L0000451 , L0000452 , L0000453 ,

L0000454 , L0000455 , L0000456 , L0000457 , L0000458 , L0000459 , L0000460 , L0000461 ,

L0000462 , L0000463 , L0000464 , L0000465 , L0000466 , L0000467 , L0000468 , L0000469 ,

L0000470 , L0000471 , L0000472 , L0000473 , L0000474 , L0000475 , L0000476 , L0000477 ,

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0000478 , L0000479 , L0000480 , L0000481 , L0000482 , L0000483 , L0000484 , L0000485 ,
L0000486 , L0000487 , L0000488 , L0000489 , L0000490 , L0000491 , L0000492 , L0000493 ,
L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 , L0000501 ,
L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 , L0000509 ,
L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 , L0000517 ,
L0000518 , L0000519 , L0000520 , L0000521 , L0000522 , L0000523 , L0000524 , L0000525 ,
L0000526 , L0000527 , L0000528 , L0000529 , L0000530 , L0000531 , L0000532 , L0000533 ,
L0000534 , L0000535 , L0000536 , L0000537 , L0000538 , L0000539 , L0000540 , L0000541 ,
L0000542 , L0000543 , L0000544 ,

SLINE4 L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 ,
L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 ,
L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 ,
L0000569 , L0000570 , L0000571 , L0000572 , L0000573 , L0000574 , L0000575 , L0000576 ,
L0000577 , L0000578 , L0000579 , L0000580 , L0000581 , L0000582 , L0000583 , L0000584 ,
L0000585 , L0000586 , L0000587 , L0000588 , L0000589 , L0000590 , L0000591 , L0000592 ,
L0000593 , L0000594 , L0000595 , L0000596 , L0000597 , L0000598 , L0000599 , L0000600 ,
L0000601 , L0000602 , L0000603 , L0000604 , L0000605 , L0000606 , L0000607 , L0000608 ,
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L0000617 , L0000618 , L0000619 , L0000620 , L0000621 , L0000622 , L0000623 , L0000624 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs
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L0000697 , L0000698 , L0000699 , L0000700 , L0000701 , L0000702 , L0000703 , L0000704 ,
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L0000713 , L0000714 , L0000715 , L0000716 , L0000717 , L0000718 , L0000719 , L0000720 ,
L0000721 , L0000722 , L0000723 , L0000724 , L0000725 , L0000726 , L0000727 , L0000728 ,
L0000729 ,

SLINE5 L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 ,
L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 ,
L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 ,
L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000786 , L0000787 , L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 , L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , L0000802 ,
STCK1	STCK1 ,
STCK2	STCK2 ,
STCK3	STCK3 ,
STCK4	STCK4 ,
STCK5	STCK5 ,
STCK6	STCK6 ,
VOL1	VOL1 ,
VOL2	VOL2 ,
VOL3	VOL3 ,
VOL4	VOL4 ,
VOL5	VOL5 ,
VOL6	VOL6 ,
VOL7	VOL7 ,
VOL8	VOL8 ,

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	650334.3,	4190556.5,	7.9,	7.9,	0.0);	(650384.3,	4190556.5,	7.9,	7.9,	0.0);
(	650434.3,	4190556.5,	7.9,	7.9,	0.0);	(650484.3,	4190556.5,	7.9,	7.9,	0.0);
(	650534.3,	4190556.5,	7.9,	7.9,	0.0);	(650584.3,	4190556.5,	7.9,	7.9,	0.0);
(	650634.3,	4190556.5,	7.9,	7.9,	0.0);	(650684.3,	4190556.5,	7.9,	7.9,	0.0);
(	650734.3,	4190556.5,	7.9,	7.9,	0.0);	(650784.3,	4190556.5,	7.9,	7.9,	0.0);
(	650834.3,	4190556.5,	7.9,	7.9,	0.0);	(650884.3,	4190556.5,	7.9,	7.9,	0.0);
(	650934.3,	4190556.5,	7.9,	7.9,	0.0);	(650984.3,	4190556.5,	7.9,	7.9,	0.0);

(651034.3, 4190556.5, 7.9, 7.9, 0.0); (651084.3, 4190556.5, 7.9, 7.9, 0.0);
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(650384.3, 4190606.5, 7.9, 7.9, 0.0); (650434.3, 4190606.5, 7.9, 7.9, 0.0);
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(650434.3, 4190656.5, 7.9, 7.9, 0.0); (650484.3, 4190656.5, 7.9, 7.9, 0.0);
(650534.3, 4190656.5, 7.9, 7.9, 0.0); (650584.3, 4190656.5, 7.9, 7.9, 0.0);
(650634.3, 4190656.5, 7.9, 7.9, 0.0); (650684.3, 4190656.5, 7.9, 7.9, 0.0);
(650734.3, 4190656.5, 7.9, 7.9, 0.0); (650784.3, 4190656.5, 7.9, 7.9, 0.0);
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(651034.3, 4190656.5, 7.9, 7.9, 0.0); (651084.3, 4190656.5, 7.9, 7.9, 0.0);
(651134.3, 4190656.5, 7.9, 7.9, 0.0); (651184.3, 4190656.5, 7.9, 7.9, 0.0);
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(650384.3, 4190706.5, 7.9, 7.9, 0.0); (650434.3, 4190706.5, 7.9, 7.9, 0.0);
(650484.3, 4190706.5, 7.9, 7.9, 0.0); (650534.3, 4190706.5, 7.9, 7.9, 0.0);
(650584.3, 4190706.5, 7.9, 7.9, 0.0); (650634.3, 4190706.5, 7.9, 7.9, 0.0);
(650684.3, 4190706.5, 7.9, 7.9, 0.0); (650734.3, 4190706.5, 7.9, 7.9, 0.0);
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(650884.3, 4190706.5, 7.9, 7.9, 0.0); (650934.3, 4190706.5, 7.9, 7.9, 0.0);
(650984.3, 4190706.5, 7.9, 7.9, 0.0); (651034.3, 4190706.5, 7.9, 7.9, 0.0);
(651084.3, 4190706.5, 7.9, 7.9, 0.0); (651134.3, 4190706.5, 7.9, 7.9, 0.0);
(651184.3, 4190706.5, 7.9, 7.9, 0.0); (651234.3, 4190706.5, 7.9, 7.9, 0.0);
(651284.3, 4190706.5, 7.9, 7.9, 0.0); (651334.3, 4190706.5, 7.9, 7.9, 0.0);
(650334.3, 4190756.5, 7.9, 7.9, 0.0); (650384.3, 4190756.5, 7.9, 7.9, 0.0);
(650434.3, 4190756.5, 7.9, 7.9, 0.0); (650484.3, 4190756.5, 7.9, 7.9, 0.0);
(650534.3, 4190756.5, 7.9, 7.9, 0.0); (650584.3, 4190756.5, 7.9, 7.9, 0.0);

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(650634.3, 4190756.5, 7.9, 7.9, 0.0); (650684.3, 4190756.5, 7.9, 7.9, 0.0);
(650734.3, 4190756.5, 7.9, 7.9, 0.0); (650784.3, 4190756.5, 7.9, 7.9, 0.0);
(650834.3, 4190756.5, 7.9, 7.9, 0.0); (650884.3, 4190756.5, 7.9, 7.9, 0.0);
(650934.3, 4190756.5, 7.9, 7.9, 0.0); (650984.3, 4190756.5, 7.9, 7.9, 0.0);
(651034.3, 4190756.5, 7.9, 7.9, 0.0); (651084.3, 4190756.5, 7.9, 7.9, 0.0);
(651134.3, 4190756.5, 7.9, 7.9, 0.0); (651184.3, 4190756.5, 7.9, 7.9, 0.0);
(651234.3, 4190756.5, 7.9, 7.9, 0.0); (651284.3, 4190756.5, 7.9, 7.9, 0.0);
(651334.3, 4190756.5, 7.9, 7.9, 0.0); (650334.3, 4190806.5, 7.9, 7.9, 0.0);

(650384.3, 4190806.5, 7.9, 7.9, 0.0); (650434.3, 4190806.5, 7.9, 7.9, 0.0);
(650484.3, 4190806.5, 7.9, 7.9, 0.0); (650534.3, 4190806.5, 7.9, 7.9, 0.0);
(650584.3, 4190806.5, 7.9, 7.9, 0.0); (650634.3, 4190806.5, 7.9, 7.9, 0.0);
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(650784.3, 4190806.5, 7.9, 7.9, 0.0); (650834.3, 4190806.5, 7.9, 7.9, 0.0);
(650884.3, 4190806.5, 7.9, 7.9, 0.0); (650934.3, 4190806.5, 7.9, 7.9, 0.0);
(650984.3, 4190806.5, 7.9, 7.9, 0.0); (651034.3, 4190806.5, 7.9, 7.9, 0.0);
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(651284.3, 4190806.5, 7.9, 7.9, 0.0); (651334.3, 4190806.5, 7.9, 7.9, 0.0);
(650334.3, 4190856.5, 7.9, 7.9, 0.0); (650384.3, 4190856.5, 7.9, 7.9, 0.0);
(650434.3, 4190856.5, 7.9, 7.9, 0.0); (650484.3, 4190856.5, 7.9, 7.9, 0.0);
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(650734.3, 4190856.5, 7.9, 7.9, 0.0); (650784.3, 4190856.5, 7.9, 7.9, 0.0);
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(650934.3, 4190856.5, 7.9, 7.9, 0.0); (650984.3, 4190856.5, 7.9, 7.9, 0.0);
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(651134.3, 4190856.5, 7.9, 7.9, 0.0); (651184.3, 4190856.5, 7.9, 7.9, 0.0);
(651234.3, 4190856.5, 7.9, 7.9, 0.0); (651284.3, 4190856.5, 7.9, 7.9, 0.0);
(651334.3, 4190856.5, 7.9, 7.9, 0.0); (650334.3, 4190906.5, 7.9, 7.9, 0.0);
(650384.3, 4190906.5, 7.9, 7.9, 0.0); (650434.3, 4190906.5, 7.9, 7.9, 0.0);
(650484.3, 4190906.5, 7.9, 7.9, 0.0); (650534.3, 4190906.5, 7.9, 7.9, 0.0);
(650584.3, 4190906.5, 7.9, 7.9, 0.0); (650634.3, 4190906.5, 7.9, 7.9, 0.0);
(650684.3, 4190906.5, 7.9, 7.9, 0.0); (650734.3, 4190906.5, 7.9, 7.9, 0.0);
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(650884.3, 4190906.5, 7.9, 7.9, 0.0); (650934.3, 4190906.5, 7.9, 7.9, 0.0);
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(650334.3, 4190956.5, 7.9, 7.9, 0.0); (650384.3, 4190956.5, 7.9, 7.9, 0.0);
(650434.3, 4190956.5, 7.9, 7.9, 0.0); (650484.3, 4190956.5, 7.9, 7.9, 0.0);
(650534.3, 4190956.5, 7.9, 7.9, 0.0); (650584.3, 4190956.5, 7.9, 7.9, 0.0);
(650634.3, 4190956.5, 7.9, 7.9, 0.0); (650684.3, 4190956.5, 7.9, 7.9, 0.0);
(650734.3, 4190956.5, 7.9, 7.9, 0.0); (650784.3, 4190956.5, 7.9, 7.9, 0.0);
(650834.3, 4190956.5, 7.9, 7.9, 0.0); (650884.3, 4190956.5, 7.9, 7.9, 0.0);

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(650934.3, 4190956.5, 7.9, 7.9, 0.0); (650984.3, 4190956.5, 7.9, 7.9, 0.0);
(651034.3, 4190956.5, 7.9, 7.9, 0.0); (651084.3, 4190956.5, 7.9, 7.9, 0.0);
(651134.3, 4190956.5, 7.9, 7.9, 0.0); (651184.3, 4190956.5, 7.9, 7.9, 0.0);
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(650384.3, 4191106.5, 7.9, 7.9, 0.0); (650434.3, 4191106.5, 7.9, 7.9, 0.0);
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(650584.3, 4191106.5, 7.9, 7.9, 0.0); (650634.3, 4191106.5, 7.9, 7.9, 0.0);
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(650784.3, 4191106.5, 7.9, 7.9, 0.0); (650834.3, 4191106.5, 7.9, 7.9, 0.0);
(650884.3, 4191106.5, 7.9, 7.9, 0.0); (650934.3, 4191106.5, 7.9, 7.9, 0.0);
(650984.3, 4191106.5, 7.9, 7.9, 0.0); (651034.3, 4191106.5, 7.9, 7.9, 0.0);
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*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(651234.3, 4191156.5, 7.9, 7.9, 0.0); (651284.3, 4191156.5, 7.9, 7.9, 0.0);
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(650384.3, 4191306.5, 7.9, 7.9, 0.0); (650434.3, 4191306.5, 7.9, 7.9, 0.0);
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(650384.3, 4191406.5, 7.9, 7.9, 0.0); (650434.3, 4191406.5, 7.9, 7.9, 0.0);

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(650484.3, 4191406.5, 7.9, 7.9, 0.0); (650534.3, 4191406.5, 7.9, 7.9, 0.0);
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(650384.3, 4191506.5, 7.9, 7.9, 0.0); (650434.3, 4191506.5, 7.9, 7.9, 0.0);
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(650934.5, 4191240.5, 7.9, 7.9, 0.0); (651071.6, 4191520.0, 7.9, 7.9, 0.0);
(650517.2, 4191503.1, 7.9, 7.9, 0.0); (650941.6, 4190991.1, 7.9, 7.9, 0.0);
(650974.3, 4190903.6, 7.9, 7.9, 0.0); (650990.0, 4190868.3, 7.9, 7.9, 0.0);
(651153.8, 4190886.6, 7.9, 7.9, 0.0); (651170.4, 4190902.1, 7.9, 7.9, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(651162.7, 4190888.2, 7.9, 7.9, 0.0); (651241.5, 4191031.4, 7.9, 7.9, 0.0);
(650569.3, 4190797.2, 7.9, 7.9, 0.0); (650392.8, 4190782.2, 7.9, 7.9, 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 ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000020	650984.3	4191156.5	0.48
L0000104	651234.3	4191556.5	0.76
L0000267	651134.3	4191406.5	-0.39
L0000289	651084.3	4191256.5	0.37
L0000401	651034.3	4190556.5	-3.87
L0000402	651034.3	4190556.5	-1.15
L0000435	651084.3	4190806.5	0.97
L0000436	651084.3	4190806.5	-6.24
L0000437	651084.3	4190806.5	-0.93
L0000457	651134.3	4190956.5	-1.69
L0000458	651134.3	4190956.5	-4.96
L0000479	651184.3	4191106.5	-3.43
L0000480	651184.3	4191106.5	-1.81
L0000564	650984.3	4191156.5	-0.91
L0000565	650984.3	4191156.5	0.94
L0000627	651034.3	4190806.5	-1.22
L0000628	651034.3	4190806.5	0.64
L0000633	651034.3	4190756.5	0.56
L0000634	651034.3	4190756.5	-5.99
L0000635	651034.3	4190756.5	-0.34
L0000640	651034.3	4190706.5	0.80
L0000641	651034.3	4190706.5	-1.73
L0000732	650984.3	4191006.5	-0.74
L0000739	650934.3	4191006.5	-1.25
L0000757	650884.3	4191106.5	-0.60
L0000758	650884.3	4191106.5	-0.29
L0000764	650834.3	4191106.5	-0.18
L0000793	650934.3	4191006.5	-2.52
L0000794	650934.3	4191006.5	0.23
L0000800	650984.3	4191006.5	-1.88
VOL1	650834.3	4191056.5	-2.49
STCK3	650834.3	4191056.5	0.71

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 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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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 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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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: NonDFAULT CONC FLAT RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: AERMET\Stockton_2013-2017.SFC Met Version: 18081
Profile file: AERMET\Stockton_2013-2017.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23237 Upper air station no.: 23230
Name: STOCKTON Name: OAKLAND/WSO_AP
Year: 2013 Year: 2013

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
13	01	01	1	01	-22.0	0.211	-9.000	-9.000	-999.	232.	48.8	0.07	2.20	1.00	2.78	149.	10.0	273.8	2.0
13	01	01	1	02	-14.6	0.158	-9.000	-9.000	-999.	152.	27.6	0.04	2.20	1.00	2.37	77.	10.0	273.8	2.0
13	01	01	1	03	-18.4	0.181	-9.000	-9.000	-999.	185.	36.0	0.06	2.20	1.00	2.52	97.	10.0	273.1	2.0
13	01	01	1	04	-6.7	0.105	-9.000	-9.000	-999.	84.	16.0	0.04	2.20	1.00	1.63	349.	10.0	272.5	2.0
13	01	01	1	05	-20.1	0.193	-9.000	-9.000	-999.	203.	40.9	0.04	2.20	1.00	2.86	356.	10.0	274.2	2.0
13	01	01	1	06	-3.9	0.081	-9.000	-9.000	-999.	64.	12.6	0.04	2.20	1.00	1.23	77.	10.0	273.8	2.0
13	01	01	1	07	-18.3	0.180	-9.000	-9.000	-999.	184.	35.8	0.06	2.20	1.00	2.52	255.	10.0	273.1	2.0
13	01	01	1	08	-26.9	0.259	-9.000	-9.000	-999.	316.	73.8	0.08	2.20	0.73	3.29	287.	10.0	274.2	2.0
13	01	01	1	09	-1.9	0.212	-9.000	-9.000	-999.	236.	461.6	0.05	2.20	0.39	2.81	315.	10.0	275.9	2.0
13	01	01	1	10	61.1	0.155	0.630	0.005	150.	147.	-5.5	0.04	2.20	0.27	1.60	336.	10.0	277.5	2.0
13	01	01	1	11	110.2	0.238	1.137	0.005	488.	279.	-11.2	0.06	2.20	0.23	2.45	228.	10.0	279.9	2.0
13	01	01	1	12	137.1	0.276	1.492	0.008	886.	347.	-14.0	0.08	2.20	0.22	2.69	286.	10.0	280.4	2.0
13	01	01	1	13	141.1	0.271	1.531	0.007	929.	339.	-12.9	0.05	2.20	0.21	2.88	325.	10.0	282.5	2.0
13	01	01	1	14	121.3	0.232	1.475	0.006	965.	269.	-9.4	0.04	2.20	0.22	2.57	356.	10.0	283.8	2.0
13	01	01	1	15	78.7	0.218	1.287	0.005	988.	244.	-12.0	0.04	2.20	0.26	2.47	357.	10.0	284.2	2.0
13	01	01	1	16	17.6	0.265	0.783	0.005	993.	327.	-96.0	0.03	2.20	0.35	3.59	2.	10.0	284.2	2.0
13	01	01	1	17	-11.2	0.143	-9.000	-9.000	-999.	139.	24.1	0.04	2.20	0.60	2.16	346.	10.0	282.5	2.0
13	01	01	1	18	-8.7	0.125	-9.000	-9.000	-999.	107.	20.6	0.08	2.20	1.00	1.67	273.	10.0	279.2	2.0
13	01	01	1	19	-13.3	0.154	-9.000	-9.000	-999.	145.	26.0	0.06	2.20	1.00	2.15	238.	10.0	278.1	2.0
13	01	01	1	20	-10.2	0.134	-9.000	-9.000	-999.	117.	21.4	0.06	2.20	1.00	1.89	230.	10.0	275.9	2.0
13	01	01	1	21	-12.5	0.148	-9.000	-9.000	-999.	137.	24.2	0.05	2.20	1.00	2.11	300.	10.0	276.4	2.0
13	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.05	2.20	1.00	0.00	0.	10.0	275.9	2.0
13	01	01	1	23	-24.0	0.230	-9.000	-9.000	-999.	264.	57.9	0.04	2.20	1.00	3.36	80.	10.0	274.2	2.0
13	01	01	1	24	-16.1	0.169	-9.000	-9.000	-999.	167.	31.3	0.06	2.20	1.00	2.36	100.	10.0	274.2	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV

13 01 01 01 10.0 1 149. 2.78 273.8 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.06053	650384.33	4190556.46	1.11313
650434.33	4190556.46	1.17154	650484.33	4190556.46	1.23749
650534.33	4190556.46	1.31291	650584.33	4190556.46	1.39984
650634.33	4190556.46	1.50042	650684.33	4190556.46	1.61609
650734.33	4190556.46	1.74590	650784.33	4190556.46	1.88425
650834.33	4190556.46	2.01872	650884.33	4190556.46	2.13196
650934.33	4190556.46	2.21176	650984.33	4190556.46	2.26144
651034.33	4190556.46	2.30018	651084.33	4190556.46	2.33755
651134.33	4190556.46	2.36420	651184.33	4190556.46	2.38002
651234.33	4190556.46	2.39278	651284.33	4190556.46	2.40377
651334.33	4190556.46	2.40989	650334.33	4190606.46	1.12850
650384.33	4190606.46	1.18710	650434.33	4190606.46	1.25120
650484.33	4190606.46	1.32273	650534.33	4190606.46	1.40418
650584.33	4190606.46	1.49842	650634.33	4190606.46	1.60856
650684.33	4190606.46	1.73754	650734.33	4190606.46	1.88648
650784.33	4190606.46	2.05149	650834.33	4190606.46	2.21972
650884.33	4190606.46	2.36845	650934.33	4190606.46	2.47714
650984.33	4190606.46	2.54734	651034.33	4190606.46	2.60459
651084.33	4190606.46	2.65939	651134.33	4190606.46	2.69578
651184.33	4190606.46	2.71191	651234.33	4190606.46	2.71789
651284.33	4190606.46	2.72197	651334.33	4190606.46	2.72298
650334.33	4190656.46	1.20184	650384.33	4190656.46	1.26884
650434.33	4190656.46	1.34134	650484.33	4190656.46	1.42100
650534.33	4190656.46	1.51045	650584.33	4190656.46	1.61327
650634.33	4190656.46	1.73393	650684.33	4190656.46	1.87730
650734.33	4190656.46	2.04731	650784.33	4190656.46	2.24337
650834.33	4190656.46	2.45394	650884.33	4190656.46	2.65108
650934.33	4190656.46	2.80120	650984.33	4190656.46	2.90055
651034.33	4190656.46	2.98532	651084.33	4190656.46	3.06651
651134.33	4190656.46	3.11568	651184.33	4190656.46	3.12765
651234.33	4190656.46	3.12133	651284.33	4190656.46	3.11712
651334.33	4190656.46	3.10987	650334.33	4190706.46	1.27944
650384.33	4190706.46	1.35697	650434.33	4190706.46	1.44104
650484.33	4190706.46	1.53272	650534.33	4190706.46	1.63414

650584.33	4190706.46	1.74890	650634.33	4190706.46	1.88236
650684.33	4190706.46	2.04169	650734.33	4190706.46	2.23481
650784.33	4190706.46	2.46649	650834.33	4190706.46	2.72988
650884.33	4190706.46	2.99375	650934.33	4190706.46	3.20564
650984.33	4190706.46	3.34776	651034.33	4190706.46	3.47426
651084.33	4190706.46	3.59634	651134.33	4190706.46	3.66070

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	3.65923	651234.33	4190706.46	3.63472
651284.33	4190706.46	3.61857	651334.33	4190706.46	3.59289
650334.33	4190756.46	1.36110	650384.33	4190756.46	1.45042
650434.33	4190756.46	1.54862	650484.33	4190756.46	1.65649
650534.33	4190756.46	1.77548	650584.33	4190756.46	1.90847
650634.33	4190756.46	2.06063	650684.33	4190756.46	2.24021
650734.33	4190756.46	2.45939	650784.33	4190756.46	2.73134
650834.33	4190756.46	3.05967	650884.33	4190756.46	3.41627
650934.33	4190756.46	3.72443	650984.33	4190756.46	3.93290
651034.33	4190756.46	4.12479	651084.33	4190756.46	4.31137
651134.33	4190756.46	4.38893	651184.33	4190756.46	4.35885
651234.33	4190756.46	4.30760	651284.33	4190756.46	4.26496
651334.33	4190756.46	4.19869	650334.33	4190806.46	1.44801
650384.33	4190806.46	1.54966	650434.33	4190806.46	1.66335
650484.33	4190806.46	1.79050	650534.33	4190806.46	1.93263
650584.33	4190806.46	2.09203	650634.33	4190806.46	2.27305
650684.33	4190806.46	2.48365	650734.33	4190806.46	2.73746
650784.33	4190806.46	3.05626	650834.33	4190806.46	3.46258
650884.33	4190806.46	3.94765	650934.33	4190806.46	4.41344
650984.33	4190806.46	4.73459	651034.33	4190806.46	5.03504
651084.33	4190806.46	5.32343	651134.33	4190806.46	5.39876
651184.33	4190806.46	5.31653	651234.33	4190806.46	5.21076
651284.33	4190806.46	5.10338	651334.33	4190806.46	4.95809
650334.33	4190856.46	1.54184	650384.33	4190856.46	1.65650
650434.33	4190856.46	1.78655	650484.33	4190856.46	1.93473
650534.33	4190856.46	2.10400	650584.33	4190856.46	2.29763
650634.33	4190856.46	2.51991	650684.33	4190856.46	2.77848
650734.33	4190856.46	3.08749	650784.33	4190856.46	3.47228
650834.33	4190856.46	3.97483	650884.33	4190856.46	4.63325
650934.33	4190856.46	5.36879	650984.33	4190856.46	5.91078
651034.33	4190856.46	6.41137	651084.33	4190856.46	6.85103

651134.33	4190856.46	6.87588	651184.33	4190856.46	6.67654
651234.33	4190856.46	6.43136	651284.33	4190856.46	6.18702
651334.33	4190856.46	5.90557	650334.33	4190906.46	1.64317
650384.33	4190906.46	1.77247	650434.33	4190906.46	1.92043
650484.33	4190906.46	2.09128	650534.33	4190906.46	2.29029
650584.33	4190906.46	2.52386	650634.33	4190906.46	2.79949
650684.33	4190906.46	3.12674	650734.33	4190906.46	3.52156
650784.33	4190906.46	4.01478	650834.33	4190906.46	4.66396
650884.33	4190906.46	5.56200	650934.33	4190906.46	6.76101

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	7.83620	651034.33	4190906.46	8.78813
651084.33	4190906.46	9.38345	651134.33	4190906.46	9.16909
651184.33	4190906.46	8.61561	651234.33	4190906.46	8.05881
651284.33	4190906.46	7.58031	651334.33	4190906.46	7.08986
650334.33	4190956.46	1.75009	650384.33	4190956.46	1.89651
650434.33	4190956.46	2.06537	650484.33	4190956.46	2.26217
650534.33	4190956.46	2.49439	650584.33	4190956.46	2.77228
650634.33	4190956.46	3.10982	650684.33	4190956.46	3.52569
650734.33	4190956.46	4.04548	650784.33	4190956.46	4.71164
650834.33	4190956.46	5.61161	650884.33	4190956.46	6.92463
650934.33	4190956.46	8.94064	650984.33	4190956.46	11.64488
651034.33	4190956.46	14.13876	651084.33	4190956.46	14.12724
651134.33	4190956.46	12.67035	651184.33	4190956.46	11.26659
651234.33	4190956.46	10.21184	651284.33	4190956.46	9.39931
651334.33	4190956.46	8.59250	650334.33	4191006.46	1.85947
650384.33	4191006.46	2.02437	650434.33	4191006.46	2.21656
650484.33	4191006.46	2.44317	650534.33	4191006.46	2.71402
650584.33	4191006.46	3.04316	650634.33	4191006.46	3.45128
650684.33	4191006.46	3.97003	650734.33	4191006.46	4.64900
650784.33	4191006.46	5.56854	650834.33	4191006.46	6.88044
650884.33	4191006.46	8.95840	650934.33	4191006.46	12.82779
650984.33	4191006.46	21.98278	651034.33	4191006.46	32.92904
651084.33	4191006.46	21.77504	651134.33	4191006.46	17.30725
651184.33	4191006.46	14.81854	651234.33	4191006.46	13.17920
651284.33	4191006.46	11.87656	651334.33	4191006.46	10.53907
650334.33	4191056.46	1.96885	650384.33	4191056.46	2.15185
650434.33	4191056.46	2.36698	650484.33	4191056.46	2.62333
650534.33	4191056.46	2.93375	650584.33	4191056.46	3.31689

650634.33	4191056.46	3.80095	650684.33	4191056.46	4.43067
650734.33	4191056.46	5.28152	650784.33	4191056.46	6.49102
650834.33	4191056.46	8.33471	650884.33	4191056.46	11.47247
650934.33	4191056.46	18.18536	650984.33	4191056.46	40.67593
651034.33	4191056.46	44.59644	651084.33	4191056.46	28.34654
651134.33	4191056.46	23.02073	651184.33	4191056.46	20.09005
651234.33	4191056.46	17.78024	651284.33	4191056.46	15.47761
651334.33	4191056.46	13.07558	650334.33	4191106.46	2.07248
650384.33	4191106.46	2.27221	650434.33	4191106.46	2.50818
650484.33	4191106.46	2.79103	650534.33	4191106.46	3.13598
650584.33	4191106.46	3.56551	650634.33	4191106.46	4.11431
650684.33	4191106.46	4.83861	650734.33	4191106.46	5.83547

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	7.28598	650834.33	4191106.46	9.56629
650884.33	4191106.46	13.59475	650934.33	4191106.46	22.21509
650984.33	4191106.46	50.51165	651034.33	4191106.46	47.63276
651084.33	4191106.46	36.12700	651134.33	4191106.46	33.04885
651184.33	4191106.46	30.64275	651234.33	4191106.46	26.57955
651284.33	4191106.46	20.93759	651334.33	4191106.46	16.11855
650334.33	4191156.46	2.16043	650384.33	4191156.46	2.37344
650434.33	4191156.46	2.62572	650484.33	4191156.46	2.92892
650534.33	4191156.46	3.29973	650584.33	4191156.46	3.76284
650634.33	4191156.46	4.35622	650684.33	4191156.46	5.14125
650734.33	4191156.46	6.22352	650784.33	4191156.46	7.80124
650834.33	4191156.46	10.29373	650884.33	4191156.46	14.71705
650934.33	4191156.46	24.10852	650984.33	4191156.46	51.66075
651034.33	4191156.46	66.51512	651084.33	4191156.46	66.62202
651134.33	4191156.46	66.71064	651184.33	4191156.46	65.46728
651234.33	4191156.46	46.78579	651284.33	4191156.46	27.46226
651334.33	4191156.46	18.92428	650334.33	4191206.46	2.22569
650384.33	4191206.46	2.44655	650434.33	4191206.46	2.70764
650484.33	4191206.46	3.02060	650534.33	4191206.46	3.40180
650584.33	4191206.46	3.87499	650634.33	4191206.46	4.47591
650684.33	4191206.46	5.26095	650734.33	4191206.46	6.32517
650784.33	4191206.46	7.84008	650834.33	4191206.46	10.12905
650884.33	4191206.46	13.82702	650934.33	4191206.46	20.27923
650984.33	4191206.46	29.03262	651034.33	4191206.46	34.50885
651084.33	4191206.46	38.47089	651134.33	4191206.46	42.56876

651184.33	4191206.46	56.68509	651234.33	4191206.46	51.40615
651284.33	4191206.46	29.78592	651334.33	4191206.46	20.31803
650334.33	4191256.46	2.26604	650384.33	4191256.46	2.48884
650434.33	4191256.46	2.75069	650484.33	4191256.46	3.06214
650534.33	4191256.46	3.43774	650584.33	4191256.46	3.89802
650634.33	4191256.46	4.47316	650684.33	4191256.46	5.20947
650734.33	4191256.46	6.17955	650784.33	4191256.46	7.49356
650834.33	4191256.46	9.30437	650884.33	4191256.46	11.78516
650934.33	4191256.46	14.81852	650984.33	4191256.46	17.46517
651034.33	4191256.46	20.14473	651084.33	4191256.46	23.37665
651134.33	4191256.46	29.51072	651184.33	4191256.46	50.57407
651234.33	4191256.46	47.56014	651284.33	4191256.46	28.73087
651334.33	4191256.46	20.25347	650334.33	4191306.46	2.28510
650384.33	4191306.46	2.50605	650434.33	4191306.46	2.76402
650484.33	4191306.46	3.06832	650534.33	4191306.46	3.43155

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	3.87129	650634.33	4191306.46	4.41254
650684.33	4191306.46	5.09049	650734.33	4191306.46	5.95132
650784.33	4191306.46	7.04830	650834.33	4191306.46	8.42624
650884.33	4191306.46	10.05654	650934.33	4191306.46	11.74731
650984.33	4191306.46	13.50599	651034.33	4191306.46	15.79965
651084.33	4191306.46	19.26725	651134.33	4191306.46	26.19044
651184.33	4191306.46	46.62141	651234.33	4191306.46	47.61335
651284.33	4191306.46	28.58579	651334.33	4191306.46	20.12684
650334.33	4191356.46	2.29141	650384.33	4191356.46	2.50901
650434.33	4191356.46	2.76140	650484.33	4191356.46	3.05669
650534.33	4191356.46	3.40574	650584.33	4191356.46	3.82331
650634.33	4191356.46	4.32881	650684.33	4191356.46	4.94590
650734.33	4191356.46	5.69979	650784.33	4191356.46	6.60985
650834.33	4191356.46	7.67249	650884.33	4191356.46	8.84831
650934.33	4191356.46	10.12217	650984.33	4191356.46	11.68603
651034.33	4191356.46	13.91610	651084.33	4191356.46	17.48018
651134.33	4191356.46	24.27946	651184.33	4191356.46	42.13321
651234.33	4191356.46	49.74285	651284.33	4191356.46	29.18080
651334.33	4191356.46	20.30143	650334.33	4191406.46	2.28913
650384.33	4191406.46	2.50168	650434.33	4191406.46	2.74667
650484.33	4191406.46	3.03134	650534.33	4191406.46	3.36519
650584.33	4191406.46	3.76021	650634.33	4191406.46	4.23049

650684.33	4191406.46	4.79042	650734.33	4191406.46	5.45110
650784.33	4191406.46	6.21536	650834.33	4191406.46	7.07818
650884.33	4191406.46	8.04416	650934.33	4191406.46	9.17803
650984.33	4191406.46	10.68348	651034.33	4191406.46	12.88155
651084.33	4191406.46	16.37849	651134.33	4191406.46	22.79785
651184.33	4191406.46	38.74480	651234.33	4191406.46	52.48246
651284.33	4191406.46	30.08326	651334.33	4191406.46	20.66141
650334.33	4191456.46	2.27760	650384.33	4191456.46	2.48378
650434.33	4191456.46	2.72055	650484.33	4191456.46	2.99454
650534.33	4191456.46	3.31383	650584.33	4191456.46	3.68754
650634.33	4191456.46	4.12471	650684.33	4191456.46	4.63255
650734.33	4191456.46	5.21515	650784.33	4191456.46	5.87555
650834.33	4191456.46	6.62367	650884.33	4191456.46	7.49130
650934.33	4191456.46	8.56836	650984.33	4191456.46	10.03818
651034.33	4191456.46	12.17835	651084.33	4191456.46	15.53798
651134.33	4191456.46	21.56226	651184.33	4191456.46	35.91350
651234.33	4191456.46	55.68916	651284.33	4191456.46	31.19090
651334.33	4191456.46	21.15207	650334.33	4191506.46	2.25756

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.45731	650434.33	4191506.46	2.68625
650484.33	4191506.46	2.95015	650534.33	4191506.46	3.25537
650584.33	4191506.46	3.60801	650634.33	4191506.46	4.01304
650684.33	4191506.46	4.47415	650734.33	4191506.46	4.99576
650784.33	4191506.46	5.58745	650834.33	4191506.46	6.26988
650884.33	4191506.46	7.08642	650934.33	4191506.46	8.12940
650984.33	4191506.46	9.55593	651034.33	4191506.46	11.61340
651084.33	4191506.46	14.80947	651134.33	4191506.46	20.44444
651184.33	4191506.46	33.32310	651234.33	4191506.46	59.37897
651284.33	4191506.46	32.66009	651334.33	4191506.46	21.81763
650334.33	4191556.46	2.23137	650384.33	4191556.46	2.42507
650434.33	4191556.46	2.64640	650484.33	4191556.46	2.89998
650534.33	4191556.46	3.19023	650584.33	4191556.46	3.52087
650634.33	4191556.46	3.89504	650684.33	4191556.46	4.31678
650734.33	4191556.46	4.79372	650784.33	4191556.46	5.34031
650834.33	4191556.46	5.98187	650884.33	4191556.46	6.76506
650934.33	4191556.46	7.77576	650984.33	4191556.46	9.14917
651034.33	4191556.46	11.10849	651084.33	4191556.46	14.11511
651134.33	4191556.46	19.31963	651184.33	4191556.46	30.56511

651234.33	4191556.46	56.12935	651284.33	4191556.46	34.93672
651334.33	4191556.46	22.68368	650934.45	4191196.80	21.51022
650934.45	4191240.55	16.30150	651071.58	4191520.04	13.66400
650517.18	4191503.06	3.14943	650941.63	4190991.11	12.01958
650974.28	4190903.61	7.53000	650989.95	4190868.34	6.33295
651153.79	4190886.56	8.00673	651170.44	4190902.10	8.57306
651162.67	4190888.23	8.01362	651241.49	4191031.43	14.94530
650569.32	4190797.20	2.00818	650392.81	4190782.21	1.51793

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.06027	650384.33	4190556.46	1.11515
650434.33	4190556.46	1.17666	650484.33	4190556.46	1.24638
650534.33	4190556.46	1.32620	650584.33	4190556.46	1.41822
650634.33	4190556.46	1.52420	650684.33	4190556.46	1.64433
650734.33	4190556.46	1.77522	650784.33	4190556.46	1.90772
650834.33	4190556.46	2.02524	650884.33	4190556.46	2.10735
650934.33	4190556.46	2.14474	650984.33	4190556.46	2.15130
651034.33	4190556.46	2.15939	651084.33	4190556.46	2.18722
651134.33	4190556.46	2.22480	651184.33	4190556.46	2.25986
651234.33	4190556.46	2.28156	651284.33	4190556.46	2.28360
651334.33	4190556.46	2.27049	650334.33	4190606.46	1.12730
650384.33	4190606.46	1.18738	650434.33	4190606.46	1.25425
650484.33	4190606.46	1.32975	650534.33	4190606.46	1.41617
650584.33	4190606.46	1.51632	650634.33	4190606.46	1.63322
650684.33	4190606.46	1.76896	650734.33	4190606.46	1.92230
650784.33	4190606.46	2.08527	650834.33	4190606.46	2.23944
650884.33	4190606.46	2.35639	650934.33	4190606.46	2.41559
650984.33	4190606.46	2.43048	651034.33	4190606.46	2.44580
651084.33	4190606.46	2.48552	651134.33	4190606.46	2.53288
651184.33	4190606.46	2.56994	651234.33	4190606.46	2.58308
651284.33	4190606.46	2.57266	651334.33	4190606.46	2.54866
650334.33	4190656.46	1.20128	650384.33	4190656.46	1.26847
650434.33	4190656.46	1.34259	650484.33	4190656.46	1.42565
650534.33	4190656.46	1.52027	650584.33	4190656.46	1.62980
650634.33	4190656.46	1.75857	650684.33	4190656.46	1.91104
650734.33	4190656.46	2.08929	650784.33	4190656.46	2.28839
650834.33	4190656.46	2.48984	650884.33	4190656.46	2.65684
650934.33	4190656.46	2.75102	650984.33	4190656.46	2.78000
651034.33	4190656.46	2.80699	651084.33	4190656.46	2.86445

651134.33	4190656.46	2.92351	651184.33	4190656.46	2.95728
651234.33	4190656.46	2.95460	651284.33	4190656.46	2.92810
651334.33	4190656.46	2.88827	650334.33	4190706.46	1.28165
650384.33	4190706.46	1.35820	650434.33	4190706.46	1.44225
650484.33	4190706.46	1.53570	650534.33	4190706.46	1.64136
650584.33	4190706.46	1.76302	650634.33	4190706.46	1.90579
650684.33	4190706.46	2.07654	650734.33	4190706.46	2.28205
650784.33	4190706.46	2.52316	650834.33	4190706.46	2.78502
650884.33	4190706.46	3.02402	650934.33	4190706.46	3.17578
650984.33	4190706.46	3.22961	651034.33	4190706.46	3.27627
651084.33	4190706.46	3.36094	651134.33	4190706.46	3.43153

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	3.45081	651234.33	4190706.46	3.42378
651284.33	4190706.46	3.37398	651334.33	4190706.46	3.30545
650334.33	4190756.46	1.36807	650384.33	4190756.46	1.45599
650434.33	4190756.46	1.55297	650484.33	4190756.46	1.66059
650534.33	4190756.46	1.78154	650584.33	4190756.46	1.91997
650634.33	4190756.46	2.08161	650684.33	4190756.46	2.27459
650734.33	4190756.46	2.51039	650784.33	4190756.46	2.79932
650834.33	4190756.46	3.13685	650884.33	4190756.46	3.47931
650934.33	4190756.46	3.72845	650984.33	4190756.46	3.82889
651034.33	4190756.46	3.91067	651084.33	4190756.46	4.03803
651134.33	4190756.46	4.11222	651184.33	4190756.46	4.09804
651234.33	4190756.46	4.03345	651284.33	4190756.46	3.93938
651334.33	4190756.46	3.81652	650334.33	4190806.46	1.46073
650384.33	4190806.46	1.56168	650434.33	4190806.46	1.67425
650484.33	4190806.46	1.80020	650534.33	4190806.46	1.94198
650584.33	4190806.46	2.10369	650634.33	4190806.46	2.29192
650684.33	4190806.46	2.51615	650734.33	4190806.46	2.79023
650784.33	4190806.46	3.13425	650834.33	4190806.46	3.56388
650884.33	4190806.46	4.05311	650934.33	4190806.46	4.47187
650984.33	4190806.46	4.66734	651034.33	4190806.46	4.81742
651084.33	4190806.46	5.01118	651134.33	4190806.46	5.06019
651184.33	4190806.46	4.98115	651234.33	4190806.46	4.84087
651284.33	4190806.46	4.65343	651334.33	4190806.46	4.43444
650334.33	4190856.46	1.55995	650384.33	4190856.46	1.67539
650434.33	4190856.46	1.80584	650484.33	4190856.46	1.95390
650534.33	4190856.46	2.12272	650584.33	4190856.46	2.31650

650634.33	4190856.46	2.54201	650684.33	4190856.46	2.81081
650734.33	4190856.46	3.14073	650784.33	4190856.46	3.55842
650834.33	4190856.46	4.10157	650884.33	4190856.46	4.79202
650934.33	4190856.46	5.51254	650984.33	4190856.46	5.92599
651034.33	4190856.46	6.22739	651084.33	4190856.46	6.51221
651134.33	4190856.46	6.45725	651184.33	4190856.46	6.22678
651234.33	4190856.46	5.90319	651284.33	4190856.46	5.53459
651334.33	4190856.46	5.16274	650334.33	4190906.46	1.66639
650384.33	4190906.46	1.79770	650434.33	4190906.46	1.94788
650484.33	4190906.46	2.12101	650534.33	4190906.46	2.32217
650584.33	4190906.46	2.55765	650634.33	4190906.46	2.83566
650684.33	4190906.46	3.16891	650734.33	4190906.46	3.58025
650784.33	4190906.46	4.10909	650834.33	4190906.46	4.81772
650884.33	4190906.46	5.78834	650934.33	4190906.46	7.03634

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	8.03689	651034.33	4190906.46	8.75464
651084.33	4190906.46	9.07620	651134.33	4190906.46	8.64152
651184.33	4190906.46	7.96021	651234.33	4190906.46	7.24207
651284.33	4190906.46	6.58091	651334.33	4190906.46	5.99715
650334.33	4190956.46	1.78010	650384.33	4190956.46	1.92931
650434.33	4190956.46	2.10156	650484.33	4190956.46	2.30254
650534.33	4190956.46	2.53993	650584.33	4190956.46	2.82409
650634.33	4190956.46	3.16897	650684.33	4190956.46	3.59375
650734.33	4190956.46	4.12788	650784.33	4190956.46	4.82658
650834.33	4190956.46	5.79904	650884.33	4190956.46	7.24198
650934.33	4190956.46	9.43027	650984.33	4190956.46	12.31912
651034.33	4190956.46	14.75296	651084.33	4190956.46	14.03175
651134.33	4190956.46	11.91727	651184.33	4190956.46	10.17298
651234.33	4190956.46	8.83030	651284.33	4190956.46	7.77968
651334.33	4190956.46	6.92762	650334.33	4191006.46	1.89832
650384.33	4191006.46	2.06749	650434.33	4191006.46	2.26470
650484.33	4191006.46	2.49735	650534.33	4191006.46	2.77578
650584.33	4191006.46	3.11478	650634.33	4191006.46	3.53623
650684.33	4191006.46	4.07326	650734.33	4191006.46	4.77747
650784.33	4191006.46	5.73571	650834.33	4191006.46	7.12808
650884.33	4191006.46	9.39966	650934.33	4191006.46	13.69949
650984.33	4191006.46	24.25867	651034.33	4191006.46	36.34865
651084.33	4191006.46	21.82093	651134.33	4191006.46	15.89292

651184.33	4191006.46	12.70617	651234.33	4191006.46	10.62113
651284.33	4191006.46	9.10283	651334.33	4191006.46	7.92854
650334.33	4191056.46	2.01660	650384.33	4191056.46	2.20589
650434.33	4191056.46	2.42861	650484.33	4191056.46	2.69424
650534.33	4191056.46	3.01617	650584.33	4191056.46	3.41393
650634.33	4191056.46	3.91719	650684.33	4191056.46	4.57335
650734.33	4191056.46	5.46283	650784.33	4191056.46	6.73198
650834.33	4191056.46	8.67415	650884.33	4191056.46	12.02365
650934.33	4191056.46	19.31609	650984.33	4191056.46	43.38235
651034.33	4191056.46	47.36574	651084.33	4191056.46	27.49659
651134.33	4191056.46	19.72521	651184.33	4191056.46	15.42393
651234.33	4191056.46	12.55649	651284.33	4191056.46	10.49444
651334.33	4191056.46	8.95899	650334.33	4191106.46	2.12942
650384.33	4191106.46	2.33725	650434.33	4191106.46	2.58321
650484.33	4191106.46	2.87857	650534.33	4191106.46	3.23947
650584.33	4191106.46	3.68980	650634.33	4191106.46	4.26643
650684.33	4191106.46	5.02917	650734.33	4191106.46	6.08110

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	7.61416	650834.33	4191106.46	10.02645
650884.33	4191106.46	14.28536	650934.33	4191106.46	23.41333
650984.33	4191106.46	52.70005	651034.33	4191106.46	49.58167
651084.33	4191106.46	32.32634	651134.33	4191106.46	24.15035
651184.33	4191106.46	18.44160	651234.33	4191106.46	14.54278
651284.33	4191106.46	11.87467	651334.33	4191106.46	9.97212
650334.33	4191156.46	2.22945	650384.33	4191156.46	2.45298
650434.33	4191156.46	2.71839	650484.33	4191156.46	3.03825
650534.33	4191156.46	3.43062	650584.33	4191156.46	3.92222
650634.33	4191156.46	4.55429	650684.33	4191156.46	5.39363
650734.33	4191156.46	6.55534	650784.33	4191156.46	8.25581
650834.33	4191156.46	10.95182	650884.33	4191156.46	15.73837
650934.33	4191156.46	25.81173	650984.33	4191156.46	61.71921
651034.33	4191156.46	60.02356	651084.33	4191156.46	48.55052
651134.33	4191156.46	31.33991	651184.33	4191156.46	21.76580
651234.33	4191156.46	16.49080	651284.33	4191156.46	13.18982
651334.33	4191156.46	10.93076	650334.33	4191206.46	2.31127
650384.33	4191206.46	2.54636	650434.33	4191206.46	2.82550
650484.33	4191206.46	3.16175	650534.33	4191206.46	3.57362
650584.33	4191206.46	4.08819	650634.33	4191206.46	4.74667

650684.33	4191206.46	5.61497	650734.33	4191206.46	6.80595
650784.33	4191206.46	8.52718	650834.33	4191206.46	11.18284
650884.33	4191206.46	15.63253	650934.33	4191206.46	24.14440
650984.33	4191206.46	40.90846	651034.33	4191206.46	54.34652
651084.33	4191206.46	66.77519	651134.33	4191206.46	37.16665
651184.33	4191206.46	24.67676	651234.33	4191206.46	18.26232
651284.33	4191206.46	14.40033	651334.33	4191206.46	11.81851
650334.33	4191256.46	2.37257	650384.33	4191256.46	2.61419
650434.33	4191256.46	2.90001	650484.33	4191256.46	3.24251
650534.33	4191256.46	3.65915	650584.33	4191256.46	4.17498
650634.33	4191256.46	4.82753	650684.33	4191256.46	5.67574
650734.33	4191256.46	6.81481	650784.33	4191256.46	8.39775
650834.33	4191256.46	10.66630	650884.33	4191256.46	14.00107
650934.33	4191256.46	18.78591	650984.33	4191256.46	24.49952
651034.33	4191256.46	35.74625	651084.33	4191256.46	61.31025
651134.33	4191256.46	40.95268	651184.33	4191256.46	26.96416
651234.33	4191256.46	19.77940	651284.33	4191256.46	15.47510
651334.33	4191256.46	12.61802	650334.33	4191306.46	2.41385
650384.33	4191306.46	2.65769	650434.33	4191306.46	2.94461
650484.33	4191306.46	3.28613	650534.33	4191306.46	3.69824

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	4.20376	650634.33	4191306.46	4.83609
650684.33	4191306.46	5.64416	650734.33	4191306.46	6.69721
650784.33	4191306.46	8.08904	650834.33	4191306.46	9.94302
650884.33	4191306.46	12.38464	650934.33	4191306.46	15.46021
650984.33	4191306.46	19.87177	651034.33	4191306.46	28.53039
651084.33	4191306.46	55.76135	651134.33	4191306.46	48.23951
651184.33	4191306.46	30.01847	651234.33	4191306.46	21.42258
651284.33	4191306.46	16.54206	651334.33	4191306.46	13.38030
650334.33	4191356.46	2.43914	650384.33	4191356.46	2.68246
650434.33	4191356.46	2.96719	650484.33	4191356.46	3.30390
650534.33	4191356.46	3.70718	650584.33	4191356.46	4.19732
650634.33	4191356.46	4.80218	650684.33	4191356.46	5.55839
650734.33	4191356.46	6.51222	650784.33	4191356.46	7.71977
650834.33	4191356.46	9.24009	650884.33	4191356.46	11.13355
650934.33	4191356.46	13.59102	650984.33	4191356.46	17.34364
651034.33	4191356.46	24.14962	651084.33	4191356.46	40.44251
651134.33	4191356.46	58.29257	651184.33	4191356.46	34.19352

651234.33	4191356.46	23.48048	651284.33	4191356.46	17.75447
651334.33	4191356.46	14.18402	650334.33	4191406.46	2.45118
650384.33	4191406.46	2.69152	650434.33	4191406.46	2.97139
650484.33	4191406.46	3.30058	650534.33	4191406.46	3.69223
650584.33	4191406.46	4.16359	650634.33	4191406.46	4.73644
650684.33	4191406.46	5.43691	650734.33	4191406.46	6.29468
650784.33	4191406.46	7.34160	650834.33	4191406.46	8.61770
650884.33	4191406.46	10.20852	650934.33	4191406.46	12.34286
650984.33	4191406.46	15.57750	651034.33	4191406.46	21.10547
651084.33	4191406.46	32.79858	651134.33	4191406.46	58.19815
651184.33	4191406.46	39.72549	651234.33	4191406.46	26.05707
651284.33	4191406.46	19.19022	651334.33	4191406.46	15.07732
650334.33	4191456.46	2.45040	650384.33	4191456.46	2.68595
650434.33	4191456.46	2.95942	650484.33	4191456.46	3.27982
650534.33	4191456.46	3.65852	650584.33	4191456.46	4.10930
650634.33	4191456.46	4.64798	650684.33	4191456.46	5.29184
650734.33	4191456.46	6.05960	650784.33	4191456.46	6.97633
650834.33	4191456.46	8.08830	650884.33	4191456.46	9.49064
650934.33	4191456.46	11.38861	650984.33	4191456.46	14.20229
651034.33	4191456.46	18.79212	651084.33	4191456.46	27.65863
651134.33	4191456.46	56.00399	651184.33	4191456.46	47.11192
651234.33	4191456.46	29.29303	651284.33	4191456.46	20.88793
651334.33	4191456.46	16.08105	650334.33	4191506.46	2.43844

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.66846	650434.33	4191506.46	2.93488
650484.33	4191506.46	3.24562	650534.33	4191506.46	3.60993
650584.33	4191506.46	4.03789	650634.33	4191506.46	4.54009
650684.33	4191506.46	5.12817	650734.33	4191506.46	5.81807
650784.33	4191506.46	6.63716	650834.33	4191506.46	7.63418
650884.33	4191506.46	8.89761	650934.33	4191506.46	10.60088
650984.33	4191506.46	13.06622	651034.33	4191506.46	16.93671
651084.33	4191506.46	23.92187	651134.33	4191506.46	40.79939
651184.33	4191506.46	56.95172	651234.33	4191506.46	33.41725
651284.33	4191506.46	22.88151	651334.33	4191506.46	17.18335
650334.33	4191556.46	2.41779	650384.33	4191556.46	2.64187
650434.33	4191556.46	2.90046	650484.33	4191556.46	3.20004
650534.33	4191556.46	3.54748	650584.33	4191556.46	3.94979
650634.33	4191556.46	4.41457	650684.33	4191556.46	4.95216

650734.33	4191556.46	5.57954	650784.33	4191556.46	6.32486
650834.33	4191556.46	7.23361	650884.33	4191556.46	8.38446
650934.33	4191556.46	9.92204	650984.33	4191556.46	12.09896
651034.33	4191556.46	15.40983	651084.33	4191556.46	21.07519
651134.33	4191556.46	33.13495	651184.33	4191556.46	72.99059
651234.33	4191556.46	38.70876	651284.33	4191556.46	25.13838
651334.33	4191556.46	18.33382	650934.45	4191196.80	25.11015
650934.45	4191240.55	20.34653	651071.58	4191520.04	20.95157
650517.18	4191503.06	3.48165	650941.63	4190991.11	12.82581
650974.28	4190903.61	7.75036	650989.95	4190868.34	6.35645
651153.79	4190886.56	7.49576	651170.44	4190902.10	7.97223
651162.67	4190888.23	7.48393	651241.49	4191031.43	11.28601
650569.32	4190797.20	2.01808	650392.81	4190782.21	1.52643

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.46852	650384.33	4190556.46	2.70663
650434.33	4190556.46	2.98569	650484.33	4190556.46	3.31594
650534.33	4190556.46	3.71020	650584.33	4190556.46	4.18516
650634.33	4190556.46	4.76382	650684.33	4190556.46	5.47951
650734.33	4190556.46	6.38243	650784.33	4190556.46	7.55362
650834.33	4190556.46	9.13950	650884.33	4190556.46	11.44742
650934.33	4190556.46	15.23152	650984.33	4190556.46	22.83740
651034.33	4190556.46	35.04535	651084.33	4190556.46	33.12841
651134.33	4190556.46	21.18154	651184.33	4190556.46	15.53748
651234.33	4190556.46	12.29795	651284.33	4190556.46	10.17721
651334.33	4190556.46	8.66075	650334.33	4190606.46	2.50607
650384.33	4190606.46	2.74638	650434.33	4190606.46	3.02605
650484.33	4190606.46	3.35429	650534.33	4190606.46	3.74283
650584.33	4190606.46	4.20736	650634.33	4190606.46	4.76998
650684.33	4190606.46	5.46274	650734.33	4190606.46	6.33311
650784.33	4190606.46	7.45504	650834.33	4190606.46	8.95771
650884.33	4190606.46	11.10521	650934.33	4190606.46	14.53378
650984.33	4190606.46	21.13622	651034.33	4190606.46	41.16340
651084.33	4190606.46	36.64845	651134.33	4190606.46	22.75156
651184.33	4190606.46	16.44284	651234.33	4190606.46	12.91763
651284.33	4190606.46	10.64201	651334.33	4190606.46	9.02843
650334.33	4190656.46	2.53755	650384.33	4190656.46	2.77978
650434.33	4190656.46	3.05940	650484.33	4190656.46	3.38459
650534.33	4190656.46	3.76629	650584.33	4190656.46	4.21964

650634.33	4190656.46	4.76624	650684.33	4190656.46	5.43716
650734.33	4190656.46	6.27791	650784.33	4190656.46	7.35768
650834.33	4190656.46	8.79201	650884.33	4190656.46	10.80585
650934.33	4190656.46	13.92835	650984.33	4190656.46	19.70152
651034.33	4190656.46	34.93228	651084.33	4190656.46	40.78800
651134.33	4190656.46	24.55469	651184.33	4190656.46	17.47226
651234.33	4190656.46	13.62260	651284.33	4190656.46	11.17299
651334.33	4190656.46	9.44664	650334.33	4190706.46	2.56224
650384.33	4190706.46	2.80592	650434.33	4190706.46	3.08539
650484.33	4190706.46	3.40786	650534.33	4190706.46	3.78344
650584.33	4190706.46	4.22660	650634.33	4190706.46	4.75817
650684.33	4190706.46	5.40853	650734.33	4190706.46	6.22217
650784.33	4190706.46	7.26570	650834.33	4190706.46	8.64510
650884.33	4190706.46	10.55203	650934.33	4190706.46	13.41867
650984.33	4190706.46	18.49119	651034.33	4190706.46	30.77452
651084.33	4190706.46	45.70661	651134.33	4190706.46	26.69323

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	18.71478	651234.33	4190706.46	14.47866
651284.33	4190706.46	11.81182	651334.33	4190706.46	9.93767
650334.33	4190756.46	2.57993	650384.33	4190756.46	2.82419
650434.33	4190756.46	3.10348	650484.33	4190756.46	3.42434
650534.33	4190756.46	3.79600	650584.33	4190756.46	4.23185
650634.33	4190756.46	4.75141	650684.33	4190756.46	5.38359
650734.33	4190756.46	6.17235	650784.33	4190756.46	7.18417
650834.33	4190756.46	8.52043	650884.33	4190756.46	10.34660
650934.33	4190756.46	13.00286	650984.33	4190756.46	17.47685
651034.33	4190756.46	27.51152	651084.33	4190756.46	51.91491
651134.33	4190756.46	29.60247	651184.33	4190756.46	20.40253
651234.33	4190756.46	15.59215	651284.33	4190756.46	12.60777
651334.33	4190756.46	10.52224	650334.33	4190806.46	2.59125
650384.33	4190806.46	2.83500	650434.33	4190806.46	3.11370
650484.33	4190806.46	3.43390	650534.33	4190806.46	3.80424
650584.33	4190806.46	4.23693	650634.33	4190806.46	4.74985
650684.33	4190806.46	5.36980	650734.33	4190806.46	6.13842
650784.33	4190806.46	7.12244	650834.33	4190806.46	8.42490
650884.33	4190806.46	10.19721	650934.33	4190806.46	12.68843
650984.33	4190806.46	16.59603	651034.33	4190806.46	24.51539
651084.33	4190806.46	31.66425	651134.33	4190806.46	34.53550

651184.33	4190806.46	22.84599	651234.33	4190806.46	17.07145
651284.33	4190806.46	13.60247	651334.33	4190806.46	11.21303
650334.33	4190856.46	2.59723	650384.33	4190856.46	2.83967
650434.33	4190856.46	3.11727	650484.33	4190856.46	3.43709
650534.33	4190856.46	3.80812	650584.33	4190856.46	4.24204
650634.33	4190856.46	4.75526	650684.33	4190856.46	5.37262
650734.33	4190856.46	6.13326	650784.33	4190856.46	7.10086
650834.33	4190856.46	8.38094	650884.33	4190856.46	10.13229
650934.33	4190856.46	12.54488	650984.33	4190856.46	15.97372
651034.33	4190856.46	22.12894	651084.33	4190856.46	38.45498
651134.33	4190856.46	41.56615	651184.33	4190856.46	26.17644
651234.33	4190856.46	18.97534	651284.33	4190856.46	14.81288
651334.33	4190856.46	12.00681	650334.33	4190906.46	2.59869
650384.33	4190906.46	2.83969	650434.33	4190906.46	3.11603
650484.33	4190906.46	3.43553	650534.33	4190906.46	3.80821
650584.33	4190906.46	4.24691	650634.33	4190906.46	4.76841
650684.33	4190906.46	5.39641	650734.33	4190906.46	6.16852
650784.33	4190906.46	7.14798	650834.33	4190906.46	8.44232
650884.33	4190906.46	10.22794	650934.33	4190906.46	12.73635

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	16.03302	651034.33	4190906.46	21.22202
651084.33	4190906.46	32.23236	651134.33	4190906.46	51.30303
651184.33	4190906.46	30.59884	651234.33	4190906.46	21.35215
651284.33	4190906.46	16.24045	651334.33	4190906.46	12.88812
650334.33	4190956.46	2.59519	650384.33	4190956.46	2.83548
650434.33	4190956.46	3.11149	650484.33	4190956.46	3.43154
650534.33	4190956.46	3.80674	650584.33	4190956.46	4.25205
650634.33	4190956.46	4.78766	650684.33	4190956.46	5.44127
650734.33	4190956.46	6.25312	650784.33	4190956.46	7.29042
650834.33	4190956.46	8.67690	650884.33	4190956.46	10.64003
650934.33	4190956.46	13.55455	650984.33	4190956.46	17.71732
651034.33	4190956.46	23.17239	651084.33	4190956.46	30.61359
651134.33	4190956.46	41.34332	651184.33	4190956.46	36.51671
651234.33	4190956.46	24.33886	651284.33	4190956.46	17.90460
651334.33	4190956.46	13.83317	650334.33	4191006.46	2.58472
650384.33	4191006.46	2.82465	650434.33	4191006.46	3.10134
650484.33	4191006.46	3.42371	650534.33	4191006.46	3.80385
650584.33	4191006.46	4.25862	650634.33	4191006.46	4.81237

650684.33	4191006.46	5.50123	650734.33	4191006.46	6.38023
650784.33	4191006.46	7.53758	650834.33	4191006.46	9.13871
650884.33	4191006.46	11.55927	650934.33	4191006.46	15.73650
650984.33	4191006.46	24.74883	651034.33	4191006.46	36.34042
651084.33	4191006.46	32.49768	651134.33	4191006.46	44.28729
651184.33	4191006.46	44.84887	651234.33	4191006.46	28.19662
651284.33	4191006.46	19.81590	651334.33	4191006.46	14.77153
650334.33	4191056.46	2.56545	650384.33	4191056.46	2.80378
650434.33	4191056.46	3.07992	650484.33	4191056.46	3.40365
650534.33	4191056.46	3.78846	650584.33	4191056.46	4.25353
650634.33	4191056.46	4.82727	650684.33	4191056.46	5.55387
650734.33	4191056.46	6.50616	650784.33	4191056.46	7.81292
650834.33	4191056.46	9.72274	650884.33	4191056.46	12.82286
650934.33	4191056.46	19.05463	650984.33	4191056.46	38.28122
651034.33	4191056.46	43.98400	651084.33	4191056.46	33.83662
651134.33	4191056.46	38.30198	651184.33	4191056.46	56.49479
651234.33	4191056.46	33.22057	651284.33	4191056.46	21.85251
651334.33	4191056.46	15.46008	650334.33	4191106.46	2.53415
650384.33	4191106.46	2.76878	650434.33	4191106.46	3.04146
650484.33	4191106.46	3.36244	650534.33	4191106.46	3.74615
650584.33	4191106.46	4.21361	650634.33	4191106.46	4.79671
650684.33	4191106.46	5.54626	650734.33	4191106.46	6.54847

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	7.96119	650834.33	4191106.46	10.10520
650884.33	4191106.46	13.74130	650934.33	4191106.46	21.19040
650984.33	4191106.46	43.91703	651034.33	4191106.46	43.80465
651084.33	4191106.46	35.11022	651134.33	4191106.46	37.36373
651184.33	4191106.46	43.77211	651234.33	4191106.46	39.56560
651284.33	4191106.46	23.24189	651334.33	4191106.46	15.28933
650334.33	4191156.46	2.48471	650384.33	4191156.46	2.71246
650434.33	4191156.46	2.97752	650484.33	4191156.46	3.29019
650534.33	4191156.46	3.66506	650584.33	4191156.46	4.12353
650634.33	4191156.46	4.69831	650684.33	4191156.46	5.44202
650734.33	4191156.46	6.44485	650784.33	4191156.46	7.87505
650834.33	4191156.46	10.08461	650884.33	4191156.46	13.91136
650934.33	4191156.46	21.77100	650984.33	4191156.46	48.57544
651034.33	4191156.46	48.99704	651084.33	4191156.46	46.55398
651134.33	4191156.46	47.97589	651184.33	4191156.46	57.69685

651234.33	4191156.46	42.96962	651284.33	4191156.46	21.42739
651334.33	4191156.46	13.58697	650334.33	4191206.46	2.41338
650384.33	4191206.46	2.62967	650434.33	4191206.46	2.88098
650484.33	4191206.46	3.17684	650534.33	4191206.46	3.53067
650584.33	4191206.46	3.96201	650634.33	4191206.46	4.50040
650684.33	4191206.46	5.19310	650734.33	4191206.46	6.12109
650784.33	4191206.46	7.43334	650834.33	4191206.46	9.41943
650884.33	4191206.46	12.68883	650934.33	4191206.46	18.81659
650984.33	4191206.46	30.58297	651034.33	4191206.46	38.31072
651084.33	4191206.46	42.57588	651134.33	4191206.46	44.61316
651184.33	4191206.46	41.78186	651234.33	4191206.46	24.04693
651284.33	4191206.46	15.00758	651334.33	4191206.46	10.56343
650334.33	4191256.46	2.32084	650384.33	4191256.46	2.52088
650434.33	4191256.46	2.75180	650484.33	4191256.46	3.02149
650534.33	4191256.46	3.34084	650584.33	4191256.46	3.72537
650634.33	4191256.46	4.19823	650684.33	4191256.46	4.79578
650734.33	4191256.46	5.57665	650784.33	4191256.46	6.63319
650834.33	4191256.46	8.10263	650884.33	4191256.46	10.17173
650934.33	4191256.46	12.88204	650984.33	4191256.46	15.09761
651034.33	4191256.46	16.62567	651084.33	4191256.46	17.29265
651134.33	4191256.46	16.72713	651184.33	4191256.46	13.90927
651234.33	4191256.46	11.21899	651284.33	4191256.46	9.08986
651334.33	4191256.46	7.45255	650334.33	4191306.46	2.21245
650384.33	4191306.46	2.39337	650434.33	4191306.46	2.60032
650484.33	4191306.46	2.83941	650534.33	4191306.46	3.11894

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	3.45071	650634.33	4191306.46	3.85182
650684.33	4191306.46	4.34681	650734.33	4191306.46	4.96795
650784.33	4191306.46	5.75132	650834.33	4191306.46	6.72455
650884.33	4191306.46	7.85135	650934.33	4191306.46	8.87800
650984.33	4191306.46	9.55569	651034.33	4191306.46	9.98342
651084.33	4191306.46	9.88854	651134.33	4191306.46	9.08682
651184.33	4191306.46	7.93792	651234.33	4191306.46	6.98752
651284.33	4191306.46	6.10854	651334.33	4191306.46	5.35300
650334.33	4191356.46	2.09832	650384.33	4191356.46	2.26018
650434.33	4191356.46	2.44341	650484.33	4191356.46	2.65257
650534.33	4191356.46	2.89384	650584.33	4191356.46	3.17556
650634.33	4191356.46	3.50853	650684.33	4191356.46	3.90495

650734.33	4191356.46	4.37530	650784.33	4191356.46	4.92132
650834.33	4191356.46	5.51728	650884.33	4191356.46	6.07810
650934.33	4191356.46	6.47874	650984.33	4191356.46	6.70091
651034.33	4191356.46	6.74110	651084.33	4191356.46	6.47219
651134.33	4191356.46	5.95640	651184.33	4191356.46	5.41939
651234.33	4191356.46	4.95069	651284.33	4191356.46	4.48850
651334.33	4191356.46	4.06640	650334.33	4191406.46	1.98528
650384.33	4191406.46	2.12853	650434.33	4191406.46	2.28873
650484.33	4191406.46	2.46921	650534.33	4191406.46	2.67426
650584.33	4191406.46	2.90900	650634.33	4191406.46	3.17846
650684.33	4191406.46	3.48561	650734.33	4191406.46	3.82751
650784.33	4191406.46	4.18818	650834.33	4191406.46	4.53046
650884.33	4191406.46	4.79798	650934.33	4191406.46	4.94273
650984.33	4191406.46	4.97162	651034.33	4191406.46	4.87590
651084.33	4191406.46	4.64025	651134.33	4191406.46	4.33405
651184.33	4191406.46	4.04715	651234.33	4191406.46	3.77824
651284.33	4191406.46	3.50084	651334.33	4191406.46	3.23460
650334.33	4191456.46	1.87347	650384.33	4191456.46	1.99854
650434.33	4191456.46	2.13688	650484.33	4191456.46	2.29087
650534.33	4191456.46	2.46313	650584.33	4191456.46	2.65587
650634.33	4191456.46	2.86956	650684.33	4191456.46	3.10074
650734.33	4191456.46	3.33916	650784.33	4191456.46	3.56539
650834.33	4191456.46	3.75125	650884.33	4191456.46	3.86427
650934.33	4191456.46	3.88711	650984.33	4191456.46	3.83609
651034.33	4191456.46	3.71912	651084.33	4191456.46	3.54733
651134.33	4191456.46	3.35920	651184.33	4191456.46	3.18913
651234.33	4191456.46	3.02066	651284.33	4191456.46	2.84155
651334.33	4191456.46	2.66258	650334.33	4191506.46	1.76296

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	1.87149	650434.33	4191506.46	1.99047
650484.33	4191506.46	2.12132	650534.33	4191506.46	2.26500
650584.33	4191506.46	2.42110	650634.33	4191506.46	2.58656
650684.33	4191506.46	2.75438	650734.33	4191506.46	2.91297
650784.33	4191506.46	3.04651	650834.33	4191506.46	3.13596
650884.33	4191506.46	3.16396	650934.33	4191506.46	3.13183
650984.33	4191506.46	3.05992	651034.33	4191506.46	2.95816
651084.33	4191506.46	2.83633	651134.33	4191506.46	2.71530
651184.33	4191506.46	2.60602	651234.33	4191506.46	2.49346

651284.33	4191506.46	2.37127	651334.33	4191506.46	2.24619
650334.33	4191556.46	1.65609	650384.33	4191556.46	1.75035
650434.33	4191556.46	1.85265	650484.33	4191556.46	1.96338
650534.33	4191556.46	2.08185	650584.33	4191556.46	2.20551
650634.33	4191556.46	2.32934	650684.33	4191556.46	2.44570
650734.33	4191556.46	2.54479	650784.33	4191556.46	2.61525
650834.33	4191556.46	2.64555	650884.33	4191556.46	2.63022
650934.33	4191556.46	2.57989	650984.33	4191556.46	2.51114
651034.33	4191556.46	2.42983	651084.33	4191556.46	2.34259
651134.33	4191556.46	2.26127	651184.33	4191556.46	2.18669
651234.33	4191556.46	2.10747	651284.33	4191556.46	2.02042
651334.33	4191556.46	1.92988	650934.45	4191196.80	19.90697
650934.45	4191240.55	14.63435	651071.58	4191520.04	2.71403
650517.18	4191503.06	2.22658	650941.63	4190991.11	15.58332
650974.28	4190903.61	15.26624	650989.95	4190868.34	16.38395
651153.79	4190886.56	37.98254	651170.44	4190902.10	34.14957
651162.67	4190888.23	34.98020	651241.49	4191031.43	28.75951
650569.32	4190797.20	4.09851	650392.81	4190782.21	2.87533

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.81297	650384.33	4190556.46	3.10526
650434.33	4190556.46	3.45059	650484.33	4190556.46	3.86239
650534.33	4190556.46	4.35793	650584.33	4190556.46	4.96074
650634.33	4190556.46	5.70499	650684.33	4190556.46	6.64248
650734.33	4190556.46	7.85512	650784.33	4190556.46	9.48303
650834.33	4190556.46	11.79838	650884.33	4190556.46	15.42143
650934.33	4190556.46	22.11162	650984.33	4190556.46	39.90278
651034.33	4190556.46	44.90038	651084.33	4190556.46	26.81603
651134.33	4190556.46	18.86620	651184.33	4190556.46	14.49891
651234.33	4190556.46	11.71316	651284.33	4190556.46	9.76064
651334.33	4190556.46	8.30894	650334.33	4190606.46	2.84669
650384.33	4190606.46	3.14005	650434.33	4190606.46	3.48379
650484.33	4190606.46	3.88992	650534.33	4190606.46	4.37436
650584.33	4190606.46	4.95940	650634.33	4190606.46	5.67765
650684.33	4190606.46	6.57817	650734.33	4190606.46	7.73736
650784.33	4190606.46	9.28324	650834.33	4190606.46	11.45766
650884.33	4190606.46	14.79109	650934.33	4190606.46	20.71611
650984.33	4190606.46	34.98025	651034.33	4190606.46	50.21059
651084.33	4190606.46	28.99147	651134.33	4190606.46	19.97294

651184.33	4190606.46	15.16545	651234.33	4190606.46	12.15126
651284.33	4190606.46	10.06311	651334.33	4190606.46	8.52858
650334.33	4190656.46	2.87173	650384.33	4190656.46	3.16530
650434.33	4190656.46	3.50644	650484.33	4190656.46	3.90595
650534.33	4190656.46	4.37877	650584.33	4190656.46	4.94633
650634.33	4190656.46	5.63992	650684.33	4190656.46	6.50632
650734.33	4190656.46	7.61775	650784.33	4190656.46	9.09302
650834.33	4190656.46	11.14873	650884.33	4190656.46	14.24028
650934.33	4190656.46	19.54717	650984.33	4190656.46	31.36305
651034.33	4190656.46	56.89724	651084.33	4190656.46	31.49949
651134.33	4190656.46	21.17184	651184.33	4190656.46	15.85172
651234.33	4190656.46	12.58575	651284.33	4190656.46	10.35797
651334.33	4190656.46	8.74161	650334.33	4190706.46	2.88735
650384.33	4190706.46	3.18018	650434.33	4190706.46	3.51845
650484.33	4190706.46	3.91196	650534.33	4190706.46	4.37469
650584.33	4190706.46	4.92694	650634.33	4190706.46	5.59849
650684.33	4190706.46	6.43423	650734.33	4190706.46	7.50378
650784.33	4190706.46	8.92006	650834.33	4190706.46	10.88097
650884.33	4190706.46	13.78080	650934.33	4190706.46	18.59686
650984.33	4190706.46	28.65992	651034.33	4190706.46	41.57839
651084.33	4190706.46	34.31184	651134.33	4190706.46	22.39750

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	16.53007	651234.33	4190706.46	13.01133
651284.33	4190706.46	10.64781	651334.33	4190706.46	8.94950
650334.33	4190756.46	2.89362	650384.33	4190756.46	3.18446
650434.33	4190756.46	3.51968	650484.33	4190756.46	3.90851
650534.33	4190756.46	4.36395	650584.33	4190756.46	4.90491
650634.33	4190756.46	5.55930	650684.33	4190756.46	6.36972
650734.33	4190756.46	7.40409	650784.33	4190756.46	8.77341
650834.33	4190756.46	10.66611	650884.33	4190756.46	13.43522
650934.33	4190756.46	17.90901	650984.33	4190756.46	26.83829
651034.33	4190756.46	35.62860	651084.33	4190756.46	36.74229
651134.33	4190756.46	23.53537	651184.33	4190756.46	17.18901
651234.33	4190756.46	13.43629	651284.33	4190756.46	10.93864
651334.33	4190756.46	9.15088	650334.33	4190806.46	2.89152
650384.33	4190806.46	3.17916	650434.33	4190806.46	3.51079
650484.33	4190806.46	3.89580	650534.33	4190806.46	4.34675
650584.33	4190806.46	4.88128	650634.33	4190806.46	5.52555

650684.33	4190806.46	6.31980	650734.33	4190806.46	7.32913
650784.33	4190806.46	8.66428	650834.33	4190806.46	10.51535
650884.33	4190806.46	13.22129	650934.33	4190806.46	17.51617
650984.33	4190806.46	25.82690	651034.33	4190806.46	40.20894
651084.33	4190806.46	39.06893	651134.33	4190806.46	24.69873
651184.33	4190806.46	17.88537	651234.33	4190806.46	13.88859
651284.33	4190806.46	11.23576	651334.33	4190806.46	9.33619
650334.33	4190856.46	2.88196	650384.33	4190856.46	3.16569
650434.33	4190856.46	3.49325	650484.33	4190856.46	3.87460
650534.33	4190856.46	4.32277	650584.33	4190856.46	4.85528
650634.33	4190856.46	5.49710	650684.33	4190856.46	6.28688
650734.33	4190856.46	7.28766	650784.33	4190856.46	8.60761
650834.33	4190856.46	10.44134	650884.33	4190856.46	13.14283
650934.33	4190856.46	17.39976	650984.33	4190856.46	25.23901
651034.33	4190856.46	49.66627	651084.33	4190856.46	41.83210
651134.33	4190856.46	26.10667	651184.33	4190856.46	18.71974
651234.33	4190856.46	14.39415	651284.33	4190856.46	11.52735
651334.33	4190856.46	9.47798	650334.33	4190906.46	2.86528
650384.33	4190906.46	3.14491	650434.33	4190906.46	3.46825
650484.33	4190906.46	3.84589	650534.33	4190906.46	4.29190
650584.33	4190906.46	4.82521	650634.33	4190906.46	5.47194
650684.33	4190906.46	6.27045	650734.33	4190906.46	7.28320
650784.33	4190906.46	8.61936	650834.33	4190906.46	10.47782
650884.33	4190906.46	13.23598	650934.33	4190906.46	17.62337

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	25.26747	651034.33	4190906.46	46.13410
651084.33	4190906.46	45.43563	651134.33	4190906.46	27.98728
651184.33	4190906.46	19.74125	651234.33	4190906.46	14.92010
651284.33	4190906.46	11.75767	651334.33	4190906.46	9.52755
650334.33	4190956.46	2.84080	650384.33	4190956.46	3.11660
650434.33	4190956.46	3.43614	650484.33	4190956.46	3.81043
650534.33	4190956.46	4.25454	650584.33	4190956.46	4.78946
650634.33	4190956.46	5.44509	650684.33	4190956.46	6.26497
650734.33	4190956.46	7.31598	650784.33	4190956.46	8.71263
650834.33	4190956.46	10.67200	650884.33	4190956.46	13.62544
650934.33	4190956.46	18.44085	650984.33	4190956.46	26.86022
651034.33	4190956.46	46.21924	651084.33	4190956.46	50.87928
651134.33	4190956.46	30.49671	651184.33	4190956.46	20.82449

651234.33	4190956.46	15.32992	651284.33	4190956.46	11.82199
651334.33	4190956.46	9.42057	650334.33	4191006.46	2.80679
650384.33	4191006.46	3.07836	650434.33	4191006.46	3.39410
650484.33	4191006.46	3.76553	650534.33	4191006.46	4.20862
650584.33	4191006.46	4.74622	650634.33	4191006.46	5.41218
650684.33	4191006.46	6.25872	650734.33	4191006.46	7.36927
650784.33	4191006.46	8.88305	650834.33	4191006.46	11.06044
650884.33	4191006.46	14.48476	650934.33	4191006.46	20.61564
650984.33	4191006.46	33.92809	651034.33	4191006.46	59.13705
651084.33	4191006.46	58.65064	651134.33	4191006.46	33.05478
651184.33	4191006.46	21.57251	651234.33	4191006.46	15.36714
651284.33	4191006.46	11.57386	651334.33	4191006.46	9.08621
650334.33	4191056.46	2.76090	650384.33	4191056.46	3.02639
650434.33	4191056.46	3.33608	650484.33	4191056.46	3.70209
650534.33	4191056.46	4.14150	650584.33	4191056.46	4.67917
650634.33	4191056.46	5.35277	650684.33	4191056.46	6.22214
650734.33	4191056.46	7.38794	650784.33	4191056.46	9.03111
650834.33	4191056.46	11.50482	650884.33	4191056.46	15.62047
650934.33	4191056.46	23.95197	650984.33	4191056.46	48.96578
651034.33	4191056.46	65.63298	651084.33	4191056.46	64.23884
651134.33	4191056.46	34.09381	651184.33	4191056.46	21.25018
651234.33	4191056.46	14.67471	651284.33	4191056.46	10.87482
651334.33	4191056.46	8.48453	650334.33	4191106.46	2.69855
650384.33	4191106.46	2.95487	650434.33	4191106.46	3.25429
650484.33	4191106.46	3.60897	650534.33	4191106.46	4.03629
650584.33	4191106.46	4.56198	650634.33	4191106.46	5.22575
650684.33	4191106.46	6.09195	650734.33	4191106.46	7.27139

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	8.96924	650834.33	4191106.46	11.60602
650884.33	4191106.46	16.18712	650934.33	4191106.46	25.76558
650984.33	4191106.46	55.95113	651034.33	4191106.46	62.38537
651084.33	4191106.46	63.36825	651134.33	4191106.46	31.59540
651184.33	4191106.46	18.99387	651234.33	4191106.46	13.01307
651284.33	4191106.46	9.68984	651334.33	4191106.46	7.62011
650334.33	4191156.46	2.61420	650384.33	4191156.46	2.85684
650434.33	4191156.46	3.14002	650484.33	4191156.46	3.47527
650534.33	4191156.46	3.87913	650584.33	4191156.46	4.37613
650634.33	4191156.46	5.00414	650684.33	4191156.46	5.82461

650734.33	4191156.46	6.94369	650784.33	4191156.46	8.56068
650834.33	4191156.46	11.09684	650884.33	4191156.46	15.57839
650934.33	4191156.46	25.10672	650984.33	4191156.46	46.98304
651034.33	4191156.46	69.05969	651084.33	4191156.46	53.86142
651134.33	4191156.46	23.97473	651184.33	4191156.46	14.84437
651234.33	4191156.46	10.58333	651284.33	4191156.46	8.13583
651334.33	4191156.46	6.55484	650334.33	4191206.46	2.50740
650384.33	4191206.46	2.73154	650434.33	4191206.46	2.99190
650484.33	4191206.46	3.29844	650534.33	4191206.46	3.66522
650584.33	4191206.46	4.11268	650634.33	4191206.46	4.67169
650684.33	4191206.46	5.39131	650734.33	4191206.46	6.35499
650784.33	4191206.46	7.71468	650834.33	4191206.46	9.76003
650884.33	4191206.46	13.06760	650934.33	4191206.46	18.88386
650984.33	4191206.46	26.26272	651034.33	4191206.46	26.26476
651084.33	4191206.46	18.62921	651134.33	4191206.46	13.53018
651184.33	4191206.46	10.12343	651234.33	4191206.46	7.93744
651284.33	4191206.46	6.46502	651334.33	4191206.46	5.41632
650334.33	4191256.46	2.38382	650384.33	4191256.46	2.58607
650434.33	4191256.46	2.81893	650484.33	4191256.46	3.09011
650534.33	4191256.46	3.41017	650584.33	4191256.46	3.79400
650634.33	4191256.46	4.26348	650684.33	4191256.46	4.85244
650734.33	4191256.46	5.61422	650784.33	4191256.46	6.62810
650834.33	4191256.46	7.99497	650884.33	4191256.46	9.79289
650934.33	4191256.46	11.69015	650984.33	4191256.46	12.12436
651034.33	4191256.46	10.71728	651084.33	4191256.46	9.13977
651134.33	4191256.46	7.78050	651184.33	4191256.46	6.65296
651234.33	4191256.46	5.72585	651284.33	4191256.46	4.96704
651334.33	4191256.46	4.34966	650334.33	4191306.46	2.25277
650384.33	4191306.46	2.43234	650434.33	4191306.46	2.63671
650484.33	4191306.46	2.87140	650534.33	4191306.46	3.14371

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	3.46371	650634.33	4191306.46	3.84569
650684.33	4191306.46	4.30941	650734.33	4191306.46	4.87851
650784.33	4191306.46	5.57211	650834.33	4191306.46	6.37875
650884.33	4191306.46	7.16057	650934.33	4191306.46	7.49854
650984.33	4191306.46	7.11597	651034.33	4191306.46	6.46245
651084.33	4191306.46	5.89394	651134.33	4191306.46	5.30422
651184.33	4191306.46	4.74722	651234.33	4191306.46	4.26467

651284.33	4191306.46	3.84931	651334.33	4191306.46	3.48698
650334.33	4191356.46	2.12205	650384.33	4191356.46	2.27944
650434.33	4191356.46	2.45599	650484.33	4191356.46	2.65535
650534.33	4191356.46	2.88229	650584.33	4191356.46	3.14318
650634.33	4191356.46	3.44600	650684.33	4191356.46	3.79870
650734.33	4191356.46	4.20393	650784.33	4191356.46	4.64503
650834.33	4191356.46	5.05372	650884.33	4191356.46	5.28087
650934.33	4191356.46	5.18087	650984.33	4191356.46	4.85215
651034.33	4191356.46	4.53411	651084.33	4191356.46	4.26441
651134.33	4191356.46	3.96168	651184.33	4191356.46	3.64586
651234.33	4191356.46	3.34871	651284.33	4191356.46	3.08266
651334.33	4191356.46	2.84733	650334.33	4191406.46	1.99323
650384.33	4191406.46	2.12893	650434.33	4191406.46	2.27889
650484.33	4191406.46	2.44558	650534.33	4191406.46	2.63214
650584.33	4191406.46	2.84219	650634.33	4191406.46	3.07847
650684.33	4191406.46	3.33939	650734.33	4191406.46	3.61120
650784.33	4191406.46	3.85608	650834.33	4191406.46	4.00863
650884.33	4191406.46	4.00375	650934.33	4191406.46	3.83902
650984.33	4191406.46	3.62104	651034.33	4191406.46	3.44751
651084.33	4191406.46	3.29720	651134.33	4191406.46	3.12085
651184.33	4191406.46	2.92799	651234.33	4191406.46	2.73513
651284.33	4191406.46	2.55229	651334.33	4191406.46	2.38456
650334.33	4191456.46	1.86648	650384.33	4191456.46	1.98228
650434.33	4191456.46	2.10879	650484.33	4191456.46	2.24773
650534.33	4191456.46	2.40083	650584.33	4191456.46	2.56878
650634.33	4191456.46	2.74877	650684.33	4191456.46	2.93025
650734.33	4191456.46	3.09060	650784.33	4191456.46	3.19687
650834.33	4191456.46	3.21842	650884.33	4191456.46	3.14412
650934.33	4191456.46	3.00176	650984.33	4191456.46	2.85959
651034.33	4191456.46	2.75577	651084.33	4191456.46	2.66231
651134.33	4191456.46	2.54988	651184.33	4191456.46	2.42389
651234.33	4191456.46	2.29348	651284.33	4191456.46	2.16461
651334.33	4191456.46	2.04151	650334.33	4191506.46	1.74437

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	1.84321	650434.33	4191506.46	1.95026
650484.33	4191506.46	2.06633	650534.33	4191506.46	2.19120
650584.33	4191506.46	2.32186	650634.33	4191506.46	2.45033
650684.33	4191506.46	2.56224	650734.33	4191506.46	2.63923

650784.33	4191506.46	2.66560	650834.33	4191506.46	2.63443
650884.33	4191506.46	2.55057	650934.33	4191506.46	2.44060
650984.33	4191506.46	2.34604	651034.33	4191506.46	2.27930
651084.33	4191506.46	2.21635	651134.33	4191506.46	2.13989
651184.33	4191506.46	2.05274	651234.33	4191506.46	1.96095
651284.33	4191506.46	1.86779	651334.33	4191506.46	1.77602
650334.33	4191556.46	1.62962	650384.33	4191556.46	1.71442
650434.33	4191556.46	1.80520	650484.33	4191556.46	1.90129
650534.33	4191556.46	1.99994	650584.33	4191556.46	2.09506
650634.33	4191556.46	2.17710	650684.33	4191556.46	2.23496
650734.33	4191556.46	2.25989	650784.33	4191556.46	2.24825
650834.33	4191556.46	2.20091	650884.33	4191556.46	2.12506
650934.33	4191556.46	2.04238	650984.33	4191556.46	1.97794
651034.33	4191556.46	1.93250	651084.33	4191556.46	1.88751
651134.33	4191556.46	1.83281	651184.33	4191556.46	1.76980
651234.33	4191556.46	1.70265	651284.33	4191556.46	1.63363
651334.33	4191556.46	1.56404	650934.45	4191196.80	20.53634
650934.45	4191240.55	13.64076	651071.58	4191520.04	2.13307
650517.18	4191503.06	2.16041	650941.63	4190991.11	20.88127
650974.28	4190903.61	23.25373	650989.95	4190868.34	26.51126
651153.79	4190886.56	23.52127	651170.44	4190902.10	21.44713
651162.67	4190888.23	22.18736	651241.49	4191031.43	14.46347
650569.32	4190797.20	4.71493	650392.81	4190782.21	3.23606

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.27960	650384.33	4190556.46	2.45032
650434.33	4190556.46	2.64983	650484.33	4190556.46	2.88903
650534.33	4190556.46	3.17907	650584.33	4190556.46	3.52615
650634.33	4190556.46	3.92400	650684.33	4190556.46	4.34182
650734.33	4190556.46	4.72219	650784.33	4190556.46	5.00693
650834.33	4190556.46	5.18158	650884.33	4190556.46	5.29615
650934.33	4190556.46	5.42098	650984.33	4190556.46	5.59381
651034.33	4190556.46	5.76739	651084.33	4190556.46	5.84622
651134.33	4190556.46	5.78358	651184.33	4190556.46	5.60178
651234.33	4190556.46	5.36471	651284.33	4190556.46	5.12692
651334.33	4190556.46	4.89512	650334.33	4190606.46	2.50033
650384.33	4190606.46	2.69836	650434.33	4190606.46	2.92569
650484.33	4190606.46	3.19508	650534.33	4190606.46	3.52372
650584.33	4190606.46	3.92764	650634.33	4190606.46	4.41058

650684.33	4190606.46	4.94729	650734.33	4190606.46	5.46914
650784.33	4190606.46	5.89079	650834.33	4190606.46	6.17537
650884.33	4190606.46	6.37017	650934.33	4190606.46	6.55482
650984.33	4190606.46	6.78085	651034.33	4190606.46	6.97931
651084.33	4190606.46	7.02633	651134.33	4190606.46	6.88146
651184.33	4190606.46	6.60316	651234.33	4190606.46	6.28378
651284.33	4190606.46	5.96510	651334.33	4190606.46	5.63335
650334.33	4190656.46	2.74758	650384.33	4190656.46	2.98536
650434.33	4190656.46	3.25462	650484.33	4190656.46	3.56808
650534.33	4190656.46	3.94617	650584.33	4190656.46	4.41634
650634.33	4190656.46	5.00007	650684.33	4190656.46	5.68743
650734.33	4190656.46	6.40448	650784.33	4190656.46	7.03061
650834.33	4190656.46	7.49477	650884.33	4190656.46	7.83085
650934.33	4190656.46	8.11597	650984.33	4190656.46	8.41503
651034.33	4190656.46	8.63131	651084.33	4190656.46	8.61121
651134.33	4190656.46	8.33288	651184.33	4190656.46	7.91316
651234.33	4190656.46	7.46166	651284.33	4190656.46	6.99130
651334.33	4190656.46	6.48795	650334.33	4190706.46	3.01748
650384.33	4190706.46	3.30876	650434.33	4190706.46	3.63848
650484.33	4190706.46	4.01861	650534.33	4190706.46	4.47005
650584.33	4190706.46	5.02735	650634.33	4190706.46	5.73437
650684.33	4190706.46	6.61276	650734.33	4190706.46	7.60101
650784.33	4190706.46	8.53628	650834.33	4190706.46	9.29941
650884.33	4190706.46	9.89312	650934.33	4190706.46	10.35583
650984.33	4190706.46	10.75541	651034.33	4190706.46	10.97226
651084.33	4190706.46	10.81479	651134.33	4190706.46	10.30805

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	9.65470	651234.33	4190706.46	8.95464
651284.33	4190706.46	8.20681	651334.33	4190706.46	7.43621
650334.33	4190756.46	3.30988	650384.33	4190756.46	3.66607
650434.33	4190756.46	4.07594	650484.33	4190756.46	4.55122
650534.33	4190756.46	5.11343	650584.33	4190756.46	5.80087
650634.33	4190756.46	6.67618	650684.33	4190756.46	7.80666
650734.33	4190756.46	9.17735	650784.33	4190756.46	10.59032
650834.33	4190756.46	11.86217	650884.33	4190756.46	12.94715
650934.33	4190756.46	13.74215	650984.33	4190756.46	14.28821
651034.33	4190756.46	14.46098	651084.33	4190756.46	14.00166
651134.33	4190756.46	13.06732	651184.33	4190756.46	11.96337

651234.33	4190756.46	10.77721	651284.33	4190756.46	9.56672
651334.33	4190756.46	8.41701	650334.33	4190806.46	3.62917
650384.33	4190806.46	4.05960	650434.33	4190806.46	4.56786
650484.33	4190806.46	5.16990	650534.33	4190806.46	5.89023
650584.33	4190806.46	6.77333	650634.33	4190806.46	7.90049
650684.33	4190806.46	9.39663	650734.33	4190806.46	11.33884
650784.33	4190806.46	13.52419	650834.33	4190806.46	15.69051
650884.33	4190806.46	17.76500	650934.33	4190806.46	19.22999
650984.33	4190806.46	20.02953	651034.33	4190806.46	19.99130
651084.33	4190806.46	18.80711	651134.33	4190806.46	16.95955
651184.33	4190806.46	14.90266	651234.33	4190806.46	12.83588
651284.33	4190806.46	10.94558	651334.33	4190806.46	9.32638
650334.33	4190856.46	3.97438	650384.33	4190856.46	4.48968
650434.33	4190856.46	5.11431	650484.33	4190856.46	5.87736
650534.33	4190856.46	6.81597	650584.33	4190856.46	7.98683
650634.33	4190856.46	9.49600	650684.33	4190856.46	11.54777
650734.33	4190856.46	14.41882	650784.33	4190856.46	18.00022
650834.33	4190856.46	21.85949	650884.33	4190856.46	26.07182
650934.33	4190856.46	29.05452	650984.33	4190856.46	30.36633
651034.33	4190856.46	29.43834	651084.33	4190856.46	26.28668
651134.33	4190856.46	22.24228	651184.33	4190856.46	18.26350
651234.33	4190856.46	14.85296	651284.33	4190856.46	12.15085
651334.33	4190856.46	10.06819	650334.33	4190906.46	4.34096
650384.33	4190906.46	4.95100	650434.33	4190906.46	5.70728
650484.33	4190906.46	6.66041	650534.33	4190906.46	7.88123
650584.33	4190906.46	9.46855	650634.33	4190906.46	11.57714
650684.33	4190906.46	14.51371	650734.33	4190906.46	18.91516
650784.33	4190906.46	25.36644	650834.33	4190906.46	33.09196
650884.33	4190906.46	42.52921	650934.33	4190906.46	49.55301

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	51.78859	651034.33	4190906.46	47.09447
651084.33	4190906.46	37.66789	651134.33	4190906.46	28.39123
651184.33	4190906.46	21.34544	651234.33	4190906.46	16.44088
651284.33	4190906.46	13.02365	651334.33	4190906.46	10.57752
650334.33	4190956.46	4.72002	650384.33	4190956.46	5.43548
650434.33	4190956.46	6.33957	650484.33	4190956.46	7.50713
650534.33	4190956.46	9.05492	650584.33	4190956.46	11.17142
650634.33	4190956.46	14.16754	650684.33	4190956.46	18.59699

650734.33	4190956.46	25.71749	650784.33	4190956.46	38.47721
650834.33	4190956.46	58.39426	650884.33	4190956.46	84.05989
650934.33	4190956.46	104.35244	650984.33	4190956.46	107.77733
651034.33	4190956.46	82.37823	651084.33	4190956.46	51.26400
651134.33	4190956.46	33.12850	651184.33	4190956.46	23.19766
651234.33	4190956.46	17.25231	651284.33	4190956.46	13.40247
651334.33	4190956.46	10.75697	650334.33	4191006.46	5.06680
650384.33	4191006.46	5.88418	650434.33	4191006.46	6.93625
650484.33	4191006.46	8.32689	650534.33	4191006.46	10.22637
650584.33	4191006.46	12.93125	650634.33	4191006.46	17.00116
650684.33	4191006.46	23.60960	650734.33	4191006.46	35.65817
650784.33	4191006.46	63.79121	650834.33	4191006.46	173.55391
650884.33	4191006.46	246.44126	650934.33	4191006.46	329.75837
650984.33	4191006.46	308.23215	651034.33	4191006.46	118.42137
651084.33	4191006.46	54.84366	651134.33	4191006.46	33.38441
651184.33	4191006.46	22.96309	651234.33	4191006.46	16.96377
651284.33	4191006.46	13.14316	651334.33	4191006.46	10.53889
650334.33	4191056.46	5.29458	650384.33	4191056.46	6.17438
650434.33	4191056.46	7.31607	650484.33	4191056.46	8.84124
650534.33	4191056.46	10.95454	650584.33	4191056.46	14.02514
650634.33	4191056.46	18.78348	650684.33	4191056.46	26.87397
650734.33	4191056.46	42.80509	650784.33	4191056.46	84.37264
650834.33	4191056.46	187.49614	650884.33	4191056.46	179.03957
650934.33	4191056.46	192.30783	650984.33	4191056.46	103.22170
651034.33	4191056.46	61.73346	651084.33	4191056.46	40.46035
651134.33	4191056.46	27.89403	651184.33	4191056.46	20.27588
651234.33	4191056.46	15.43245	651284.33	4191056.46	12.18012
651334.33	4191056.46	9.89026	650334.33	4191106.46	5.32058
650384.33	4191106.46	6.19598	650434.33	4191106.46	7.32937
650484.33	4191106.46	8.83918	650534.33	4191106.46	10.92281
650584.33	4191106.46	13.93030	650634.33	4191106.46	18.53426
650684.33	4191106.46	26.19879	650734.33	4191106.46	40.76053

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	73.49428	650834.33	4191106.46	134.01686
650884.33	4191106.46	147.68191	650934.33	4191106.46	99.44423
650984.33	4191106.46	55.55634	651034.33	4191106.46	37.18807
651084.33	4191106.46	26.98296	651134.33	4191106.46	20.56513
651184.33	4191106.46	16.14593	651234.33	4191106.46	12.95142

651284.33	4191106.46	10.59384	651334.33	4191106.46	8.82223
650334.33	4191156.46	5.16811	650384.33	4191156.46	5.98860
650434.33	4191156.46	7.03816	650484.33	4191156.46	8.41141
650534.33	4191156.46	10.25605	650584.33	4191156.46	12.81579
650634.33	4191156.46	16.53093	650684.33	4191156.46	22.22715
650734.33	4191156.46	31.05287	650784.33	4191156.46	42.34464
650834.33	4191156.46	48.76689	650884.33	4191156.46	44.62559
650934.33	4191156.46	35.45620	650984.33	4191156.46	28.23466
651034.33	4191156.46	22.57649	651084.33	4191156.46	18.14571
651134.33	4191156.46	14.80424	651184.33	4191156.46	12.29032
651234.33	4191156.46	10.34627	651284.33	4191156.46	8.79989
651334.33	4191156.46	7.55252	650334.33	4191206.46	4.92566
650384.33	4191206.46	5.66343	650434.33	4191206.46	6.58510
650484.33	4191206.46	7.75440	650534.33	4191206.46	9.26792
650584.33	4191206.46	11.28184	650634.33	4191206.46	14.02888
650684.33	4191206.46	17.70185	650734.33	4191206.46	21.94758
650784.33	4191206.46	24.95107	650834.33	4191206.46	24.97972
650884.33	4191206.46	22.25868	650934.33	4191206.46	19.34403
650984.33	4191206.46	16.69717	651034.33	4191206.46	14.40682
651084.33	4191206.46	12.41297	651134.33	4191206.46	10.71198
651184.33	4191206.46	9.28719	651234.33	4191206.46	8.10891
651284.33	4191206.46	7.12747	651334.33	4191206.46	6.29787
650334.33	4191256.46	4.63924	650384.33	4191256.46	5.27742
650434.33	4191256.46	6.05326	650484.33	4191256.46	7.01092
650534.33	4191256.46	8.21794	650584.33	4191256.46	9.76068
650634.33	4191256.46	11.68015	650684.33	4191256.46	13.79741
650734.33	4191256.46	15.49519	650784.33	4191256.46	15.93762
650834.33	4191256.46	15.13778	650884.33	4191256.46	13.77155
650934.33	4191256.46	12.49678	650984.33	4191256.46	11.25558
651034.33	4191256.46	10.06020	651084.33	4191256.46	8.95678
651134.33	4191256.46	7.98458	651184.33	4191256.46	7.13479
651234.33	4191256.46	6.39680	651284.33	4191256.46	5.75720
651334.33	4191256.46	5.20087	650334.33	4191306.46	4.31853
650384.33	4191306.46	4.85536	650434.33	4191306.46	5.49818
650484.33	4191306.46	6.28230	650534.33	4191306.46	7.24637

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	8.39474	650634.33	4191306.46	9.62374
650684.33	4191306.46	10.66202	650734.33	4191306.46	11.14190

650784.33	4191306.46	10.90578	650834.33	4191306.46	10.24590
650884.33	4191306.46	9.50300	650934.33	4191306.46	8.84145
650984.33	4191306.46	8.18172	651034.33	4191306.46	7.49585
651084.33	4191306.46	6.81945	651134.33	4191306.46	6.19297
651184.33	4191306.46	5.63299	651234.33	4191306.46	5.13819
651284.33	4191306.46	4.70224	651334.33	4191306.46	4.31548
650334.33	4191356.46	3.98489	650384.33	4191356.46	4.43930
650434.33	4191356.46	4.98211	650484.33	4191356.46	5.63178
650534.33	4191356.46	6.38185	650584.33	4191356.46	7.16685
650634.33	4191356.46	7.84661	650684.33	4191356.46	8.24651
650734.33	4191356.46	8.25155	650784.33	4191356.46	7.92126
650834.33	4191356.46	7.45756	650884.33	4191356.46	7.01874
650934.33	4191356.46	6.63755	650984.33	4191356.46	6.24964
651034.33	4191356.46	5.82988	651084.33	4191356.46	5.39566
651134.33	4191356.46	4.97303	651184.33	4191356.46	4.57960
651234.33	4191356.46	4.22283	651284.33	4191356.46	3.90497
651334.33	4191356.46	3.62236	650334.33	4191406.46	3.67048
650384.33	4191406.46	4.06503	650434.33	4191406.46	4.52738
650484.33	4191406.46	5.04820	650534.33	4191406.46	5.58397
650584.33	4191406.46	6.05434	650634.33	4191406.46	6.36693
650684.33	4191406.46	6.45698	650734.33	4191406.46	6.31864
650784.33	4191406.46	6.03035	650834.33	4191406.46	5.70911
650884.33	4191406.46	5.43305	650934.33	4191406.46	5.19637
650984.33	4191406.46	4.95024	651034.33	4191406.46	4.67828
651084.33	4191406.46	4.38815	651134.33	4191406.46	4.09540
651184.33	4191406.46	3.81265	651234.33	4191406.46	3.54754
651284.33	4191406.46	3.30461	651334.33	4191406.46	3.08621
650334.33	4191456.46	3.39219	650384.33	4191456.46	3.73494
650434.33	4191456.46	4.11329	650484.33	4191456.46	4.49728
650534.33	4191456.46	4.83739	650584.33	4191456.46	5.08010
650634.33	4191456.46	5.18868	650684.33	4191456.46	5.15220
650734.33	4191456.46	4.98964	650784.33	4191456.46	4.76038
650834.33	4191456.46	4.53522	650884.33	4191456.46	4.35313
650934.33	4191456.46	4.19715	650984.33	4191456.46	4.03203
651034.33	4191456.46	3.84663	651084.33	4191456.46	3.64587
651134.33	4191456.46	3.43771	651184.33	4191456.46	3.23065
651234.33	4191456.46	3.03132	651284.33	4191456.46	2.84344
651334.33	4191456.46	2.66998	650334.33	4191506.46	3.14472

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC

650384.33	4191506.46	3.42934	650434.33	4191506.46	3.71510
650484.33	4191506.46	3.96985	650534.33	4191506.46	4.16028
650584.33	4191506.46	4.26420	650634.33	4191506.46	4.27452
650684.33	4191506.46	4.19479	650734.33	4191506.46	4.04423
650784.33	4191506.46	3.86607	650834.33	4191506.46	3.70579
650884.33	4191506.46	3.58117	650934.33	4191506.46	3.47325
650984.33	4191506.46	3.35738	651034.33	4191506.46	3.22570
651084.33	4191506.46	3.08200	651134.33	4191506.46	2.93070
651184.33	4191506.46	2.77624	651234.33	4191506.46	2.62398
651284.33	4191506.46	2.47773	651334.33	4191506.46	2.33948
650334.33	4191556.46	2.91197	650384.33	4191556.46	3.13111
650434.33	4191556.46	3.32746	650484.33	4191556.46	3.47915
650534.33	4191556.46	3.57183	650584.33	4191556.46	3.60131
650634.33	4191556.46	3.56911	650684.33	4191556.46	3.47965
650734.33	4191556.46	3.34967	650784.33	4191556.46	3.21191
650834.33	4191556.46	3.09610	650884.33	4191556.46	3.00818
650934.33	4191556.46	2.93048	650984.33	4191556.46	2.84595
651034.33	4191556.46	2.74935	651084.33	4191556.46	2.64322
651134.33	4191556.46	2.53081	651184.33	4191556.46	2.41402
651234.33	4191556.46	2.29598	651284.33	4191556.46	2.18053
651334.33	4191556.46	2.06986	650934.45	4191196.80	21.36624
650934.45	4191240.55	14.18473	651071.58	4191520.04	2.98663
650517.18	4191503.06	4.14447	650941.63	4190991.11	236.10740
650974.28	4190903.61	50.16473	650989.95	4190868.34	34.03051
651153.79	4190886.56	23.55269	651170.44	4190902.10	22.77234
651162.67	4190888.23	22.66550	651241.49	4191031.43	15.74915
650569.32	4190797.20	6.30409	650392.81	4190782.21	3.93683

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.35155	650384.33	4190556.46	1.43576
650434.33	4190556.46	1.54492	650484.33	4190556.46	1.68686
650534.33	4190556.46	1.86401	650584.33	4190556.46	2.06436
650634.33	4190556.46	2.25593	650684.33	4190556.46	2.39298
650734.33	4190556.46	2.44782	650784.33	4190556.46	2.44846
650834.33	4190556.46	2.46643	650884.33	4190556.46	2.56880
650934.33	4190556.46	2.76061	650984.33	4190556.46	2.97892
651034.33	4190556.46	3.16615	651084.33	4190556.46	3.29297
651134.33	4190556.46	3.33960	651184.33	4190556.46	3.31932
651234.33	4190556.46	3.27067	651284.33	4190556.46	3.21596
651334.33	4190556.46	3.15179	650334.33	4190606.46	1.41976
650384.33	4190606.46	1.50056	650434.33	4190606.46	1.60675

650484.33	4190606.46	1.74893	650534.33	4190606.46	1.93696
650584.33	4190606.46	2.16762	650634.33	4190606.46	2.41013
650684.33	4190606.46	2.60507	650734.33	4190606.46	2.69944
650784.33	4190606.46	2.71263	650834.33	4190606.46	2.74113
650884.33	4190606.46	2.88120	650934.33	4190606.46	3.13711
650984.33	4190606.46	3.41858	651034.33	4190606.46	3.64911
651084.33	4190606.46	3.78634	651134.33	4190606.46	3.81721
651184.33	4190606.46	3.78149	651234.33	4190606.46	3.72302
651284.33	4190606.46	3.64858	651334.33	4190606.46	3.54802
650334.33	4190656.46	1.50099	650384.33	4190656.46	1.57674
650434.33	4190656.46	1.67688	650484.33	4190656.46	1.81320
650534.33	4190656.46	2.00292	650584.33	4190656.46	2.25726
650634.33	4190656.46	2.55582	650684.33	4190656.46	2.82895
650734.33	4190656.46	2.98692	650784.33	4190656.46	3.02432
650834.33	4190656.46	3.06945	650884.33	4190656.46	3.26605
650934.33	4190656.46	3.61636	650984.33	4190656.46	3.98636
651034.33	4190656.46	4.26908	651084.33	4190656.46	4.40843
651134.33	4190656.46	4.41952	651184.33	4190656.46	4.36869
651234.33	4190656.46	4.28542	651284.33	4190656.46	4.16237
651334.33	4190656.46	3.99734	650334.33	4190706.46	1.59752
650384.33	4190706.46	1.66920	650434.33	4190706.46	1.75930
650484.33	4190706.46	1.88390	650534.33	4190706.46	2.06478
650584.33	4190706.46	2.32890	650634.33	4190706.46	2.68098
650684.33	4190706.46	3.05434	650734.33	4190706.46	3.31330
650784.33	4190706.46	3.39692	650834.33	4190706.46	3.46839
650884.33	4190706.46	3.75275	650934.33	4190706.46	4.24766
650984.33	4190706.46	4.74469	651034.33	4190706.46	5.08613
651084.33	4190706.46	5.21660	651134.33	4190706.46	5.20402

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	5.12051	651234.33	4190706.46	4.97064
651284.33	4190706.46	4.75454	651334.33	4190706.46	4.49289
650334.33	4190756.46	1.70633	650384.33	4190756.46	1.77964
650434.33	4190756.46	1.86102	650484.33	4190756.46	1.96775
650534.33	4190756.46	2.12914	650584.33	4190756.46	2.38308
650634.33	4190756.46	2.76952	650684.33	4190756.46	3.25852
650734.33	4190756.46	3.67395	650784.33	4190756.46	3.84756
650834.33	4190756.46	3.96480	650884.33	4190756.46	4.39376
650934.33	4190756.46	5.12144	650984.33	4190756.46	5.80230
651034.33	4190756.46	6.20042	651084.33	4190756.46	6.30594
651134.33	4190756.46	6.24605	651184.33	4190756.46	6.06620
651234.33	4190756.46	5.77647	651284.33	4190756.46	5.41311

651334.33	4190756.46	5.01831	650334.33	4190806.46	1.82083
650384.33	4190806.46	1.90334	650434.33	4190806.46	1.98489
650484.33	4190806.46	2.07701	650534.33	4190806.46	2.20832
650584.33	4190806.46	2.42785	650634.33	4190806.46	2.81091
650684.33	4190806.46	3.40402	650734.33	4190806.46	4.04750
650784.33	4190806.46	4.40370	650834.33	4190806.46	4.60936
650884.33	4190806.46	5.29125	650934.33	4190806.46	6.41265
650984.33	4190806.46	7.35408	651034.33	4190806.46	7.78856
651084.33	4190806.46	7.82557	651134.33	4190806.46	7.61446
651184.33	4190806.46	7.20763	651234.33	4190806.46	6.67871
651284.33	4190806.46	6.10478	651334.33	4190806.46	5.53678
650334.33	4190856.46	1.94104	650384.33	4190856.46	2.03382
650434.33	4190856.46	2.12494	650484.33	4190856.46	2.21641
650534.33	4190856.46	2.32092	650584.33	4190856.46	2.48841
650634.33	4190856.46	2.81644	650684.33	4190856.46	3.44828
650734.33	4190856.46	4.37615	650784.33	4190856.46	5.09107
650834.33	4190856.46	5.48313	650884.33	4190856.46	6.64193
650934.33	4190856.46	8.47401	650984.33	4190856.46	9.76799
651034.33	4190856.46	10.16234	651084.33	4190856.46	9.94884
651134.33	4190856.46	9.32890	651184.33	4190856.46	8.49526
651234.33	4190856.46	7.60884	651284.33	4190856.46	6.75949
651334.33	4190856.46	5.99150	650334.33	4190906.46	2.07429
650384.33	4190906.46	2.17543	650434.33	4190906.46	2.27715
650484.33	4190906.46	2.37613	650534.33	4190906.46	2.47801
650584.33	4190906.46	2.60349	650634.33	4190906.46	2.83599
650684.33	4190906.46	3.38307	650734.33	4190906.46	4.52187
650784.33	4190906.46	5.87975	650834.33	4190906.46	6.70641
650884.33	4190906.46	8.87958	650934.33	4190906.46	12.08487

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	13.76504	651034.33	4190906.46	13.77023
651084.33	4190906.46	12.74574	651134.33	4190906.46	11.27749
651184.33	4190906.46	9.77751	651234.33	4190906.46	8.43133
651284.33	4190906.46	7.28741	651334.33	4190906.46	6.33609
650334.33	4190956.46	2.22036	650384.33	4190956.46	2.33345
650434.33	4190956.46	2.44595	650484.33	4190956.46	2.55539
650534.33	4190956.46	2.66763	650584.33	4190956.46	2.79092
650634.33	4190956.46	2.95758	650684.33	4190956.46	3.31274
650734.33	4190956.46	4.34380	650784.33	4190956.46	6.54533
650834.33	4190956.46	8.47169	650884.33	4190956.46	13.17017
650934.33	4190956.46	19.18387	650984.33	4190956.46	20.70242
651034.33	4190956.46	18.87608	651084.33	4190956.46	15.90520

651134.33	4190956.46	13.08110	651184.33	4190956.46	10.78659
651234.33	4190956.46	9.00902	651284.33	4190956.46	7.63281
651334.33	4190956.46	6.55154	650334.33	4191006.46	2.38505
650384.33	4191006.46	2.51063	650434.33	4191006.46	2.63404
650484.33	4191006.46	2.75555	650534.33	4191006.46	2.88228
650584.33	4191006.46	3.02711	650634.33	4191006.46	3.20802
650684.33	4191006.46	3.47477	650734.33	4191006.46	4.09545
650784.33	4191006.46	6.39961	650834.33	4191006.46	10.80896
650884.33	4191006.46	23.34324	650934.33	4191006.46	34.80705
650984.33	4191006.46	31.73297	651034.33	4191006.46	24.41157
651084.33	4191006.46	18.39199	651134.33	4191006.46	14.20005
651184.33	4191006.46	11.31376	651234.33	4191006.46	9.26875
651284.33	4191006.46	7.76285	651334.33	4191006.46	6.61395
650334.33	4191056.46	2.61426	650384.33	4191056.46	2.76531
650434.33	4191056.46	2.91124	650484.33	4191056.46	3.05013
650534.33	4191056.46	3.18727	650584.33	4191056.46	3.33715
650634.33	4191056.46	3.52931	650684.33	4191056.46	3.84661
650734.33	4191056.46	4.47864	650784.33	4191056.46	5.96102
650834.33	4191056.46	11.72802	650884.33	4191056.46	54.94294
650934.33	4191056.46	65.24507	650984.33	4191056.46	41.73626
651034.33	4191056.46	27.12934	651084.33	4191056.46	19.06802
651134.33	4191056.46	14.28583	651184.33	4191056.46	11.21930
651234.33	4191056.46	9.12503	651284.33	4191056.46	7.61555
651334.33	4191056.46	6.47783	650334.33	4191106.46	2.89016
650384.33	4191106.46	3.10050	650434.33	4191106.46	3.31981
650484.33	4191106.46	3.55085	650534.33	4191106.46	3.80406
650584.33	4191106.46	4.09210	650634.33	4191106.46	4.43700
650684.33	4191106.46	4.91509	650734.33	4191106.46	5.75573

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	7.58893	650834.33	4191106.46	2.18237
650884.33	4191106.46	73.86946	650934.33	4191106.46	69.35845
650984.33	4191106.46	38.15943	651034.33	4191106.46	24.32990
651084.33	4191106.46	17.21135	651134.33	4191106.46	13.03436
651184.33	4191106.46	10.34576	651234.33	4191106.46	8.49378
651284.33	4191106.46	7.14622	651334.33	4191106.46	6.12086
650334.33	4191156.46	3.07480	650384.33	4191156.46	3.33123
650434.33	4191156.46	3.61205	650484.33	4191156.46	3.92986
650534.33	4191156.46	4.30904	650584.33	4191156.46	4.78728
650634.33	4191156.46	5.45289	650684.33	4191156.46	6.54821
650734.33	4191156.46	8.88116	650784.33	4191156.46	15.95750
650834.33	4191156.46	21.22445	650884.33	4191156.46	9.04681

650934.33	4191156.46	18.45495	650984.33	4191156.46	18.92010
651034.33	4191156.46	15.67695	651084.33	4191156.46	12.67937
651134.33	4191156.46	10.38466	651184.33	4191156.46	8.67017
651234.33	4191156.46	7.36849	651284.33	4191156.46	6.35523
651334.33	4191156.46	5.54553	650334.33	4191206.46	3.10071
650384.33	4191206.46	3.36704	650434.33	4191206.46	3.66512
650484.33	4191206.46	4.01685	650534.33	4191206.46	4.46396
650584.33	4191206.46	5.09029	650634.33	4191206.46	6.08354
650684.33	4191206.46	7.87024	650734.33	4191206.46	11.33038
650784.33	4191206.46	15.50346	650834.33	4191206.46	9.96087
650884.33	4191206.46	5.84004	650934.33	4191206.46	5.56147
650984.33	4191206.46	6.66520	651034.33	4191206.46	7.52117
651084.33	4191206.46	7.56060	651134.33	4191206.46	7.11773
651184.33	4191206.46	6.50881	651234.33	4191206.46	5.88416
651284.33	4191206.46	5.30072	651334.33	4191206.46	4.77460
650334.33	4191256.46	3.05030	650384.33	4191256.46	3.32477
650434.33	4191256.46	3.64376	650484.33	4191256.46	4.03789
650534.33	4191256.46	4.55950	650584.33	4191256.46	5.30380
650634.33	4191256.46	6.42555	650684.33	4191256.46	8.05401
650734.33	4191256.46	9.58009	650784.33	4191256.46	8.83527
650834.33	4191256.46	5.37546	650884.33	4191256.46	3.91555
650934.33	4191256.46	3.56431	650984.33	4191256.46	3.72025
651034.33	4191256.46	4.12686	651084.33	4191256.46	4.48164
651134.33	4191256.46	4.64583	651184.33	4191256.46	4.61600
651234.33	4191256.46	4.45192	651284.33	4191256.46	4.21181
651334.33	4191256.46	3.93732	650334.33	4191306.46	2.98948
650384.33	4191306.46	3.27116	650434.33	4191306.46	3.60372
650484.33	4191306.46	4.01368	650534.33	4191306.46	4.54620

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	5.26218	650634.33	4191306.46	6.15150
650684.33	4191306.46	6.89404	650734.33	4191306.46	6.78920
650784.33	4191306.46	5.34804	650834.33	4191306.46	3.60827
650884.33	4191306.46	2.96564	650934.33	4191306.46	2.73829
650984.33	4191306.46	2.74134	651034.33	4191306.46	2.88500
651084.33	4191306.46	3.07810	651134.33	4191306.46	3.24321
651184.33	4191306.46	3.34310	651234.33	4191306.46	3.36258
651284.33	4191306.46	3.30666	651334.33	4191306.46	3.19358
650334.33	4191356.46	2.91207	650384.33	4191356.46	3.18765
650434.33	4191356.46	3.51340	650484.33	4191356.46	3.90878
650534.33	4191356.46	4.39469	650584.33	4191356.46	4.94130
650634.33	4191356.46	5.37908	650684.33	4191356.46	5.40973

650734.33	4191356.46	4.80385	650784.33	4191356.46	3.67374
650834.33	4191356.46	2.76044	650884.33	4191356.46	2.43555
650934.33	4191356.46	2.29568	650984.33	4191356.46	2.26076
651034.33	4191356.46	2.31003	651084.33	4191356.46	2.39887
651134.33	4191356.46	2.49716	651184.33	4191356.46	2.57652
651234.33	4191356.46	2.62369	651284.33	4191356.46	2.63144
651334.33	4191356.46	2.59939	650334.33	4191406.46	2.81076
650384.33	4191406.46	3.07093	650434.33	4191406.46	3.37910
650484.33	4191406.46	3.73595	650534.33	4191406.46	4.10933
650584.33	4191406.46	4.40177	650634.33	4191406.46	4.46914
650684.33	4191406.46	4.19757	650734.33	4191406.46	3.57375
650784.33	4191406.46	2.79941	650834.33	4191406.46	2.28621
650884.33	4191406.46	2.10314	650934.33	4191406.46	2.01384
650984.33	4191406.46	1.97169	651034.33	4191406.46	1.98206
651084.33	4191406.46	2.01812	651134.33	4191406.46	2.06597
651184.33	4191406.46	2.11232	651234.33	4191406.46	2.14331
651284.33	4191406.46	2.15507	651334.33	4191406.46	2.14761
650334.33	4191456.46	2.69440	650384.33	4191456.46	2.93585
650434.33	4191456.46	3.20965	650484.33	4191456.46	3.48904
650534.33	4191456.46	3.70973	650584.33	4191456.46	3.78981
650634.33	4191456.46	3.66751	650684.33	4191456.46	3.32583
650734.33	4191456.46	2.81297	650784.33	4191456.46	2.29453
650834.33	4191456.46	1.98569	650884.33	4191456.46	1.87038
650934.33	4191456.46	1.80860	650984.33	4191456.46	1.77088
651034.33	4191456.46	1.76369	651084.33	4191456.46	1.77423
651134.33	4191456.46	1.78943	651184.33	4191456.46	1.80753
651234.33	4191456.46	1.82142	651284.33	4191456.46	1.82453
651334.33	4191456.46	1.81738	650334.33	4191506.46	2.57241

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.78502	650434.33	4191506.46	2.99926
650484.33	4191506.46	3.17562	650534.33	4191506.46	3.26281
650584.33	4191506.46	3.22038	650634.33	4191506.46	3.03330
650684.33	4191506.46	2.71448	650734.33	4191506.46	2.31961
650784.33	4191506.46	1.96907	650834.33	4191506.46	1.77272
650884.33	4191506.46	1.69480	650934.33	4191506.46	1.64889
650984.33	4191506.46	1.61674	651034.33	4191506.46	1.60041
651084.33	4191506.46	1.59563	651134.33	4191506.46	1.59301
651184.33	4191506.46	1.59072	651234.33	4191506.46	1.59016
651284.33	4191506.46	1.58664	651334.33	4191506.46	1.57724
650334.33	4191556.46	2.44252	650384.33	4191556.46	2.61052
650434.33	4191556.46	2.75137	650484.33	4191556.46	2.83338

650534.33	4191556.46	2.83212	650584.33	4191556.46	2.73593
650634.33	4191556.46	2.54498	650684.33	4191556.46	2.27645
650734.33	4191556.46	1.97982	650784.33	4191556.46	1.73859
650834.33	4191556.46	1.60796	650884.33	4191556.46	1.55216
650934.33	4191556.46	1.51584	650984.33	4191556.46	1.48628
651034.33	4191556.46	1.46569	651084.33	4191556.46	1.45161
651134.33	4191556.46	1.44005	651184.33	4191556.46	1.42721
651234.33	4191556.46	1.41551	651284.33	4191556.46	1.40618
651334.33	4191556.46	1.39591	650934.45	4191196.80	6.36605
650934.45	4191240.55	3.99240	651071.58	4191520.04	1.55528
650517.18	4191503.06	3.27388	650941.63	4190991.11	29.05539
650974.28	4190903.61	13.29093	650989.95	4190868.34	10.62122
651153.79	4190886.56	10.02376	651170.44	4190902.10	10.06246
651162.67	4190888.23	9.85995	651241.49	4191031.43	9.00679
650569.32	4190797.20	2.33783	650392.81	4190782.21	1.85543

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.51319	650384.33	4190556.46	1.61811
650434.33	4190556.46	1.75918	650484.33	4190556.46	1.94768
650534.33	4190556.46	2.18319	650584.33	4190556.46	2.43639
650634.33	4190556.46	2.64572	650684.33	4190556.46	2.75150
650734.33	4190556.46	2.76880	650784.33	4190556.46	2.79906
650834.33	4190556.46	2.94663	650884.33	4190556.46	3.21705
650934.33	4190556.46	3.51361	650984.33	4190556.46	3.75456
651034.33	4190556.46	3.89438	651084.33	4190556.46	3.92279
651134.33	4190556.46	3.88486	651184.33	4190556.46	3.82358
651234.33	4190556.46	3.74282	651284.33	4190556.46	3.63253
651334.33	4190556.46	3.49253	650334.33	4190606.46	1.59221
650384.33	4190606.46	1.69034	650434.33	4190606.46	1.82432
650484.33	4190606.46	2.01242	650534.33	4190606.46	2.26912
650584.33	4190606.46	2.57831	650634.33	4190606.46	2.87000
650684.33	4190606.46	3.04590	650734.33	4190606.46	3.09101
650784.33	4190606.46	3.13912	650834.33	4190606.46	3.34735
650884.33	4190606.46	3.71974	650934.33	4190606.46	4.11150
650984.33	4190606.46	4.40693	651034.33	4190606.46	4.54732
651084.33	4190606.46	4.55543	651134.33	4190606.46	4.50110
651184.33	4190606.46	4.40963	651234.33	4190606.46	4.27306
651284.33	4190606.46	4.09235	651334.33	4190606.46	3.88200
650334.33	4190656.46	1.68830	650384.33	4190656.46	1.77607
650434.33	4190656.46	1.89710	650484.33	4190656.46	2.07416
650534.33	4190656.46	2.33689	650584.33	4190656.46	2.69672
650634.33	4190656.46	3.09212	650684.33	4190656.46	3.37862

650734.33	4190656.46	3.47692	650784.33	4190656.46	3.55385
650834.33	4190656.46	3.85726	650884.33	4190656.46	4.38732
650934.33	4190656.46	4.91606	650984.33	4190656.46	5.27170
651034.33	4190656.46	5.40122	651084.33	4190656.46	5.38393
651134.33	4190656.46	5.28947	651184.33	4190656.46	5.12013
651234.33	4190656.46	4.88067	651284.33	4190656.46	4.59663
651334.33	4190656.46	4.29354	650334.33	4190706.46	1.80190
650384.33	4190706.46	1.88229	650434.33	4190706.46	1.98503
650484.33	4190706.46	2.14052	650534.33	4190706.46	2.38826
650584.33	4190706.46	2.77558	650634.33	4190706.46	3.28648
650684.33	4190706.46	3.74205	650734.33	4190706.46	3.94476
650784.33	4190706.46	4.07278	650834.33	4190706.46	4.53483
650884.33	4190706.46	5.32137	650934.33	4190706.46	6.04873
650984.33	4190706.46	6.46083	651034.33	4190706.46	6.56111
651084.33	4190706.46	6.48555	651134.33	4190706.46	6.27587

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	5.94934	651234.33	4190706.46	5.55108
651284.33	4190706.46	5.12594	651334.33	4190706.46	4.70438
650334.33	4190756.46	1.92713	650384.33	4190756.46	2.01000
650434.33	4190756.46	2.10061	650484.33	4190756.46	2.22497
650534.33	4190756.46	2.43389	650584.33	4190756.46	2.80794
650634.33	4190756.46	3.41310	650684.33	4190756.46	4.11053
650734.33	4190756.46	4.52367	650784.33	4190756.46	4.75302
650834.33	4190756.46	5.49574	650884.33	4190756.46	6.72138
650934.33	4190756.46	7.72963	650984.33	4190756.46	8.17209
651034.33	4190756.46	8.18629	651084.33	4190756.46	7.92493
651134.33	4190756.46	7.45479	651184.33	4190756.46	6.86734
651234.33	4190756.46	6.24469	651284.33	4190756.46	5.63864
651334.33	4190756.46	5.07801	650334.33	4190806.46	2.05888
650384.33	4190806.46	2.15223	650434.33	4190806.46	2.24490
650484.33	4190806.46	2.34668	650534.33	4190806.46	2.50262
650584.33	4190806.46	2.81160	650634.33	4190806.46	3.43287
650684.33	4190806.46	4.41183	650734.33	4190806.46	5.23242
650784.33	4190806.46	5.68012	650834.33	4190806.46	6.96266
650884.33	4190806.46	8.99239	650934.33	4190806.46	10.37650
650984.33	4190806.46	10.74993	651034.33	4190806.46	10.44646
651084.33	4190806.46	9.70562	651134.33	4190806.46	8.76301
651184.33	4190806.46	7.79280	651234.33	4190806.46	6.88437
651284.33	4190806.46	6.07673	651334.33	4190806.46	5.38022
650334.33	4190856.46	2.20362	650384.33	4190856.46	2.30726
650434.33	4190856.46	2.40792	650484.33	4190856.46	2.51121

650534.33	4190856.46	2.63267	650584.33	4190856.46	2.84505
650634.33	4190856.46	3.35431	650684.33	4190856.46	4.49613
650734.33	4190856.46	6.01619	650784.33	4190856.46	6.98458
650834.33	4190856.46	9.44637	650884.33	4190856.46	13.05685
650934.33	4190856.46	14.81765	650984.33	4190856.46	14.65580
651034.33	4190856.46	13.36937	651084.33	4190856.46	11.67579
651134.33	4190856.46	10.02153	651184.33	4190856.46	8.58113
651234.33	4190856.46	7.38249	651284.33	4190856.46	6.39889
651334.33	4190856.46	5.59514	650334.33	4190906.46	2.36413
650384.33	4190906.46	2.47904	650434.33	4190906.46	2.59111
650484.33	4190906.46	2.70608	650534.33	4190906.46	2.83236
650584.33	4190906.46	2.99502	650634.33	4190906.46	3.31324
650684.33	4190906.46	4.26153	650734.33	4190906.46	6.57737
650784.33	4190906.46	8.85889	650834.33	4190906.46	14.36341
650884.33	4190906.46	21.25069	650934.33	4190906.46	22.53836

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	20.03087	651034.33	4190906.46	16.52265
651084.33	4190906.46	13.39837	651134.33	4190906.46	10.95566
651184.33	4190906.46	9.10522	651234.33	4190906.46	7.69108
651284.33	4190906.46	6.58856	651334.33	4190906.46	5.71430
650334.33	4190956.46	2.54973	650384.33	4190956.46	2.67512
650434.33	4190956.46	2.79802	650484.33	4190956.46	2.92591
650534.33	4190956.46	3.07366	650584.33	4190956.46	3.26166
650634.33	4190956.46	3.53563	650684.33	4190956.46	4.09828
650734.33	4190956.46	6.19005	650784.33	4190956.46	11.20097
650834.33	4190956.46	26.62221	650884.33	4190956.46	39.55732
650934.33	4190956.46	34.23648	650984.33	4190956.46	25.36482
651034.33	4190956.46	18.75360	651084.33	4190956.46	14.34939
651134.33	4190956.46	11.37892	651184.33	4190956.46	9.29703
651234.33	4190956.46	7.77400	651284.33	4190956.46	6.61660
651334.33	4190956.46	5.71322	650334.33	4191006.46	2.82585
650384.33	4191006.46	2.98224	650434.33	4191006.46	3.13223
650484.33	4191006.46	3.27989	650534.33	4191006.46	3.43649
650584.33	4191006.46	3.62632	650634.33	4191006.46	3.93407
650684.33	4191006.46	4.58437	650734.33	4191006.46	6.12721
650784.33	4191006.46	10.69276	650834.33	4191006.46	65.25557
650884.33	4191006.46	71.21715	650934.33	4191006.46	42.65472
650984.33	4191006.46	27.20179	651034.33	4191006.46	18.99795
651084.33	4191006.46	14.20037	651134.33	4191006.46	11.14369
651184.33	4191006.46	9.06281	651234.33	4191006.46	7.56551
651284.33	4191006.46	6.43773	651334.33	4191006.46	5.56124

650334.33	4191056.46	3.15708	650384.33	4191056.46	3.39213
650434.33	4191056.46	3.64512	650484.33	4191056.46	3.92992
650534.33	4191056.46	4.26395	650584.33	4191056.46	4.67986
650634.33	4191056.46	5.27412	650684.33	4191056.46	6.32219
650734.33	4191056.46	8.47074	650784.33	4191056.46	1.79729
650834.33	4191056.46	56.45501	650884.33	4191056.46	62.04425
650934.33	4191056.46	35.55039	650984.33	4191056.46	23.14935
651034.33	4191056.46	16.58356	651084.33	4191056.46	12.66182
651134.33	4191056.46	10.10708	651184.33	4191056.46	8.33177
651234.33	4191056.46	7.03154	651284.33	4191056.46	6.03708
651334.33	4191056.46	5.25313	650334.33	4191106.46	3.34809
650384.33	4191106.46	3.63379	650434.33	4191106.46	3.95885
650484.33	4191106.46	4.34975	650534.33	4191106.46	4.85036
650584.33	4191106.46	5.56796	650634.33	4191106.46	6.79525
650684.33	4191106.46	9.50778	650734.33	4191106.46	17.46530

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	19.65322	650834.33	4191106.46	8.42656
650884.33	4191106.46	13.02874	650934.33	4191106.46	15.31116
650984.33	4191106.46	13.78523	651034.33	4191106.46	11.64221
651084.33	4191106.46	9.77220	651134.33	4191106.46	8.28430
651184.33	4191106.46	7.11183	651234.33	4191106.46	6.17705
651284.33	4191106.46	5.41759	651334.33	4191106.46	4.79050
650334.33	4191156.46	3.35745	650384.33	4191156.46	3.65818
650434.33	4191156.46	4.01685	650484.33	4191156.46	4.47867
650534.33	4191156.46	5.13391	650584.33	4191156.46	6.17407
650634.33	4191156.46	8.00259	650684.33	4191156.46	11.23465
650734.33	4191156.46	14.02533	650784.33	4191156.46	8.73179
650834.33	4191156.46	5.36159	650884.33	4191156.46	4.97046
650934.33	4191156.46	5.72488	650984.33	4191156.46	6.54852
651034.33	4191156.46	6.78407	651084.33	4191156.46	6.55346
651134.33	4191156.46	6.10645	651184.33	4191156.46	5.59509
651234.33	4191156.46	5.08949	651284.33	4191156.46	4.61732
651334.33	4191156.46	4.18778	650334.33	4191206.46	3.31193
650384.33	4191206.46	3.63439	650434.33	4191206.46	4.03354
650484.33	4191206.46	4.56083	650534.33	4191206.46	5.30727
650584.33	4191206.46	6.40619	650634.33	4191206.46	7.88808
650684.33	4191206.46	9.00941	650734.33	4191206.46	7.97106
650784.33	4191206.46	4.93691	650834.33	4191206.46	3.68629
650884.33	4191206.46	3.35555	650934.33	4191206.46	3.45561
650984.33	4191206.46	3.78727	651034.33	4191206.46	4.11221
651084.33	4191206.46	4.30002	651134.33	4191206.46	4.32188

651184.33	4191206.46	4.21319	651234.33	4191206.46	4.02132
651284.33	4191206.46	3.78563	651334.33	4191206.46	3.53440
650334.33	4191256.46	3.25424	650384.33	4191256.46	3.58612
650434.33	4191256.46	3.99387	650484.33	4191256.46	4.51987
650534.33	4191256.46	5.21194	650584.33	4191256.46	6.02133
650634.33	4191256.46	6.59963	650684.33	4191256.46	6.34358
650734.33	4191256.46	4.94752	650784.33	4191256.46	3.40992
650834.33	4191256.46	2.84377	650884.33	4191256.46	2.63398
650934.33	4191256.46	2.62336	650984.33	4191256.46	2.73980
651034.33	4191256.46	2.90778	651084.33	4191256.46	3.05954
651134.33	4191256.46	3.16084	651184.33	4191256.46	3.19446
651234.33	4191256.46	3.15929	651284.33	4191256.46	3.06811
651334.33	4191256.46	2.94004	650334.33	4191306.46	3.16365
650384.33	4191306.46	3.48606	650434.33	4191306.46	3.87533
650484.33	4191306.46	4.34408	650534.33	4191306.46	4.84442

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	5.20054	650634.33	4191306.46	5.15090
650684.33	4191306.46	4.52725	650734.33	4191306.46	3.47334
650784.33	4191306.46	2.65430	650834.33	4191306.46	2.36189
650884.33	4191306.46	2.23352	650934.33	4191306.46	2.19451
650984.33	4191306.46	2.23282	651034.33	4191306.46	2.30783
651084.33	4191306.46	2.39504	651134.33	4191306.46	2.46793
651184.33	4191306.46	2.51351	651234.33	4191306.46	2.52519
651284.33	4191306.46	2.50181	651334.33	4191306.46	2.44698
650334.33	4191356.46	3.04252	650384.33	4191356.46	3.34521
650434.33	4191356.46	3.68998	650484.33	4191356.46	4.03539
650534.33	4191356.46	4.28251	650584.33	4191356.46	4.30310
650634.33	4191356.46	4.00979	650684.33	4191356.46	3.40633
650734.33	4191356.46	2.68879	650784.33	4191356.46	2.22177
650834.33	4191356.46	2.05337	650884.33	4191356.46	1.97033
650934.33	4191356.46	1.92787	650984.33	4191356.46	1.93322
651034.33	4191356.46	1.96284	651084.33	4191356.46	2.00283
651134.33	4191356.46	2.04355	651184.33	4191356.46	2.07100
651234.33	4191356.46	2.08148	651284.33	4191356.46	2.07520
651334.33	4191356.46	2.05313	650334.33	4191406.46	2.90507
650384.33	4191406.46	3.16904	650434.33	4191406.46	3.42983
650484.33	4191406.46	3.62292	650534.33	4191406.46	3.67452
650584.33	4191406.46	3.53472	650634.33	4191406.46	3.19522
650684.33	4191406.46	2.70723	650734.33	4191406.46	2.22589
650784.33	4191406.46	1.94124	650834.33	4191406.46	1.83363
650884.33	4191406.46	1.77530	650934.33	4191406.46	1.73851

650984.33	4191406.46	1.72887	651034.33	4191406.46	1.73579
651084.33	4191406.46	1.74655	651134.33	4191406.46	1.75983
651184.33	4191406.46	1.77092	651234.33	4191406.46	1.77266
651284.33	4191406.46	1.76507	651334.33	4191406.46	1.75069
650334.33	4191456.46	2.75078	650384.33	4191456.46	2.95150
650434.33	4191456.46	3.10877	650484.33	4191456.46	3.17662
650534.33	4191456.46	3.12111	650584.33	4191456.46	2.93166
650634.33	4191456.46	2.62271	650684.33	4191456.46	2.24893
650734.33	4191456.46	1.92183	650784.33	4191456.46	1.73916
650834.33	4191456.46	1.66582	650884.33	4191456.46	1.62212
650934.33	4191456.46	1.59047	650984.33	4191456.46	1.57284
651034.33	4191456.46	1.56565	651084.33	4191456.46	1.56082
651134.33	4191456.46	1.55577	651184.33	4191456.46	1.55266
651234.33	4191456.46	1.54806	651284.33	4191456.46	1.53850
651334.33	4191456.46	1.52436	650334.33	4191506.46	2.57200

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.69937	650434.33	4191506.46	2.76705
650484.33	4191506.46	2.75471	650534.33	4191506.46	2.65406
650584.33	4191506.46	2.46674	650634.33	4191506.46	2.20922
650684.33	4191506.46	1.92861	650734.33	4191506.46	1.70269
650784.33	4191506.46	1.58030	650834.33	4191506.46	1.52730
650884.33	4191506.46	1.49216	650934.33	4191506.46	1.46295
650984.33	4191506.46	1.44174	651034.33	4191506.46	1.42658
651084.33	4191506.46	1.41389	651134.33	4191506.46	1.39997
651184.33	4191506.46	1.38672	651234.33	4191506.46	1.37626
651284.33	4191506.46	1.36580	651334.33	4191506.46	1.35233
650334.33	4191556.46	2.37091	650384.33	4191556.46	2.43400
650434.33	4191556.46	2.44117	650484.33	4191556.46	2.38723
650534.33	4191556.46	2.27296	650584.33	4191556.46	2.10376
650634.33	4191556.46	1.89591	650684.33	4191556.46	1.68660
650734.33	4191556.46	1.52837	650784.33	4191556.46	1.44333
650834.33	4191556.46	1.40307	650884.33	4191556.46	1.37376
650934.33	4191556.46	1.34648	650984.33	4191556.46	1.32476
651034.33	4191556.46	1.30700	651084.33	4191556.46	1.29104
651134.33	4191556.46	1.27445	651184.33	4191556.46	1.25672
651234.33	4191556.46	1.24116	651284.33	4191556.46	1.22857
651334.33	4191556.46	1.21604	650934.45	4191196.80	3.71645
650934.45	4191240.55	2.82412	651071.58	4191520.04	1.38202
650517.18	4191503.06	2.72731	650941.63	4190991.11	38.72462
650974.28	4190903.61	20.31356	650989.95	4190868.34	15.66698
651153.79	4190886.56	9.92520	651170.44	4190902.10	9.52941

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.46217	650384.33	4190556.46	1.55099
650434.33	4190556.46	1.66908	650484.33	4190556.46	1.82819
650534.33	4190556.46	2.03689	650584.33	4190556.46	2.28453
650634.33	4190556.46	2.52785	650684.33	4190556.46	2.69913
650734.33	4190556.46	2.76093	650784.33	4190556.46	2.76852
650834.33	4190556.46	2.83676	650884.33	4190556.46	3.04006
650934.33	4190556.46	3.33313	650984.33	4190556.46	3.61319
651034.33	4190556.46	3.81739	651084.33	4190556.46	3.91012
651134.33	4190556.46	3.90495	651184.33	4190556.46	3.85488
651234.33	4190556.46	3.78724	651284.33	4190556.46	3.69602
651334.33	4190556.46	3.57385	650334.33	4190606.46	1.54437
650384.33	4190606.46	1.62725	650434.33	4190606.46	1.73817
650484.33	4190606.46	1.89169	650534.33	4190606.46	2.10667
650584.33	4190606.46	2.38889	650634.33	4190606.46	2.70150
650684.33	4190606.46	2.95564	650734.33	4190606.46	3.07062
650784.33	4190606.46	3.09490	650834.33	4190606.46	3.19351
650884.33	4190606.46	3.47811	650934.33	4190606.46	3.87541
650984.33	4190606.46	4.23715	651034.33	4190606.46	4.47328
651084.33	4190606.46	4.55267	651134.33	4190606.46	4.52887
651184.33	4190606.46	4.46003	651234.33	4190606.46	4.35221
651284.33	4190606.46	4.19779	651334.33	4190606.46	4.00422
650334.33	4190656.46	1.64314	650384.33	4190656.46	1.71950
650434.33	4190656.46	1.81854	650484.33	4190656.46	1.95927
650534.33	4190656.46	2.16740	650584.33	4190656.46	2.47065
650634.33	4190656.46	2.85691	650684.33	4190656.46	3.22583
650734.33	4190656.46	3.43216	650784.33	4190656.46	3.48865
650834.33	4190656.46	3.63433	650884.33	4190656.46	4.04650
650934.33	4190656.46	4.60170	650984.33	4190656.46	5.07356
651034.33	4190656.46	5.33551	651084.33	4190656.46	5.39322
651134.33	4190656.46	5.34196	651184.33	4190656.46	5.21941
651234.33	4190656.46	5.02134	651284.33	4190656.46	4.76208
651334.33	4190656.46	4.46925	650334.33	4190706.46	1.75576
650384.33	4190706.46	1.83140	650434.33	4190706.46	1.91805
650484.33	4190706.46	2.03824	650534.33	4190706.46	2.22588
650584.33	4190706.46	2.52520	650634.33	4190706.46	2.97159
650684.33	4190706.46	3.48850	650734.33	4190706.46	3.84985
650784.33	4190706.46	3.97299	650834.33	4190706.46	4.19644
650884.33	4190706.46	4.82118	650934.33	4190706.46	5.62492

650984.33	4190706.46	6.24066	651034.33	4190706.46	6.51185
651084.33	4190706.46	6.52970	651134.33	4190706.46	6.40119

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	6.14280	651234.33	4190706.46	5.78400
651284.33	4190706.46	5.37260	651334.33	4190706.46	4.94810
650334.33	4190756.46	1.87516	650384.33	4190756.46	1.95890
650434.33	4190756.46	2.04274	650484.33	4190756.46	2.14283
650534.33	4190756.46	2.29402	650584.33	4190756.46	2.55927
650634.33	4190756.46	3.02409	650684.33	4190756.46	3.70080
650734.33	4190756.46	4.32072	650784.33	4190756.46	4.59055
650834.33	4190756.46	4.95223	650884.33	4190756.46	5.95291
650934.33	4190756.46	7.16131	650984.33	4190756.46	7.94779
651034.33	4190756.46	8.18988	651084.33	4190756.46	8.08672
651134.33	4190756.46	7.73610	651184.33	4190756.46	7.21203
651234.33	4190756.46	6.60610	651284.33	4190756.46	5.98841
651334.33	4190756.46	5.40055	650334.33	4190806.46	2.00093
650384.33	4190806.46	2.09471	650434.33	4190806.46	2.18766
650484.33	4190806.46	2.28105	650534.33	4190806.46	2.39733
650584.33	4190806.46	2.60016	650634.33	4190806.46	3.01525
650684.33	4190806.46	3.79810	650734.33	4190806.46	4.79977
650784.33	4190806.46	5.39466	650834.33	4190806.46	6.02212
650884.33	4190806.46	7.74631	650934.33	4190806.46	9.63780
650984.33	4190806.46	10.58630	651034.33	4190806.46	10.65489
651084.33	4190806.46	10.15634	651134.33	4190806.46	9.31580
651184.33	4190806.46	8.35355	651234.33	4190806.46	7.40632
651284.33	4190806.46	6.53901	651334.33	4190806.46	5.77838
650334.33	4190856.46	2.14018	650384.33	4190856.46	2.24330
650434.33	4190856.46	2.34606	650484.33	4190856.46	2.44648
650534.33	4190856.46	2.55341	650584.33	4190856.46	2.69737
650634.33	4190856.46	2.99720	650684.33	4190856.46	3.72400
650734.33	4190856.46	5.13158	650784.33	4190856.46	6.42412
650834.33	4190856.46	7.62811	650884.33	4190856.46	10.92504
650934.33	4190856.46	13.97193	650984.33	4190856.46	14.86431
651034.33	4190856.46	14.17533	651084.33	4190856.46	12.66814
651134.33	4190856.46	10.96865	651184.33	4190856.46	9.39943
651234.33	4190856.46	8.06240	651284.33	4190856.46	6.95746
651334.33	4190856.46	6.05240	650334.33	4190906.46	2.29287
650384.33	4190906.46	2.40865	650434.33	4190906.46	2.52189
650484.33	4190906.46	2.63441	650534.33	4190906.46	2.75229
650584.33	4190906.46	2.88809	650634.33	4190906.46	3.08699
650684.33	4190906.46	3.57455	650734.33	4190906.46	5.03461

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	21.69676	651034.33	4190906.46	18.56489
651084.33	4190906.46	15.15611	651134.33	4190906.46	12.31921
651184.33	4190906.46	10.13993	651234.33	4190906.46	8.48666
651284.33	4190906.46	7.21239	651334.33	4190906.46	6.21089
650334.33	4190956.46	2.47050	650384.33	4190956.46	2.59778
650434.33	4190956.46	2.72163	650484.33	4190956.46	2.84504
650534.33	4190956.46	2.97867	650584.33	4190956.46	3.13935
650634.33	4190956.46	3.35323	650684.33	4190956.46	3.69692
650734.33	4190956.46	4.60619	650784.33	4190956.46	8.08064
650834.33	4190956.46	14.68104	650884.33	4190956.46	34.19752
650934.33	4190956.46	38.45695	650984.33	4190956.46	30.41176
651034.33	4190956.46	22.34932	651084.33	4190956.46	16.74693
651134.33	4190956.46	13.01190	651184.33	4190956.46	10.45410
651234.33	4190956.46	8.62964	651284.33	4190956.46	7.27170
651334.33	4190956.46	6.22729	650334.33	4191006.46	2.72637
650384.33	4191006.46	2.88494	650434.33	4191006.46	3.03791
650484.33	4191006.46	3.18524	650534.33	4191006.46	3.33408
650584.33	4191006.46	3.49905	650634.33	4191006.46	3.71931
650684.33	4191006.46	4.12765	650734.33	4191006.46	5.04789
650784.33	4191006.46	7.21765	650834.33	4191006.46	17.88043
650884.33	4191006.46	81.68443	650934.33	4191006.46	57.98579
650984.33	4191006.46	35.15057	651034.33	4191006.46	23.32294
651084.33	4191006.46	16.79005	651134.33	4191006.46	12.82301
651184.33	4191006.46	10.22221	651234.33	4191006.46	8.40970
651284.33	4191006.46	7.07885	651334.33	4191006.46	6.06233
650334.33	4191056.46	3.01956	650384.33	4191056.46	3.24615
650434.33	4191056.46	3.48588	650484.33	4191056.46	3.74831
650534.33	4191056.46	4.04785	650584.33	4191056.46	4.40601
650634.33	4191056.46	4.86728	650684.33	4191056.46	5.58576
650734.33	4191056.46	6.97996	650784.33	4191056.46	8.67450
650834.33	4191056.46	0.00000	650884.33	4191056.46	83.38537
650934.33	4191056.46	49.25199	650984.33	4191056.46	29.63593
651034.33	4191056.46	20.12088	651084.33	4191056.46	14.81999
651134.33	4191056.46	11.53399	651184.33	4191056.46	9.33480
651234.33	4191056.46	7.77348	651284.33	4191056.46	6.60829
651334.33	4191056.46	5.70549	650334.33	4191106.46	3.18902
650384.33	4191106.46	3.45853	650434.33	4191106.46	3.75754
650484.33	4191106.46	4.10450	650534.33	4191106.46	4.53134

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	23.11726	650834.33	4191106.46	9.88695
650884.33	4191106.46	9.71717	650934.33	4191106.46	14.97903
650984.33	4191106.46	15.08820	651034.33	4191106.46	13.01613
651084.33	4191106.46	10.90040	651134.33	4191106.46	9.16571
651184.33	4191106.46	7.80153	651234.33	4191106.46	6.72674
651284.33	4191106.46	5.86403	651334.33	4191106.46	5.15906
650334.33	4191156.46	3.19491	650384.33	4191156.46	3.47407
650434.33	4191156.46	3.79418	650484.33	4191156.46	4.18607
650534.33	4191156.46	4.71000	650584.33	4191156.46	5.48662
650634.33	4191156.46	6.77406	650684.33	4191156.46	9.10841
650734.33	4191156.46	12.81428	650784.33	4191156.46	13.14951
650834.33	4191156.46	6.58591	650884.33	4191156.46	5.06186
650934.33	4191156.46	5.22479	650984.33	4191156.46	6.17033
651034.33	4191156.46	6.77407	651084.33	4191156.46	6.77606
651134.33	4191156.46	6.42203	651184.33	4191156.46	5.92656
651234.33	4191156.46	5.40621	651284.33	4191156.46	4.90771
651334.33	4191156.46	4.44858	650334.33	4191206.46	3.14318
650384.33	4191206.46	3.43573	650434.33	4191206.46	3.78401
650484.33	4191206.46	4.22637	650534.33	4191206.46	4.82813
650584.33	4191206.46	5.69954	650634.33	4191206.46	6.97449
650684.33	4191206.46	8.49350	650734.33	4191206.46	9.00020
650784.33	4191206.46	6.80721	650834.33	4191206.46	4.21937
650884.33	4191206.46	3.50730	650934.33	4191206.46	3.36905
650984.33	4191206.46	3.59353	651034.33	4191206.46	3.95156
651084.33	4191206.46	4.23071	651134.33	4191206.46	4.34881
651184.33	4191206.46	4.30905	651234.33	4191206.46	4.15789
651284.33	4191206.46	3.94167	651334.33	4191206.46	3.69451
650334.33	4191256.46	3.08212	650384.33	4191256.46	3.38193
650434.33	4191256.46	3.74038	650484.33	4191256.46	4.18997
650534.33	4191256.46	4.77921	650584.33	4191256.46	5.53991
650634.33	4191256.46	6.32725	650684.33	4191256.46	6.65384
650734.33	4191256.46	5.93355	650784.33	4191256.46	4.25722
650834.33	4191256.46	3.10257	650884.33	4191256.46	2.74388
650934.33	4191256.46	2.61402	650984.33	4191256.46	2.66834
651034.33	4191256.46	2.81535	651084.33	4191256.46	2.98483
651134.33	4191256.46	3.11959	651184.33	4191256.46	3.19470
651234.33	4191256.46	3.19869	651284.33	4191256.46	3.13749
651334.33	4191256.46	3.02772	650334.33	4191306.46	2.99714

650384.33	4191306.46	3.28840	650434.33	4191306.46	3.63554
650484.33	4191306.46	4.05754	650534.33	4191306.46	4.55271

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	5.02829	650634.33	4191306.46	5.25716
650684.33	4191306.46	4.98984	650734.33	4191306.46	4.14391
650784.33	4191306.46	3.08373	650834.33	4191306.46	2.50038
650884.33	4191306.46	2.30568	650934.33	4191306.46	2.20994
650984.33	4191306.46	2.20814	651034.33	4191306.46	2.26512
651084.33	4191306.46	2.34946	651134.33	4191306.46	2.43394
651184.33	4191306.46	2.49704	651234.33	4191306.46	2.52968
651284.33	4191306.46	2.52682	651334.33	4191306.46	2.48935
650334.33	4191356.46	2.88603	650384.33	4191356.46	3.16048
650434.33	4191356.46	3.48266	650484.33	4191356.46	3.83688
650534.33	4191356.46	4.16034	650584.33	4191356.46	4.33383
650634.33	4191356.46	4.23725	650684.33	4191356.46	3.81118
650734.33	4191356.46	3.12082	650784.33	4191356.46	2.46114
650834.33	4191356.46	2.13545	650884.33	4191356.46	2.01906
650934.33	4191356.46	1.95010	650984.33	4191356.46	1.92829
651034.33	4191356.46	1.94683	651084.33	4191356.46	1.98177
651134.33	4191356.46	2.02432	651184.33	4191356.46	2.06135
651234.33	4191356.46	2.08203	651284.33	4191356.46	2.08580
651334.33	4191356.46	2.07289	650334.33	4191406.46	2.76155
650384.33	4191406.46	3.01131	650434.33	4191406.46	3.28060
650484.33	4191406.46	3.52475	650534.33	4191406.46	3.67105
650584.33	4191406.46	3.65106	650634.33	4191406.46	3.42994
650684.33	4191406.46	3.01894	650734.33	4191406.46	2.50614
650784.33	4191406.46	2.08629	650834.33	4191406.46	1.88783
650884.33	4191406.46	1.81034	650934.33	4191406.46	1.75942
650984.33	4191406.46	1.73378	651034.33	4191406.46	1.73305
651084.33	4191406.46	1.74243	651134.33	4191406.46	1.75466
651184.33	4191406.46	1.76831	651234.33	4191406.46	1.77630
651284.33	4191406.46	1.77400	651334.33	4191406.46	1.76347
650334.33	4191456.46	2.62895	650384.33	4191456.46	2.83662
650434.33	4191456.46	3.02638	650484.33	4191456.46	3.15435
650534.33	4191456.46	3.17645	650584.33	4191456.46	3.06766
650634.33	4191456.46	2.82628	650684.33	4191456.46	2.48077
650734.33	4191456.46	2.10809	650784.33	4191456.46	1.83250
650834.33	4191456.46	1.70401	650884.33	4191456.46	1.64889
650934.33	4191456.46	1.60937	650984.33	4191456.46	1.58354
651034.33	4191456.46	1.57102	651084.33	4191456.46	1.56592
651134.33	4191456.46	1.56082	651184.33	4191456.46	1.55675

651234.33	4191456.46	1.55381	651284.33	4191456.46	1.54742
651334.33	4191456.46	1.53584	650334.33	4191506.46	2.48152

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.63162	650434.33	4191506.46	2.73916
650484.33	4191506.46	2.77724	650534.33	4191506.46	2.73034
650584.33	4191506.46	2.59409	650634.33	4191506.46	2.37471
650684.33	4191506.46	2.09921	650734.33	4191506.46	1.82958
650784.33	4191506.46	1.64344	650834.33	4191506.46	1.55594
650884.33	4191506.46	1.51420	650934.33	4191506.46	1.48100
650984.33	4191506.46	1.45519	651034.33	4191506.46	1.43664
651084.33	4191506.46	1.42316	651134.33	4191506.46	1.41030
651184.33	4191506.46	1.39618	651234.33	4191506.46	1.38420
651284.33	4191506.46	1.37429	651334.33	4191506.46	1.36280
650334.33	4191556.46	2.31441	650384.33	4191556.46	2.40542
650434.33	4191556.46	2.44788	650484.33	4191556.46	2.43108
650534.33	4191556.46	2.35276	650584.33	4191556.46	2.21523
650634.33	4191556.46	2.02708	650684.33	4191556.46	1.81211
650734.33	4191556.46	1.61659	650784.33	4191556.46	1.48803
650834.33	4191556.46	1.42563	650884.33	4191556.46	1.39261
650934.33	4191556.46	1.36373	650984.33	4191556.46	1.33853
651034.33	4191556.46	1.31873	651084.33	4191556.46	1.30195
651134.33	4191556.46	1.28606	651184.33	4191556.46	1.26879
651234.33	4191556.46	1.25157	651284.33	4191556.46	1.23746
651334.33	4191556.46	1.22533	650934.45	4191196.80	3.59364
650934.45	4191240.55	2.80004	651071.58	4191520.04	1.39188
650517.18	4191503.06	2.78385	650941.63	4190991.11	50.18913
650974.28	4190903.61	21.60516	650989.95	4190868.34	16.18243
651153.79	4190886.56	11.03217	651170.44	4190902.10	10.62731
651162.67	4190888.23	10.71400	651241.49	4191031.43	7.94014
650569.32	4190797.20	2.50931	650392.81	4190782.21	2.04264

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.49199	650384.33	4190556.46	1.56017
650434.33	4190556.46	1.64804	650484.33	4190556.46	1.76644
650534.33	4190556.46	1.93141	650584.33	4190556.46	2.16107
650634.33	4190556.46	2.45471	650684.33	4190556.46	2.76381
650734.33	4190556.46	2.99280	650784.33	4190556.46	3.07906
650834.33	4190556.46	3.10417	650884.33	4190556.46	3.23809
650934.33	4190556.46	3.55866	650984.33	4190556.46	3.95938
651034.33	4190556.46	4.30061	651084.33	4190556.46	4.50340
651134.33	4190556.46	4.55456	651184.33	4190556.46	4.51823
651234.33	4190556.46	4.44187	651284.33	4190556.46	4.32438
651334.33	4190556.46	4.16045	650334.33	4190606.46	1.59043
650384.33	4190606.46	1.65826	650434.33	4190606.46	1.73806
650484.33	4190606.46	1.84412	650534.33	4190606.46	1.99656
650584.33	4190606.46	2.22290	650634.33	4190606.46	2.54714
650684.33	4190606.46	2.94147	650734.33	4190606.46	3.28685
650784.33	4190606.46	3.45135	650834.33	4190606.46	3.50318
650884.33	4190606.46	3.69921	650934.33	4190606.46	4.16123
650984.33	4190606.46	4.71509	651034.33	4190606.46	5.14991
651084.33	4190606.46	5.36299	651134.33	4190606.46	5.39021
651184.33	4190606.46	5.32345	651234.33	4190606.46	5.18498
651284.33	4190606.46	4.97185	651334.33	4190606.46	4.70306
650334.33	4190656.46	1.69722	650384.33	4190656.46	1.77156
650434.33	4190656.46	1.84844	650484.33	4190656.46	1.93967
650534.33	4190656.46	2.07100	650584.33	4190656.46	2.27796
650634.33	4190656.46	2.60719	650684.33	4190656.46	3.08086
650734.33	4190656.46	3.58618	650784.33	4190656.46	3.89076
650834.33	4190656.46	3.99660	650884.33	4190656.46	4.29517
650934.33	4190656.46	4.99163	650984.33	4190656.46	5.78113
651034.33	4190656.46	6.32855	651084.33	4190656.46	6.53315
651134.33	4190656.46	6.51542	651184.33	4190656.46	6.35874
651234.33	4190656.46	6.07534	651284.33	4190656.46	5.70118
651334.33	4190656.46	5.28398	650334.33	4190706.46	1.80808
650384.33	4190706.46	1.89317	650434.33	4190706.46	1.97646
650484.33	4190706.46	2.06188	650534.33	4190706.46	2.16906
650584.33	4190706.46	2.33781	650634.33	4190706.46	2.63796
650684.33	4190706.46	3.15295	650734.33	4190706.46	3.85118
650784.33	4190706.46	4.40663	650834.33	4190706.46	4.63209
650884.33	4190706.46	5.11088	650934.33	4190706.46	6.21911
650984.33	4190706.46	7.37793	651034.33	4190706.46	8.04106
651084.33	4190706.46	8.19433	651134.33	4190706.46	8.03406

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	7.63882	651234.33	4190706.46	7.08972
651284.33	4190706.46	6.47624	651334.33	4190706.46	5.86185
650334.33	4190756.46	1.92647	650384.33	4190756.46	2.02102
650434.33	4190756.46	2.11458	650484.33	4190756.46	2.20739
650534.33	4190756.46	2.30245	650584.33	4190756.46	2.42982
650634.33	4190756.46	2.66458	650684.33	4190756.46	3.14599
650734.33	4190756.46	4.00920	650784.33	4190756.46	4.97553
650834.33	4190756.46	5.47492	650884.33	4190756.46	6.29597
650934.33	4190756.46	8.18905	650984.33	4190756.46	9.93351
651034.33	4190756.46	10.66492	651084.33	4190756.46	10.59387
651134.33	4190756.46	10.00247	651184.33	4190756.46	9.11932
651234.33	4190756.46	8.15112	651284.33	4190756.46	7.21641
651334.33	4190756.46	6.37005	650334.33	4190806.46	2.05899
650384.33	4190806.46	2.16199	650434.33	4190806.46	2.26542
650484.33	4190806.46	2.36739	650534.33	4190806.46	2.46840
650584.33	4190806.46	2.57891	650634.33	4190806.46	2.74120
650684.33	4190806.46	3.10281	650734.33	4190806.46	3.96610
650784.33	4190806.46	5.46487	650834.33	4190806.46	6.60059
650884.33	4190806.46	8.15431	650934.33	4190806.46	11.71716
650984.33	4190806.46	14.34192	651034.33	4190806.46	14.83144
651084.33	4190806.46	13.90576	651134.33	4190806.46	12.31418
651184.33	4190806.46	10.62310	651234.33	4190806.46	9.09851
651284.33	4190806.46	7.81184	651334.33	4190806.46	6.75162
650334.33	4190856.46	2.20210	650384.33	4190856.46	2.31748
650434.33	4190856.46	2.43311	650484.33	4190856.46	2.54560
650534.33	4190856.46	2.65887	650584.33	4190856.46	2.77888
650634.33	4190856.46	2.92222	650684.33	4190856.46	3.15144
650734.33	4190856.46	3.76752	650784.33	4190856.46	5.53978
650834.33	4190856.46	8.03552	650884.33	4190856.46	11.41988
650934.33	4190856.46	19.02655	650984.33	4190856.46	22.53247
651034.33	4190856.46	21.16041	651084.33	4190856.46	17.82808
651134.33	4190856.46	14.50358	651184.33	4190856.46	11.80956
651234.33	4190856.46	9.75373	651284.33	4190856.46	8.19112
651334.33	4190856.46	6.98163	650334.33	4190906.46	2.36939
650384.33	4190906.46	2.49787	650434.33	4190906.46	2.62452
650484.33	4190906.46	2.74771	650534.33	4190906.46	2.87216
650584.33	4190906.46	3.01017	650634.33	4190906.46	3.17899
650684.33	4190906.46	3.41025	650734.33	4190906.46	3.81013
650784.33	4190906.46	5.02201	650834.33	4190906.46	9.18831
650884.33	4190906.46	18.08470	650934.33	4190906.46	36.97379

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	37.22357	651034.33	4190906.46	28.53817
651084.33	4190906.46	20.97549	651134.33	4190906.46	15.83220
651184.33	4190906.46	12.39341	651234.33	4190906.46	10.01947
651284.33	4190906.46	8.31089	651334.33	4190906.46	7.02907
650334.33	4190956.46	2.60043	650384.33	4190956.46	2.76055
650434.33	4190956.46	2.91836	650484.33	4190956.46	3.06993
650534.33	4190956.46	3.21684	650584.33	4190956.46	3.36756
650634.33	4190956.46	3.53938	650684.33	4190956.46	3.78300
650734.33	4190956.46	4.26024	650784.33	4190956.46	5.36798
650834.33	4190956.46	8.10073	650884.33	4190956.46	30.73819
650934.33	4190956.46	80.97181	650984.33	4190956.46	51.93881
651034.33	4190956.46	31.98316	651084.33	4190956.46	21.63041
651134.33	4190956.46	15.79355	651184.33	4190956.46	12.18543
651234.33	4190956.46	9.78683	651284.33	4190956.46	8.09583
651334.33	4190956.46	6.84192	650334.33	4191006.46	2.85030
650384.33	4191006.46	3.06669	650434.33	4191006.46	3.29604
650484.33	4191006.46	3.53934	650534.33	4191006.46	3.80862
650584.33	4191006.46	4.11854	650634.33	4191006.46	4.49368
650684.33	4191006.46	4.99095	650734.33	4191006.46	5.80227
650784.33	4191006.46	7.45196	650834.33	4191006.46	7.43048
650884.33	4191006.46	0.37814	650934.33	4191006.46	77.79532
650984.33	4191006.46	43.69458	651034.33	4191006.46	27.06427
651084.33	4191006.46	18.75097	651134.33	4191006.46	13.99825
651184.33	4191006.46	10.99729	651234.33	4191006.46	8.96119
651284.33	4191006.46	7.49958	651334.33	4191006.46	6.39860
650334.33	4191056.46	2.99343	650384.33	4191056.46	3.24401
650434.33	4191056.46	3.51890	650484.33	4191056.46	3.82599
650534.33	4191056.46	4.18686	650584.33	4191056.46	4.63633
650634.33	4191056.46	5.24798	650684.33	4191056.46	6.21232
650734.33	4191056.46	8.13211	650784.33	4191056.46	13.20713
650834.33	4191056.46	25.06534	650884.33	4191056.46	8.65564
650934.33	4191056.46	10.90811	650984.33	4191056.46	15.37538
651034.33	4191056.46	14.69879	651084.33	4191056.46	12.53811
651134.33	4191056.46	10.49478	651184.33	4191056.46	8.84671
651234.33	4191056.46	7.55137	651284.33	4191056.46	6.52789
651334.33	4191056.46	5.70272	650334.33	4191106.46	2.99570
650384.33	4191106.46	3.25120	650434.33	4191106.46	3.53727
650484.33	4191106.46	3.86961	650534.33	4191106.46	4.28298
650584.33	4191106.46	4.84687	650634.33	4191106.46	5.70363
650684.33	4191106.46	7.15549	650734.33	4191106.46	9.80131

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	13.50630	650834.33	4191106.46	11.83634
650884.33	4191106.46	5.99359	650934.33	4191106.46	4.98218
650984.33	4191106.46	5.39636	651034.33	4191106.46	6.34322
651084.33	4191106.46	6.81256	651134.33	4191106.46	6.71746
651184.33	4191106.46	6.32106	651234.33	4191106.46	5.81433
651284.33	4191106.46	5.29656	651334.33	4191106.46	4.80607
650334.33	4191156.46	2.93979	650384.33	4191156.46	3.20128
650434.33	4191156.46	3.50343	650484.33	4191156.46	3.86774
650534.33	4191156.46	4.33694	650584.33	4191156.46	4.98486
650634.33	4191156.46	5.93139	650684.33	4191156.46	7.29423
650734.33	4191156.46	8.74851	650784.33	4191156.46	8.78173
650834.33	4191156.46	6.09643	650884.33	4191156.46	3.98314
650934.33	4191156.46	3.43624	650984.33	4191156.46	3.39106
651034.33	4191156.46	3.66503	651084.33	4191156.46	4.01881
651134.33	4191156.46	4.26778	651184.33	4191156.46	4.34991
651234.33	4191156.46	4.28306	651284.33	4191156.46	4.11484
651334.33	4191156.46	3.88994	650334.33	4191206.46	2.87644
650384.33	4191206.46	3.14129	650434.33	4191206.46	3.45163
650484.33	4191206.46	3.82609	650534.33	4191206.46	4.30053
650584.33	4191206.46	4.92578	650634.33	4191206.46	5.71390
650684.33	4191206.46	6.45478	650734.33	4191206.46	6.60098
650784.33	4191206.46	5.62529	650834.33	4191206.46	3.91489
650884.33	4191206.46	2.99302	650934.33	4191206.46	2.69863
650984.33	4191206.46	2.61263	651034.33	4191206.46	2.69292
651084.33	4191206.46	2.85079	651134.33	4191206.46	3.01595
651184.33	4191206.46	3.13969	651234.33	4191206.46	3.20029
651284.33	4191206.46	3.18975	651334.33	4191206.46	3.11679
650334.33	4191256.46	2.79807	650384.33	4191256.46	3.05443
650434.33	4191256.46	3.35621	650484.33	4191256.46	3.71757
650534.33	4191256.46	4.15680	650584.33	4191256.46	4.65978
650634.33	4191256.46	5.10544	650684.33	4191256.46	5.24666
650734.33	4191256.46	4.85475	650784.33	4191256.46	3.91199
650834.33	4191256.46	2.90658	650884.33	4191256.46	2.44303
650934.33	4191256.46	2.27806	650984.33	4191256.46	2.20162
651034.33	4191256.46	2.21632	651084.33	4191256.46	2.28075
651134.33	4191256.46	2.36756	651184.33	4191256.46	2.44873
651234.33	4191256.46	2.50599	651284.33	4191256.46	2.53124
651334.33	4191256.46	2.52096	650334.33	4191306.46	2.69911
650384.33	4191306.46	2.93994	650434.33	4191306.46	3.22426
650484.33	4191306.46	3.55562	650534.33	4191306.46	3.91050

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	4.21329	650634.33	4191306.46	4.33800
650684.33	4191306.46	4.17384	650734.33	4191306.46	3.68037
650784.33	4191306.46	2.96410	650834.33	4191306.46	2.36184
650884.33	4191306.46	2.10210	650934.33	4191306.46	2.00125
650984.33	4191306.46	1.94079	651034.33	4191306.46	1.92955
651084.33	4191306.46	1.95296	651134.33	4191306.46	1.99001
651184.33	4191306.46	2.03258	651234.33	4191306.46	2.06667
651284.33	4191306.46	2.08375	651334.33	4191306.46	2.08389
650334.33	4191356.46	2.58738	650384.33	4191356.46	2.81139
650434.33	4191356.46	3.06711	650484.33	4191356.46	3.33605
650534.33	4191356.46	3.56584	650584.33	4191356.46	3.68169
650634.33	4191356.46	3.62066	650684.33	4191356.46	3.35664
650734.33	4191356.46	2.91335	650784.33	4191356.46	2.40172
650834.33	4191356.46	2.02634	650884.33	4191356.46	1.86628
650934.33	4191356.46	1.79786	650984.33	4191356.46	1.75140
651034.33	4191356.46	1.73167	651084.33	4191356.46	1.73447
651134.33	4191356.46	1.74449	651184.33	4191356.46	1.75725
651234.33	4191356.46	1.77040	651284.33	4191356.46	1.77630
651334.33	4191356.46	1.77203	650334.33	4191406.46	2.47198
650384.33	4191406.46	2.67227	650434.33	4191406.46	2.87914
650484.33	4191406.46	3.05969	650534.33	4191406.46	3.16847
650584.33	4191406.46	3.16412	650634.33	4191406.46	3.02669
650684.33	4191406.46	2.75971	650734.33	4191406.46	2.40004
650784.33	4191406.46	2.03756	650834.33	4191406.46	1.79422
650884.33	4191406.46	1.68919	650934.33	4191406.46	1.63950
650984.33	4191406.46	1.60252	651034.33	4191406.46	1.57969
651084.33	4191406.46	1.56939	651134.33	4191406.46	1.56474
651184.33	4191406.46	1.55951	651234.33	4191406.46	1.55590
651284.33	4191406.46	1.55262	651334.33	4191406.46	1.54512
650334.33	4191456.46	2.35181	650384.33	4191456.46	2.51498
650434.33	4191456.46	2.65853	650484.33	4191456.46	2.75324
650534.33	4191456.46	2.77418	650584.33	4191456.46	2.70844
650634.33	4191456.46	2.55369	650684.33	4191456.46	2.31928
650734.33	4191456.46	2.03872	650784.33	4191456.46	1.78109
650834.33	4191456.46	1.61787	650884.33	4191456.46	1.54510
650934.33	4191456.46	1.50667	650984.33	4191456.46	1.47464
651034.33	4191456.46	1.45059	651084.33	4191456.46	1.43334
651134.33	4191456.46	1.42036	651184.33	4191456.46	1.40714
651234.33	4191456.46	1.39320	651284.33	4191456.46	1.38184
651334.33	4191456.46	1.37190	650334.33	4191506.46	2.21987

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	2.33654	650434.33	4191506.46	2.41857
650484.33	4191506.46	2.44904	650534.33	4191506.46	2.41921
650584.33	4191506.46	2.32806	650634.33	4191506.46	2.17883
650684.33	4191506.46	1.98239	650734.33	4191506.46	1.76703
650784.33	4191506.46	1.58274	650834.33	4191506.46	1.47025
650884.33	4191506.46	1.41731	650934.33	4191506.46	1.38631
650984.33	4191506.46	1.35778	651034.33	4191506.46	1.33383
651084.33	4191506.46	1.31485	651134.33	4191506.46	1.29846
651184.33	4191506.46	1.28242	651234.33	4191506.46	1.26486
651284.33	4191506.46	1.24814	651334.33	4191506.46	1.23468
650334.33	4191556.46	2.07347	650384.33	4191556.46	2.14461
650434.33	4191556.46	2.17844	650484.33	4191556.46	2.16873
650534.33	4191556.46	2.11481	650584.33	4191556.46	2.01852
650634.33	4191556.46	1.88355	650684.33	4191556.46	1.72050
650734.33	4191556.46	1.55374	650784.33	4191556.46	1.41989
650834.33	4191556.46	1.34036	650884.33	4191556.46	1.30100
650934.33	4191556.46	1.27569	650984.33	4191556.46	1.25082
651034.33	4191556.46	1.22852	651084.33	4191556.46	1.21041
651134.33	4191556.46	1.19364	651184.33	4191556.46	1.17707
651234.33	4191556.46	1.15951	651284.33	4191556.46	1.14092
651334.33	4191556.46	1.12411	650934.45	4191196.80	2.80750
650934.45	4191240.55	2.39051	651071.58	4191520.04	1.28974
650517.18	4191503.06	2.45828	650941.63	4190991.11	85.94264
650974.28	4190903.61	37.26442	650989.95	4190868.34	25.31112
651153.79	4190886.56	14.06498	651170.44	4190902.10	13.18846
651162.67	4190888.23	13.51960	651241.49	4191031.43	8.12078
650569.32	4190797.20	2.51074	650392.81	4190782.21	2.10820

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.94149	650384.33	4190556.46	2.06718
650434.33	4190556.46	2.21475	650484.33	4190556.46	2.38955
650534.33	4190556.46	2.59848	650584.33	4190556.46	2.85221
650634.33	4190556.46	3.15894	650684.33	4190556.46	3.51395
650734.33	4190556.46	3.89047	650784.33	4190556.46	4.22601
650834.33	4190556.46	4.43470	650884.33	4190556.46	4.48739
650934.33	4190556.46	4.45604	650984.33	4190556.46	4.50855
651034.33	4190556.46	4.70346	651084.33	4190556.46	4.90362
651134.33	4190556.46	5.01950	651184.33	4190556.46	5.01802

651234.33	4190556.46	4.87365	651284.33	4190556.46	4.65316
651334.33	4190556.46	4.45145	650334.33	4190606.46	2.12234
650384.33	4190606.46	2.26383	650434.33	4190606.46	2.42516
650484.33	4190606.46	2.61684	650534.33	4190606.46	2.84798
650584.33	4190606.46	3.13032	650634.33	4190606.46	3.48023
650684.33	4190606.46	3.90480	650734.33	4190606.46	4.38310
650784.33	4190606.46	4.84932	650834.33	4190606.46	5.17989
650884.33	4190606.46	5.29339	650934.33	4190606.46	5.27023
650984.33	4190606.46	5.34731	651034.33	4190606.46	5.60633
651084.33	4190606.46	5.85016	651134.33	4190606.46	5.96112
651184.33	4190606.46	5.88323	651234.33	4190606.46	5.63754
651284.33	4190606.46	5.36377	651334.33	4190606.46	5.13668
650334.33	4190656.46	2.32319	650384.33	4190656.46	2.49497
650434.33	4190656.46	2.68124	650484.33	4190656.46	2.89403
650534.33	4190656.46	3.15023	650584.33	4190656.46	3.46609
650634.33	4190656.46	3.86231	650684.33	4190656.46	4.36336
650734.33	4190656.46	4.96581	650784.33	4190656.46	5.60603
650834.33	4190656.46	6.12531	650884.33	4190656.46	6.35016
650934.33	4190656.46	6.34840	650984.33	4190656.46	6.46518
651034.33	4190656.46	6.81843	651084.33	4190656.46	7.11457
651134.33	4190656.46	7.18486	651184.33	4190656.46	6.97056
651234.33	4190656.46	6.61237	651284.33	4190656.46	6.28923
651334.33	4190656.46	5.99737	650334.33	4190706.46	2.53318
650384.33	4190706.46	2.74977	650434.33	4190706.46	2.98303
650484.33	4190706.46	3.23667	650534.33	4190706.46	3.52695
650584.33	4190706.46	3.88190	650634.33	4190706.46	4.33180
650684.33	4190706.46	4.91482	650734.33	4190706.46	5.66335
650784.33	4190706.46	6.53380	650834.33	4190706.46	7.34151
650884.33	4190706.46	7.77332	650934.33	4190706.46	7.82268
650984.33	4190706.46	8.00682	651034.33	4190706.46	8.50340
651084.33	4190706.46	8.85135	651134.33	4190706.46	8.79879

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	8.38148	651234.33	4190706.46	7.91267
651284.33	4190706.46	7.49475	651334.33	4190706.46	7.04418
650334.33	4190756.46	2.74691	650384.33	4190756.46	3.01403
650434.33	4190756.46	3.31244	650484.33	4190756.46	3.64065
650534.33	4190756.46	4.00083	650584.33	4190756.46	4.41425
650634.33	4190756.46	4.92902	650684.33	4190756.46	5.60536
650734.33	4190756.46	6.51623	650784.33	4190756.46	7.68563
650834.33	4190756.46	8.92913	650884.33	4190756.46	9.75081
650934.33	4190756.46	9.92125	650984.33	4190756.46	10.22709

651034.33	4190756.46	10.94917	651084.33	4190756.46	11.30872
651134.33	4190756.46	10.97866	651184.33	4190756.46	10.31045
651234.33	4190756.46	9.68080	651284.33	4190756.46	9.01590
651334.33	4190756.46	8.26796	650334.33	4190806.46	2.97348
650384.33	4190806.46	3.28752	650434.33	4190806.46	3.65372
650484.33	4190806.46	4.07703	650534.33	4190806.46	4.55813
650584.33	4190806.46	5.09709	650634.33	4190806.46	5.72008
650684.33	4190806.46	6.51316	650734.33	4190806.46	7.60634
650784.33	4190806.46	9.14093	650834.33	4190806.46	11.03670
650884.33	4190806.46	12.60011	650934.33	4190806.46	13.06743
650984.33	4190806.46	13.61213	651034.33	4190806.46	14.69668
651084.33	4190806.46	14.90000	651134.33	4190806.46	14.06872
651184.33	4190806.46	13.06851	651234.33	4190806.46	12.02297
651284.33	4190806.46	10.84123	651334.33	4190806.46	9.62647
650334.33	4190856.46	3.23180	650384.33	4190856.46	3.59218
650434.33	4190856.46	4.02114	650484.33	4190856.46	4.53651
650534.33	4190856.46	5.15689	650584.33	4190856.46	5.89572
650634.33	4190856.46	6.75676	650684.33	4190856.46	7.77018
650734.33	4190856.46	9.09840	650784.33	4190856.46	11.05450
650834.33	4190856.46	13.89003	650884.33	4190856.46	16.87863
650934.33	4190856.46	18.12195	650984.33	4190856.46	19.19057
651034.33	4190856.46	20.83814	651084.33	4190856.46	20.39390
651134.33	4190856.46	18.76404	651184.33	4190856.46	16.97253
651234.33	4190856.46	14.93145	651284.33	4190856.46	12.86708
651334.33	4190856.46	10.98379	650334.33	4190906.46	3.51462
650384.33	4190906.46	3.93767	650434.33	4190906.46	4.44383
650484.33	4190906.46	5.05790	650534.33	4190906.46	5.81546
650584.33	4190906.46	6.76518	650634.33	4190906.46	7.96415
650684.33	4190906.46	9.45716	650734.33	4190906.46	11.29282
650784.33	4190906.46	13.80677	650834.33	4190906.46	17.87340
650884.33	4190906.46	23.60427	650934.33	4190906.46	27.06699

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	29.48001	651034.33	4190906.46	31.77899
651084.33	4190906.46	29.52161	651134.33	4190906.46	26.06736
651184.33	4190906.46	22.05180	651234.33	4190906.46	18.12696
651284.33	4190906.46	14.78870	651334.33	4190906.46	12.14040
650334.33	4190956.46	3.79729	650384.33	4190956.46	4.29172
650434.33	4190956.46	4.89498	650484.33	4190956.46	5.64082
650534.33	4190956.46	6.57697	650584.33	4190956.46	7.77376
650634.33	4190956.46	9.33980	650684.33	4190956.46	11.44529
650734.33	4190956.46	14.32530	650784.33	4190956.46	18.21824

650834.33	4190956.46	24.00308	650884.33	4190956.46	34.67066
650934.33	4190956.46	45.32745	650984.33	4190956.46	52.09583
651034.33	4190956.46	53.63549	651084.33	4190956.46	45.93207
651134.33	4190956.46	36.21663	651184.33	4190956.46	27.44920
651234.33	4190956.46	20.90130	651284.33	4190956.46	16.27753
651334.33	4190956.46	12.99511	650334.33	4191006.46	4.08942
650384.33	4191006.46	4.65370	650434.33	4191006.46	5.35312
650484.33	4191006.46	6.23608	650534.33	4191006.46	7.37489
650584.33	4191006.46	8.88075	650634.33	4191006.46	10.93105
650684.33	4191006.46	13.82034	650734.33	4191006.46	18.06432
650784.33	4191006.46	24.62609	650834.33	4191006.46	35.22329
650884.33	4191006.46	54.26465	650934.33	4191006.46	91.83446
650984.33	4191006.46	119.14763	651034.33	4191006.46	105.14455
651084.33	4191006.46	71.03719	651134.33	4191006.46	46.04198
651184.33	4191006.46	31.41274	651234.33	4191006.46	22.68052
651284.33	4191006.46	17.14497	651334.33	4191006.46	13.43666
650334.33	4191056.46	4.36896	650384.33	4191056.46	5.00574
650434.33	4191056.46	5.80494	650484.33	4191056.46	6.82931
650534.33	4191056.46	8.17580	650584.33	4191056.46	10.00100
650634.33	4191056.46	12.57215	650684.33	4191056.46	16.37665
650734.33	4191056.46	22.38302	650784.33	4191056.46	32.74180
650834.33	4191056.46	52.95709	650884.33	4191056.46	99.37695
650934.33	4191056.46	236.33177	650984.33	4191056.46	455.21846
651034.33	4191056.46	193.28036	651084.33	4191056.46	88.46411
651134.33	4191056.46	50.16535	651184.33	4191056.46	32.46015
651234.33	4191056.46	22.86047	651284.33	4191056.46	17.06319
651334.33	4191056.46	13.28342	650334.33	4191106.46	4.55290
650384.33	4191106.46	5.23481	650434.33	4191106.46	6.09636
650484.33	4191106.46	7.20962	650534.33	4191106.46	8.68778
650584.33	4191106.46	10.71744	650634.33	4191106.46	13.62578
650684.33	4191106.46	18.03138	650734.33	4191106.46	25.22875

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	38.33263	650834.33	4191106.46	66.52212
650884.33	4191106.46	146.41262	650934.33	4191106.46	423.48961
650984.33	4191106.46	337.21933	651034.33	4191106.46	155.42410
651084.33	4191106.46	75.38044	651134.33	4191106.46	44.35854
651184.33	4191106.46	29.41669	651234.33	4191106.46	21.07574
651284.33	4191106.46	15.92914	651334.33	4191106.46	12.51835
650334.33	4191156.46	4.56502	650384.33	4191156.46	5.23472
650434.33	4191156.46	6.07552	650484.33	4191156.46	7.15352
650534.33	4191156.46	8.57074	650584.33	4191156.46	10.49176

650634.33	4191156.46	13.19648	650684.33	4191156.46	17.19016
650734.33	4191156.46	23.44911	650784.33	4191156.46	33.99461
650834.33	4191156.46	53.41166	650884.33	4191156.46	92.78578
650934.33	4191156.46	107.64986	650984.33	4191156.46	78.58283
651034.33	4191156.46	56.10103	651084.33	4191156.46	41.18781
651134.33	4191156.46	30.21641	651184.33	4191156.46	22.53348
651234.33	4191156.46	17.29291	651284.33	4191156.46	13.65787
651334.33	4191156.46	11.06119	650334.33	4191206.46	4.41417
650384.33	4191206.46	5.03541	650434.33	4191206.46	5.80957
650484.33	4191206.46	6.79260	650534.33	4191206.46	8.06740
650584.33	4191206.46	9.75914	650634.33	4191206.46	12.05918
650684.33	4191206.46	15.26195	650734.33	4191206.46	19.84811
650784.33	4191206.46	26.80477	650834.33	4191206.46	37.49725
650884.33	4191206.46	45.94722	650934.33	4191206.46	40.31944
650984.33	4191206.46	34.53712	651034.33	4191206.46	28.20101
651084.33	4191206.46	22.66696	651134.33	4191206.46	18.65639
651184.33	4191206.46	15.54780	651234.33	4191206.46	12.96788
651284.33	4191206.46	10.85595	651334.33	4191206.46	9.16474
650334.33	4191256.46	4.21768	650384.33	4191256.46	4.79117
650434.33	4191256.46	5.49532	650484.33	4191256.46	6.36948
650534.33	4191256.46	7.46635	650584.33	4191256.46	8.85664
650634.33	4191256.46	10.64149	650684.33	4191256.46	13.00294
650734.33	4191256.46	16.29765	650784.33	4191256.46	20.69485
650834.33	4191256.46	24.47853	650884.33	4191256.46	24.47344
650934.33	4191256.46	21.44039	650984.33	4191256.46	19.50860
651034.33	4191256.46	17.10306	651084.33	4191256.46	14.67012
651134.33	4191256.46	12.51986	651184.33	4191256.46	10.83734
651234.33	4191256.46	9.50342	651284.33	4191256.46	8.36972
651334.33	4191256.46	7.36920	650334.33	4191306.46	4.01726
650384.33	4191306.46	4.52774	650434.33	4191306.46	5.13759
650484.33	4191306.46	5.87037	650534.33	4191306.46	6.75710

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	7.84793	650634.33	4191306.46	9.24069
650684.33	4191306.46	11.07984	650734.33	4191306.46	13.32763
650784.33	4191306.46	15.30180	650834.33	4191306.46	15.96190
650884.33	4191306.46	14.99165	650934.33	4191306.46	13.51324
650984.33	4191306.46	12.65460	651034.33	4191306.46	11.54646
651084.33	4191306.46	10.32481	651134.33	4191306.46	9.12337
651184.33	4191306.46	8.06476	651234.33	4191306.46	7.18810
651284.33	4191306.46	6.47015	651334.33	4191306.46	5.86324
650334.33	4191356.46	3.78327	650384.33	4191356.46	4.21954

650434.33	4191356.46	4.72858	650484.33	4191356.46	5.32795
650534.33	4191356.46	6.05011	650584.33	4191356.46	6.95255
650634.33	4191356.46	8.09199	650684.33	4191356.46	9.40432
650734.33	4191356.46	10.56620	650784.33	4191356.46	11.14970
650834.33	4191356.46	10.97971	650884.33	4191356.46	10.16701
650934.33	4191356.46	9.40173	650984.33	4191356.46	8.94835
651034.33	4191356.46	8.36396	651084.33	4191356.46	7.67259
651134.33	4191356.46	6.97432	651184.33	4191356.46	6.29170
651234.33	4191356.46	5.69080	651284.33	4191356.46	5.17166
651334.33	4191356.46	4.73131	650334.33	4191406.46	3.52450
650384.33	4191406.46	3.89234	650434.33	4191406.46	4.31899
650484.33	4191406.46	4.82761	650534.33	4191406.46	5.45169
650584.33	4191406.46	6.21021	650634.33	4191406.46	7.04805
650684.33	4191406.46	7.79340	650734.33	4191406.46	8.23951
650784.33	4191406.46	8.29794	650834.33	4191406.46	7.97675
650884.33	4191406.46	7.39927	650934.33	4191406.46	6.97601
650984.33	4191406.46	6.70792	651034.33	4191406.46	6.36359
651084.33	4191406.46	5.94485	651134.33	4191406.46	5.50798
651184.33	4191406.46	5.06354	651234.33	4191406.46	4.63994
651284.33	4191406.46	4.26499	651334.33	4191406.46	3.93023
650334.33	4191456.46	3.26490	650384.33	4191456.46	3.58200
650434.33	4191456.46	3.95738	650484.33	4191456.46	4.40972
650534.33	4191456.46	4.94204	650584.33	4191456.46	5.51241
650634.33	4191456.46	6.02168	650684.33	4191456.46	6.35803
650734.33	4191456.46	6.47172	650784.33	4191456.46	6.36956
650834.33	4191456.46	6.05888	650884.33	4191456.46	5.66399
650934.33	4191456.46	5.41540	650984.33	4191456.46	5.24363
651034.33	4191456.46	5.02265	651084.33	4191456.46	4.75517
651134.33	4191456.46	4.46469	651184.33	4191456.46	4.16792
651234.33	4191456.46	3.86630	651284.33	4191456.46	3.58615
651334.33	4191456.46	3.33583	650334.33	4191506.46	3.02730

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.31431	650434.33	4191506.46	3.65401
650484.33	4191506.46	4.04303	650534.33	4191506.46	4.45053
650584.33	4191506.46	4.81558	650634.33	4191506.46	5.07245
650684.33	4191506.46	5.19025	650734.33	4191506.46	5.17585
650784.33	4191506.46	5.03204	650834.33	4191506.46	4.76830
650884.33	4191506.46	4.50085	650934.33	4191506.46	4.34681
650984.33	4191506.46	4.23000	651034.33	4191506.46	4.07903
651084.33	4191506.46	3.89845	651134.33	4191506.46	3.69910
651184.33	4191506.46	3.49089	651234.33	4191506.46	3.27726

651284.33	4191506.46	3.06371	651334.33	4191506.46	2.86920
650334.33	4191556.46	2.82438	650384.33	4191556.46	3.08665
650434.33	4191556.46	3.38023	650484.33	4191556.46	3.68254
650534.33	4191556.46	3.95422	650584.33	4191556.46	4.15409
650634.33	4191556.46	4.26155	650684.33	4191556.46	4.28160
650734.33	4191556.46	4.22114	650784.33	4191556.46	4.07388
650834.33	4191556.46	3.86155	650884.33	4191556.46	3.68010
650934.33	4191556.46	3.57994	650984.33	4191556.46	3.49674
651034.33	4191556.46	3.38879	651084.33	4191556.46	3.26035
651134.33	4191556.46	3.11991	651184.33	4191556.46	2.96883
651234.33	4191556.46	2.81360	651284.33	4191556.46	2.65369
651334.33	4191556.46	2.49763	650934.45	4191196.80	46.97046
650934.45	4191240.55	25.59128	651071.58	4191520.04	3.75051
650517.18	4191503.06	4.34194	650941.63	4190991.11	74.06623
650974.28	4190903.61	27.96679	650989.95	4190868.34	21.31164
651153.79	4190886.56	21.72408	651170.44	4190902.10	22.64064
651162.67	4190888.23	21.42149	651241.49	4191031.43	22.01581
650569.32	4190797.20	4.80033	650392.81	4190782.21	3.20640

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.94002	650384.33	4190556.46	2.06569
650434.33	4190556.46	2.21326	650484.33	4190556.46	2.38803
650534.33	4190556.46	2.59695	650584.33	4190556.46	2.85065
650634.33	4190556.46	3.15717	650684.33	4190556.46	3.51157
650734.33	4190556.46	3.88684	650784.33	4190556.46	4.22032
650834.33	4190556.46	4.42668	650884.33	4190556.46	4.47787
650934.33	4190556.46	4.44642	650984.33	4190556.46	4.49969
651034.33	4190556.46	4.69446	651084.33	4190556.46	4.89370
651134.33	4190556.46	5.00889	651184.33	4190556.46	5.00720
651234.33	4190556.46	4.86319	651284.33	4190556.46	4.64335
651334.33	4190556.46	4.44219	650334.33	4190606.46	2.12065
650384.33	4190606.46	2.26195	650434.33	4190606.46	2.42322
650484.33	4190606.46	2.61489	650534.33	4190606.46	2.84601
650584.33	4190606.46	3.12833	650634.33	4190606.46	3.47814
650684.33	4190606.46	3.90219	650734.33	4190606.46	4.37919
650784.33	4190606.46	4.84295	650834.33	4190606.46	5.17020
650884.33	4190606.46	5.28127	650934.33	4190606.46	5.25772
650984.33	4190606.46	5.33574	651034.33	4190606.46	5.59438
651084.33	4190606.46	5.83690	651134.33	4190606.46	5.94704
651184.33	4190606.46	5.86918	651234.33	4190606.46	5.62428
651284.33	4190606.46	5.35137	651334.33	4190606.46	5.12503
650334.33	4190656.46	2.32152	650384.33	4190656.46	2.49286

650434.33	4190656.46	2.67879	650484.33	4190656.46	2.89144
650534.33	4190656.46	3.14763	650584.33	4190656.46	3.46346
650634.33	4190656.46	3.85964	650684.33	4190656.46	4.36036
650734.33	4190656.46	4.96154	650784.33	4190656.46	5.59892
650834.33	4190656.46	6.11361	650884.33	4190656.46	6.33440
650934.33	4190656.46	6.33170	650984.33	4190656.46	6.44962
651034.33	4190656.46	6.80202	651084.33	4190656.46	7.09629
651134.33	4190656.46	7.16574	651184.33	4190656.46	6.95207
651234.33	4190656.46	6.59518	651284.33	4190656.46	6.27320
651334.33	4190656.46	5.98268	650334.33	4190706.46	2.53172
650384.33	4190706.46	2.74775	650434.33	4190706.46	2.98035
650484.33	4190706.46	3.23341	650534.33	4190706.46	3.52340
650584.33	4190706.46	3.87830	650634.33	4190706.46	4.32815
650684.33	4190706.46	4.91104	650734.33	4190706.46	5.65857
650784.33	4190706.46	6.52589	650834.33	4190706.46	7.32743
650884.33	4190706.46	7.75240	650934.33	4190706.46	7.79960
650984.33	4190706.46	7.98511	651034.33	4190706.46	8.47991
651084.33	4190706.46	8.82520	651134.33	4190706.46	8.77219

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	8.35656	651234.33	4190706.46	7.88968
651284.33	4190706.46	7.47382	651334.33	4190706.46	7.02583
650334.33	4190756.46	2.74567	650384.33	4190756.46	3.01232
650434.33	4190756.46	3.31001	650484.33	4190756.46	3.63722
650534.33	4190756.46	3.99636	650584.33	4190756.46	4.40916
650634.33	4190756.46	4.92380	650684.33	4190756.46	5.60007
650734.33	4190756.46	6.51044	650784.33	4190756.46	7.67676
650834.33	4190756.46	8.91231	650884.33	4190756.46	9.72243
650934.33	4190756.46	9.88792	650984.33	4190756.46	10.19530
651034.33	4190756.46	10.91376	651084.33	4190756.46	11.26969
651134.33	4190756.46	10.94065	651184.33	4190756.46	10.27567
651234.33	4190756.46	9.64943	651284.33	4190756.46	8.98882
651334.33	4190756.46	8.24549	650334.33	4190806.46	2.97219
650384.33	4190806.46	3.28596	650434.33	4190806.46	3.65165
650484.33	4190806.46	4.07406	650534.33	4190806.46	4.55369
650584.33	4190806.46	5.09079	650634.33	4190806.46	5.71243
650684.33	4190806.46	6.50515	650734.33	4190806.46	7.59815
650784.33	4190806.46	9.13060	650834.33	4190806.46	11.01675
650884.33	4190806.46	12.56085	650934.33	4190806.46	13.01656
650984.33	4190806.46	13.56251	651034.33	4190806.46	14.63950
651084.33	4190806.46	14.83895	651134.33	4190806.46	14.01218
651184.33	4190806.46	13.01818	651234.33	4190806.46	11.98039

651284.33	4190806.46	10.80712	651334.33	4190806.46	9.60006
650334.33	4190856.46	3.23030	650384.33	4190856.46	3.59038
650434.33	4190856.46	4.01898	650484.33	4190856.46	4.53380
650534.33	4190856.46	5.15310	650584.33	4190856.46	5.88986
650634.33	4190856.46	6.74758	650684.33	4190856.46	7.75786
650734.33	4190856.46	9.08508	650784.33	4190856.46	11.04040
650834.33	4190856.46	13.86647	650884.33	4190856.46	16.82362
650934.33	4190856.46	18.03827	650984.33	4190856.46	19.10583
651034.33	4190856.46	20.73718	651084.33	4190856.46	20.29296
651134.33	4190856.46	18.67521	651184.33	4190856.46	16.89943
651234.33	4190856.46	14.87583	651284.33	4190856.46	12.82673
651334.33	4190856.46	10.95510	650334.33	4190906.46	3.51337
650384.33	4190906.46	3.93596	650434.33	4190906.46	4.44153
650484.33	4190906.46	5.05487	650534.33	4190906.46	5.81152
650584.33	4190906.46	6.75985	650634.33	4190906.46	7.95603
650684.33	4190906.46	9.44321	650734.33	4190906.46	11.27111
650784.33	4190906.46	13.78188	650834.33	4190906.46	17.84343
650884.33	4190906.46	23.52753	650934.33	4190906.46	26.91420

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	29.31426	651034.33	4190906.46	31.57921
651084.33	4190906.46	29.34105	651134.33	4190906.46	25.92441
651184.33	4190906.46	21.95160	651234.33	4190906.46	18.06120
651284.33	4190906.46	14.74585	651334.33	4190906.46	12.11159
650334.33	4190956.46	3.79644	650384.33	4190956.46	4.29058
650434.33	4190956.46	4.89336	650484.33	4190956.46	5.63841
650534.33	4190956.46	6.57331	650584.33	4190956.46	7.76824
650634.33	4190956.46	9.33155	650684.33	4190956.46	11.43257
650734.33	4190956.46	14.30252	650784.33	4190956.46	18.17460
650834.33	4190956.46	23.94696	650884.33	4190956.46	34.56802
650934.33	4190956.46	45.00323	650984.33	4190956.46	51.69006
651034.33	4190956.46	53.17809	651084.33	4190956.46	45.58675
651134.33	4190956.46	36.00763	651184.33	4190956.46	27.33277
651234.33	4190956.46	20.83401	651284.33	4190956.46	16.23587
651334.33	4190956.46	12.96781	650334.33	4191006.46	4.08881
650384.33	4191006.46	4.65288	650434.33	4191006.46	5.35201
650484.33	4191006.46	6.23454	650534.33	4191006.46	7.37263
650584.33	4191006.46	8.87723	650634.33	4191006.46	10.92507
650684.33	4191006.46	13.80932	650734.33	4191006.46	18.04291
650784.33	4191006.46	24.58216	650834.33	4191006.46	35.11495
650884.33	4191006.46	54.08630	650934.33	4191006.46	90.99543
650984.33	4191006.46	117.64929	651034.33	4191006.46	103.90167

651084.33	4191006.46	70.48890	651134.33	4191006.46	45.81335
651184.33	4191006.46	31.30267	651234.33	4191006.46	22.62086
651284.33	4191006.46	17.10970	651334.33	4191006.46	13.41431
650334.33	4191056.46	4.36942	650384.33	4191056.46	5.00623
650434.33	4191056.46	5.80545	650484.33	4191056.46	6.82979
650534.33	4191056.46	8.17617	650584.33	4191056.46	10.00106
650634.33	4191056.46	12.57147	650684.33	4191056.46	16.37414
650734.33	4191056.46	22.37570	650784.33	4191056.46	32.71976
650834.33	4191056.46	52.87709	650884.33	4191056.46	98.98504
650934.33	4191056.46	235.28833	650984.33	4191056.46	444.28079
651034.33	4191056.46	191.29625	651084.33	4191056.46	88.01298
651134.33	4191056.46	50.00880	651184.33	4191056.46	32.38992
651234.33	4191056.46	22.82327	651284.33	4191056.46	17.04113
651334.33	4191056.46	13.26925	650334.33	4191106.46	4.55548
650384.33	4191106.46	5.23814	650434.33	4191106.46	6.10077
650484.33	4191106.46	7.21561	650534.33	4191106.46	8.69618
650584.33	4191106.46	10.72971	650634.33	4191106.46	13.64465
650684.33	4191106.46	18.06250	650734.33	4191106.46	25.28532

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	38.45140	650834.33	4191106.46	66.83699
650884.33	4191106.46	147.65828	650934.33	4191106.46	424.33010
650984.33	4191106.46	348.21084	651034.33	4191106.46	156.31297
651084.33	4191106.46	75.48655	651134.33	4191106.46	44.37313
651184.33	4191106.46	29.41520	651234.33	4191106.46	21.07132
651284.33	4191106.46	15.92467	651334.33	4191106.46	12.51444
650334.33	4191156.46	4.57011	650384.33	4191156.46	5.24129
650434.33	4191156.46	6.08419	650484.33	4191156.46	7.16519
650534.33	4191156.46	8.58687	650584.33	4191156.46	10.51480
650634.33	4191156.46	13.23081	650684.33	4191156.46	17.24446
650734.33	4191156.46	23.54276	650784.33	4191156.46	34.17800
650834.33	4191156.46	53.82494	650884.33	4191156.46	93.90888
650934.33	4191156.46	109.25076	650984.33	4191156.46	79.49139
651034.33	4191156.46	56.63376	651084.33	4191156.46	41.48086
651134.33	4191156.46	30.34825	651184.33	4191156.46	22.59460
651234.33	4191156.46	17.32361	651284.33	4191156.46	13.67435
651334.33	4191156.46	11.07045	650334.33	4191206.46	4.42047
650384.33	4191206.46	5.04324	650434.33	4191206.46	5.81946
650484.33	4191206.46	6.80540	650534.33	4191206.46	8.08450
650584.33	4191206.46	9.78300	650634.33	4191206.46	12.09429
650684.33	4191206.46	15.31667	650734.33	4191206.46	19.93701
650784.33	4191206.46	26.95285	650834.33	4191206.46	37.77397

650884.33	4191206.46	46.39394	650934.33	4191206.46	40.67840
650984.33	4191206.46	34.80826	651034.33	4191206.46	28.37735
651084.33	4191206.46	22.78856	651134.33	4191206.46	18.74762
651184.33	4191206.46	15.60910	651234.33	4191206.46	13.00611
651284.33	4191206.46	10.87993	651334.33	4191206.46	9.18037
650334.33	4191256.46	4.22372	650384.33	4191256.46	4.79867
650434.33	4191256.46	5.50489	650484.33	4191256.46	6.38206
650534.33	4191256.46	7.48339	650584.33	4191256.46	8.88033
650634.33	4191256.46	10.67494	650684.33	4191256.46	13.05018
650734.33	4191256.46	16.36598	650784.33	4191256.46	20.80325
650834.33	4191256.46	24.64002	650884.33	4191256.46	24.64160
650934.33	4191256.46	21.57651	650984.33	4191256.46	19.62390
651034.33	4191256.46	17.18781	651084.33	4191256.46	14.73055
651134.33	4191256.46	12.56621	651184.33	4191256.46	10.87551
651234.33	4191256.46	9.53409	651284.33	4191256.46	8.39253
651334.33	4191256.46	7.38537	650334.33	4191306.46	4.02324
650384.33	4191306.46	4.53528	650434.33	4191306.46	5.14724
650484.33	4191306.46	5.88288	650534.33	4191306.46	6.77344

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	7.86922	650634.33	4191306.46	9.26834
650684.33	4191306.46	11.11707	650734.33	4191306.46	13.38151
650784.33	4191306.46	15.37692	650834.33	4191306.46	16.04748
650884.33	4191306.46	15.06865	650934.33	4191306.46	13.57994
650984.33	4191306.46	12.71398	651034.33	4191306.46	11.59324
651084.33	4191306.46	10.36146	651134.33	4191306.46	9.15126
651184.33	4191306.46	8.08746	651234.33	4191306.46	7.20745
651284.33	4191306.46	6.48702	651334.33	4191306.46	5.87731
650334.33	4191356.46	3.78931	650384.33	4191356.46	4.22700
650434.33	4191356.46	4.73785	650484.33	4191356.46	5.33946
650534.33	4191356.46	6.06430	650584.33	4191356.46	6.97011
650634.33	4191356.46	8.11464	650684.33	4191356.46	9.43520
650734.33	4191356.46	10.60724	650784.33	4191356.46	11.19757
650834.33	4191356.46	11.02723	650884.33	4191356.46	10.20852
650934.33	4191356.46	9.43968	650984.33	4191356.46	8.98297
651034.33	4191356.46	8.39282	651084.33	4191356.46	7.69633
651134.33	4191356.46	6.99320	651184.33	4191356.46	6.30701
651234.33	4191356.46	5.70371	651284.33	4191356.46	5.18283
651334.33	4191356.46	4.74139	650334.33	4191406.46	3.53031
650384.33	4191406.46	3.89932	650434.33	4191406.46	4.32732
650484.33	4191406.46	4.83751	650534.33	4191406.46	5.46357
650584.33	4191406.46	6.22509	650634.33	4191406.46	7.06751

650684.33	4191406.46	7.81837	650734.33	4191406.46	8.26872
650784.33	4191406.46	8.32836	650834.33	4191406.46	8.00522
650884.33	4191406.46	7.42443	650934.33	4191406.46	6.99981
650984.33	4191406.46	6.72994	651034.33	4191406.46	6.38273
651084.33	4191406.46	5.96100	651134.33	4191406.46	5.52155
651184.33	4191406.46	5.07456	651234.33	4191406.46	4.64933
651284.33	4191406.46	4.27309	651334.33	4191406.46	3.93729
650334.33	4191456.46	3.27024	650384.33	4191456.46	3.58820
650434.33	4191456.46	3.96454	650484.33	4191456.46	4.41816
650534.33	4191456.46	4.95239	650584.33	4191456.46	5.52553
650634.33	4191456.46	6.03806	650684.33	4191456.46	6.37712
650734.33	4191456.46	6.49207	650784.33	4191456.46	6.38957
650834.33	4191456.46	6.07717	650884.33	4191456.46	5.68056
650934.33	4191456.46	5.43138	650984.33	4191456.46	5.25856
651034.33	4191456.46	5.03597	651084.33	4191456.46	4.76674
651134.33	4191456.46	4.47466	651184.33	4191456.46	4.17633
651234.33	4191456.46	3.87334	651284.33	4191456.46	3.59238
651334.33	4191456.46	3.34128	650334.33	4191506.46	3.03202

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.31968	650434.33	4191506.46	3.66024
650484.33	4191506.46	4.05055	650534.33	4191506.46	4.45983
650584.33	4191506.46	4.82695	650634.33	4191506.46	5.08562
650684.33	4191506.46	5.20446	650734.33	4191506.46	5.19021
650784.33	4191506.46	5.04575	650834.33	4191506.46	4.78075
650884.33	4191506.46	4.51245	650934.33	4191506.46	4.35811
650984.33	4191506.46	4.24063	651034.33	4191506.46	4.08868
651084.33	4191506.46	3.90706	651134.33	4191506.46	3.70663
651184.33	4191506.46	3.49745	651234.33	4191506.46	3.28281
651284.33	4191506.46	3.06853	651334.33	4191506.46	2.87358
650334.33	4191556.46	2.82851	650384.33	4191556.46	3.09140
650434.33	4191556.46	3.38588	650484.33	4191556.46	3.68940
650534.33	4191556.46	3.96245	650584.33	4191556.46	4.16357
650634.33	4191556.46	4.27184	650684.33	4191556.46	4.29217
650734.33	4191556.46	4.23152	650784.33	4191556.46	4.08362
650834.33	4191556.46	3.87044	650884.33	4191556.46	3.68859
650934.33	4191556.46	3.58825	650984.33	4191556.46	3.50459
651034.33	4191556.46	3.39601	651084.33	4191556.46	3.26692
651134.33	4191556.46	3.12577	651184.33	4191556.46	2.97400
651234.33	4191556.46	2.81812	651284.33	4191556.46	2.65755
651334.33	4191556.46	2.50110	650934.45	4191196.80	47.42386
650934.45	4191240.55	25.77004	651071.58	4191520.04	3.75874

650517.18	4191503.06	4.35063	650941.63	4190991.11	73.38167
650974.28	4190903.61	27.81317	650989.95	4190868.34	21.21197
651153.79	4190886.56	21.61648	651170.44	4190902.10	22.53202
651162.67	4190888.23	21.31781	651241.49	4191031.43	21.96981
650569.32	4190797.20	4.79462	650392.81	4190782.21	3.20474

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.43454	650384.33	4190556.46	2.63552
650434.33	4190556.46	2.87824	650484.33	4190556.46	3.17540
650534.33	4190556.46	3.53763	650584.33	4190556.46	3.95684
650634.33	4190556.46	4.39502	650684.33	4190556.46	4.76933
650734.33	4190556.46	4.97796	650784.33	4190556.46	5.01123
650834.33	4190556.46	5.00827	650884.33	4190556.46	5.15279
650934.33	4190556.46	5.40021	650984.33	4190556.46	5.58555
651034.33	4190556.46	5.63606	651084.33	4190556.46	5.51456
651134.33	4190556.46	5.27629	651184.33	4190556.46	5.03531
651234.33	4190556.46	4.83021	651284.33	4190556.46	4.63018
651334.33	4190556.46	4.40880	650334.33	4190606.46	2.68263
650384.33	4190606.46	2.90395	650434.33	4190606.46	3.17368
650484.33	4190606.46	3.50720	650534.33	4190606.46	3.92491
650584.33	4190606.46	4.43575	650634.33	4190606.46	5.00789
650684.33	4190606.46	5.54770	650734.33	4190606.46	5.89599
650784.33	4190606.46	5.98536	650834.33	4190606.46	5.99596
650884.33	4190606.46	6.20039	650934.33	4190606.46	6.52442
650984.33	4190606.46	6.73190	651034.33	4190606.46	6.71670
651084.33	4190606.46	6.47334	651134.33	4190606.46	6.15215
651184.33	4190606.46	5.86690	651234.33	4190606.46	5.59700
651284.33	4190606.46	5.30032	651334.33	4190606.46	4.97412
650334.33	4190656.46	2.98399	650384.33	4190656.46	3.23602
650434.33	4190656.46	3.53716	650484.33	4190656.46	3.91265
650534.33	4190656.46	4.39074	650584.33	4190656.46	5.00344
650634.33	4190656.46	5.74412	650684.33	4190656.46	6.51582
650734.33	4190656.46	7.09419	650784.33	4190656.46	7.29391
650834.33	4190656.46	7.33288	650884.33	4190656.46	7.63312
650934.33	4190656.46	8.06517	650984.33	4190656.46	8.27184
651034.33	4190656.46	8.11513	651084.33	4190656.46	7.71318
651134.33	4190656.46	7.30579	651184.33	4190656.46	6.92758
651234.33	4190656.46	6.51582	651284.33	4190656.46	6.06164
651334.33	4190656.46	5.59189	650334.33	4190706.46	3.33110
650384.33	4190706.46	3.64441	650434.33	4190706.46	3.99732
650484.33	4190706.46	4.42411	650534.33	4190706.46	4.97188
650584.33	4190706.46	5.69535	650634.33	4190706.46	6.63913

650684.33	4190706.46	7.73346	650734.33	4190706.46	8.69027
650784.33	4190706.46	9.11234	650834.33	4190706.46	9.21215
650884.33	4190706.46	9.67409	650934.33	4190706.46	10.25664
650984.33	4190706.46	10.38841	651034.33	4190706.46	9.97755
651084.33	4190706.46	9.39161	651134.33	4190706.46	8.83696

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	8.23956	651234.33	4190706.46	7.57807
651284.33	4190706.46	6.89723	651334.33	4190706.46	6.23650
650334.33	4190756.46	3.70219	650384.33	4190756.46	4.11276
650434.33	4190756.46	4.57062	650484.33	4190756.46	5.09042
650534.33	4190756.46	5.72816	650584.33	4190756.46	6.57820
650634.33	4190756.46	7.75244	650684.33	4190756.46	9.28508
650734.33	4190756.46	10.86308	650784.33	4190756.46	11.74707
650834.33	4190756.46	11.98504	650884.33	4190756.46	12.73903
650934.33	4190756.46	13.51322	650984.33	4190756.46	13.38170
651034.33	4190756.46	12.58544	651084.33	4190756.46	11.72877
651134.33	4190756.46	10.81103	651184.33	4190756.46	9.78957
651234.33	4190756.46	8.74687	651284.33	4190756.46	7.75541
651334.33	4190756.46	6.85471	650334.33	4190806.46	4.09350
650384.33	4190806.46	4.61259	650434.33	4190806.46	5.22414
650484.33	4190806.46	5.93146	650534.33	4190806.46	6.74977
650584.33	4190806.46	7.77325	650634.33	4190806.46	9.20963
650684.33	4190806.46	11.29842	650734.33	4190806.46	13.88997
650784.33	4190806.46	15.76793	650834.33	4190806.46	16.34825
650884.33	4190806.46	17.67621	650934.33	4190806.46	18.60708
650984.33	4190806.46	17.82214	651034.33	4190806.46	16.43768
651084.33	4190806.46	14.91594	651134.33	4190806.46	13.20840
651184.33	4190806.46	11.49198	651234.33	4190806.46	9.91496
651284.33	4190806.46	8.54440	651334.33	4190806.46	7.39133
650334.33	4190856.46	4.53367	650384.33	4190856.46	5.16054
650434.33	4190856.46	5.93228	650484.33	4190856.46	6.88739
650534.33	4190856.46	8.05652	650584.33	4190856.46	9.46606
650634.33	4190856.46	11.28373	650684.33	4190856.46	14.03099
650734.33	4190856.46	18.20663	650784.33	4190856.46	22.31451
650834.33	4190856.46	23.85702	650884.33	4190856.46	26.43661
650934.33	4190856.46	27.09966	650984.33	4190856.46	24.92737
651034.33	4190856.46	22.12476	651084.33	4190856.46	18.92843
651134.33	4190856.46	15.81306	651184.33	4190856.46	13.11749
651234.33	4190856.46	10.92779	651284.33	4190856.46	9.19381
651334.33	4190856.46	7.82470	650334.33	4190906.46	5.02473
650384.33	4190906.46	5.78828	650434.33	4190906.46	6.74478

650484.33	4190906.46	7.96659	650534.33	4190906.46	9.56087
650584.33	4190906.46	11.66735	650634.33	4190906.46	14.41909
650684.33	4190906.46	18.18246	650734.33	4190906.46	24.56162
650784.33	4190906.46	33.83712	650834.33	4190906.46	38.61177
650884.33	4190906.46	44.27206	650934.33	4190906.46	42.70778

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	36.75089	651034.33	4190906.46	29.63755
651084.33	4190906.46	23.15575	651134.33	4190906.46	18.11798
651184.33	4190906.46	14.41472	651234.33	4190906.46	11.70076
651284.33	4190906.46	9.67856	651334.33	4190906.46	8.13999
650334.33	4190956.46	5.52741	650384.33	4190956.46	6.44951
650434.33	4190956.46	7.63843	650484.33	4190956.46	9.20712
650534.33	4190956.46	11.33282	650584.33	4190956.46	14.30673
650634.33	4190956.46	18.62775	650684.33	4190956.46	25.08735
650734.33	4190956.46	35.14977	650784.33	4190956.46	55.67839
650834.33	4190956.46	74.50222	650884.33	4190956.46	88.72599
650934.33	4190956.46	74.63307	650984.33	4190956.46	53.40542
651034.33	4190956.46	36.95547	651084.33	4190956.46	26.41876
651134.33	4190956.46	19.70334	651184.33	4190956.46	15.24658
651234.33	4190956.46	12.15840	651284.33	4190956.46	9.93654
651334.33	4190956.46	8.28630	650334.33	4191006.46	6.03663
650384.33	4191006.46	7.12106	650434.33	4191006.46	8.55185
650484.33	4191006.46	10.49954	650534.33	4191006.46	13.25553
650584.33	4191006.46	17.35011	650634.33	4191006.46	23.82413
650684.33	4191006.46	34.90365	650734.33	4191006.46	55.74375
650784.33	4191006.46	99.24741	650834.33	4191006.46	198.44341
650884.33	4191006.46	235.17717	650934.33	4191006.46	122.57952
650984.33	4191006.46	66.22434	651034.33	4191006.46	40.86946
651084.33	4191006.46	27.76482	651134.33	4191006.46	20.16810
651184.33	4191006.46	15.37576	651234.33	4191006.46	12.15455
651284.33	4191006.46	9.88095	651334.33	4191006.46	8.21310
650334.33	4191056.46	6.43134	650384.33	4191056.46	7.64874
650434.33	4191056.46	9.28163	650484.33	4191056.46	11.55256
650534.33	4191056.46	14.86049	650584.33	4191056.46	19.98213
650634.33	4191056.46	28.60781	650684.33	4191056.46	45.03001
650734.33	4191056.46	82.85538	650784.33	4191056.46	195.94267
650834.33	4191056.46	0.00000	650884.33	4191056.46	349.53879
650934.33	4191056.46	125.10008	650984.33	4191056.46	63.38945
651034.33	4191056.46	38.67519	651084.33	4191056.46	26.29204
651134.33	4191056.46	19.17075	651184.33	4191056.46	14.67864
651234.33	4191056.46	11.65098	651284.33	4191056.46	9.50619

651334.33	4191056.46	7.92687	650334.33	4191106.46	6.51538
650384.33	4191106.46	7.73624	650434.33	4191106.46	9.36552
650484.33	4191106.46	11.61526	650534.33	4191106.46	14.85797
650584.33	4191106.46	19.79653	650634.33	4191106.46	27.88192
650684.33	4191106.46	42.44805	650734.33	4191106.46	72.19252

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	139.35495	650834.33	4191106.46	123.06297
650884.33	4191106.46	87.85977	650934.33	4191106.46	62.13534
650984.33	4191106.46	42.53668	651034.33	4191106.46	29.78539
651084.33	4191106.46	21.79227	651134.33	4191106.46	16.60911
651184.33	4191106.46	13.09254	651234.33	4191106.46	10.60534
651284.33	4191106.46	8.78259	651334.33	4191106.46	7.40635
650334.33	4191156.46	6.28352	650384.33	4191156.46	7.40398
650434.33	4191156.46	8.87682	650484.33	4191156.46	10.86718
650534.33	4191156.46	13.64136	650584.33	4191156.46	17.63624
650634.33	4191156.46	23.60130	650684.33	4191156.46	33.07332
650734.33	4191156.46	48.06719	650784.33	4191156.46	56.36795
650834.33	4191156.46	45.88529	650884.33	4191156.46	37.88139
650934.33	4191156.46	29.94320	650984.33	4191156.46	24.05741
651034.33	4191156.46	19.59322	651084.33	4191156.46	15.95389
651134.33	4191156.46	13.05810	651184.33	4191156.46	10.80788
651234.33	4191156.46	9.06539	651284.33	4191156.46	7.70459
651334.33	4191156.46	6.62780	650334.33	4191206.46	5.94170
650384.33	4191206.46	6.93936	650434.33	4191206.46	8.21198
650484.33	4191206.46	9.85653	650534.33	4191206.46	12.01377
650584.33	4191206.46	14.93173	650634.33	4191206.46	19.08698
650684.33	4191206.46	24.65384	650734.33	4191206.46	28.91359
650784.33	4191206.46	27.43909	650834.33	4191206.46	23.80472
650884.33	4191206.46	21.18978	650934.33	4191206.46	18.10872
650984.33	4191206.46	15.27615	651034.33	4191206.46	13.04060
651084.33	4191206.46	11.29451	651134.33	4191206.46	9.82658
651184.33	4191206.46	8.54891	651234.33	4191206.46	7.44766
651284.33	4191206.46	6.51476	651334.33	4191206.46	5.73198
650334.33	4191256.46	5.55324	650384.33	4191256.46	6.39240
650434.33	4191256.46	7.42067	650484.33	4191256.46	8.70236
650534.33	4191256.46	10.35940	650584.33	4191256.46	12.56680
650634.33	4191256.46	15.24998	650684.33	4191256.46	17.46905
650734.33	4191256.46	17.84192	650784.33	4191256.46	16.24341
650834.33	4191256.46	14.74037	650884.33	4191256.46	13.62573
650934.33	4191256.46	12.17692	650984.33	4191256.46	10.73921
651034.33	4191256.46	9.41414	651084.33	4191256.46	8.31902

651134.33	4191256.46	7.42925	651184.33	4191256.46	6.68105
651234.33	4191256.46	6.01873	651284.33	4191256.46	5.41939
651334.33	4191256.46	4.88022	650334.33	4191306.46	5.10498
650384.33	4191306.46	5.78763	650434.33	4191306.46	6.61761
650484.33	4191306.46	7.66204	650534.33	4191306.46	8.98339

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	10.49207	650634.33	4191306.46	11.77906
650684.33	4191306.46	12.31367	650734.33	4191306.46	11.89133
650784.33	4191306.46	10.85176	650834.33	4191306.46	10.12695
650884.33	4191306.46	9.55536	650934.33	4191306.46	8.78756
650984.33	4191306.46	7.98377	651034.33	4191306.46	7.18555
651084.33	4191306.46	6.45906	651134.33	4191306.46	5.83679
651184.33	4191306.46	5.31158	651234.33	4191306.46	4.86673
651284.33	4191306.46	4.47558	651334.33	4191306.46	4.11819
650334.33	4191356.46	4.65042	650384.33	4191356.46	5.22502
650434.33	4191356.46	5.93213	650484.33	4191356.46	6.78995
650534.33	4191356.46	7.72855	650584.33	4191356.46	8.54256
650634.33	4191356.46	8.98921	650684.33	4191356.46	8.95916
650734.33	4191356.46	8.48071	650784.33	4191356.46	7.83617
650834.33	4191356.46	7.44426	650884.33	4191356.46	7.11159
650934.33	4191356.46	6.66868	650984.33	4191356.46	6.17581
651034.33	4191356.46	5.67980	651084.33	4191356.46	5.18995
651134.33	4191356.46	4.74791	651184.33	4191356.46	4.35832
651234.33	4191356.46	4.01846	651284.33	4191356.46	3.72615
651334.33	4191356.46	3.47067	650334.33	4191406.46	4.24766
650384.33	4191406.46	4.75162	650434.33	4191406.46	5.34227
650484.33	4191406.46	5.96933	650534.33	4191406.46	6.51895
650584.33	4191406.46	6.86508	650634.33	4191406.46	6.94817
650684.33	4191406.46	6.77010	650734.33	4191406.46	6.37179
650784.33	4191406.46	5.96889	650834.33	4191406.46	5.73755
650884.33	4191406.46	5.52620	650934.33	4191406.46	5.25027
650984.33	4191406.46	4.93177	651034.33	4191406.46	4.60483
651084.33	4191406.46	4.27231	651134.33	4191406.46	3.95094
651184.33	4191406.46	3.66140	651234.33	4191406.46	3.40019
651284.33	4191406.46	3.16606	651334.33	4191406.46	2.96084
650334.33	4191456.46	3.90690	650384.33	4191456.46	4.33221
650434.33	4191456.46	4.77388	650484.33	4191456.46	5.16403
650534.33	4191456.46	5.43080	650584.33	4191456.46	5.53886
650634.33	4191456.46	5.49015	650684.33	4191456.46	5.28974
650734.33	4191456.46	4.98259	650784.33	4191456.46	4.72568
650834.33	4191456.46	4.57934	650884.33	4191456.46	4.43637

650934.33	4191456.46	4.25244	650984.33	4191456.46	4.03892
651034.33	4191456.46	3.81203	651084.33	4191456.46	3.58117
651134.33	4191456.46	3.34657	651184.33	4191456.46	3.12491
651234.33	4191456.46	2.92462	651284.33	4191456.46	2.74045
651334.33	4191456.46	2.57155	650334.33	4191506.46	3.59680

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.92083	650434.33	4191506.46	4.20885
650484.33	4191506.46	4.41691	650534.33	4191506.46	4.52237
650584.33	4191506.46	4.52717	650634.33	4191506.46	4.43582
650684.33	4191506.46	4.24970	650734.33	4191506.46	4.01978
650784.33	4191506.46	3.85209	650834.33	4191506.46	3.75418
650884.33	4191506.46	3.65282	650934.33	4191506.46	3.52339
650984.33	4191506.46	3.37456	651034.33	4191506.46	3.21272
651084.33	4191506.46	3.04571	651134.33	4191506.46	2.87473
651184.33	4191506.46	2.70336	651234.33	4191506.46	2.54432
651284.33	4191506.46	2.39984	651334.33	4191506.46	2.26481
650334.33	4191556.46	3.28861	650384.33	4191556.46	3.50800
650434.33	4191556.46	3.67285	650484.33	4191556.46	3.76785
650534.33	4191556.46	3.79418	650584.33	4191556.46	3.75739
650634.33	4191556.46	3.65558	650684.33	4191556.46	3.49418
650734.33	4191556.46	3.32438	650784.33	4191556.46	3.21225
650834.33	4191556.46	3.14360	650884.33	4191556.46	3.06908
650934.33	4191556.46	2.97415	650984.33	4191556.46	2.86604
651034.33	4191556.46	2.74845	651084.33	4191556.46	2.62382
651134.33	4191556.46	2.49646	651184.33	4191556.46	2.36563
651234.33	4191556.46	2.23703	651284.33	4191556.46	2.11925
651334.33	4191556.46	2.01152	650934.45	4191196.80	19.74835
650934.45	4191240.55	13.69030	651071.58	4191520.04	2.96075
650517.18	4191503.06	4.55147	650941.63	4190991.11	100.33041
650974.28	4190903.61	37.17621	650989.95	4190868.34	26.87278
651153.79	4190886.56	15.86994	651170.44	4190902.10	15.21597
651162.67	4190888.23	15.33070	651241.49	4191031.43	11.59752
650569.32	4190797.20	7.19270	650392.81	4190782.21	4.45254

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.55067	650384.33	4190556.46	2.77543
650434.33	4190556.46	3.04910	650484.33	4190556.46	3.38485
650534.33	4190556.46	3.78398	650584.33	4190556.46	4.22155
650634.33	4190556.46	4.63456	650684.33	4190556.46	4.91820
650734.33	4190556.46	5.01344	650784.33	4190556.46	4.99960
650834.33	4190556.46	5.07351	650884.33	4190556.46	5.30116
650934.33	4190556.46	5.52493	650984.33	4190556.46	5.63533
651034.33	4190556.46	5.58314	651084.33	4190556.46	5.37768
651134.33	4190556.46	5.12717	651184.33	4190556.46	4.90936
651234.33	4190556.46	4.71192	651284.33	4190556.46	4.50039
651334.33	4190556.46	4.26500	650334.33	4190606.46	2.81038
650384.33	4190606.46	3.05910	650434.33	4190606.46	3.36490
650484.33	4190606.46	3.74650	650534.33	4190606.46	4.22115
650584.33	4190606.46	4.77590	650634.33	4190606.46	5.34524
650684.33	4190606.46	5.78881	650734.33	4190606.46	5.97501
650784.33	4190606.46	5.98028	650834.33	4190606.46	6.09005
650884.33	4190606.46	6.39871	650934.33	4190606.46	6.67133
650984.33	4190606.46	6.75356	651034.33	4190606.46	6.59060
651084.33	4190606.46	6.27913	651134.33	4190606.46	5.97610
651184.33	4190606.46	5.70662	651234.33	4190606.46	5.42318
651284.33	4190606.46	5.10713	651334.33	4190606.46	4.77142
650334.33	4190656.46	3.13070	650384.33	4190656.46	3.40919
650434.33	4190656.46	3.75190	650484.33	4190656.46	4.18500
650534.33	4190656.46	4.74099	650584.33	4190656.46	5.43627
650634.33	4190656.46	6.21475	650684.33	4190656.46	6.90389
650734.33	4190656.46	7.25654	650784.33	4190656.46	7.30467
650834.33	4190656.46	7.47400	650884.33	4190656.46	7.90484
650934.33	4190656.46	8.22901	650984.33	4190656.46	8.22105
651034.33	4190656.46	7.88520	651084.33	4190656.46	7.46220
651134.33	4190656.46	7.08002	651184.33	4190656.46	6.68653
651234.33	4190656.46	6.24685	651284.33	4190656.46	5.77990
651334.33	4190656.46	5.31283	650334.33	4190706.46	3.51551
650384.33	4190706.46	3.84967	650434.33	4190706.46	4.24162
650484.33	4190706.46	4.73503	650534.33	4190706.46	5.38092
650584.33	4190706.46	6.23567	650634.33	4190706.46	7.29005
650684.33	4190706.46	8.35354	650734.33	4190706.46	9.01580
650784.33	4190706.46	9.16035	650834.33	4190706.46	9.43446
650884.33	4190706.46	10.05583	650934.33	4190706.46	10.40780
650984.33	4190706.46	10.18852	651034.33	4190706.46	9.62335
651084.33	4190706.46	9.05872	651134.33	4190706.46	8.48758

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	7.84782	651234.33	4190706.46	7.16893
651284.33	4190706.46	6.49664	651334.33	4190706.46	5.85966
650334.33	4190756.46	3.94291	650384.33	4190756.46	4.38153
650434.33	4190756.46	4.87261	650484.33	4190756.46	5.45340
650534.33	4190756.46	6.20580	650584.33	4190756.46	7.23705
650634.33	4190756.46	8.63821	650684.33	4190756.46	10.26870
650734.33	4190756.46	11.51578	650784.33	4190756.46	11.88552
650834.33	4190756.46	12.35846	650884.33	4190756.46	13.28434
650934.33	4190756.46	13.55417	650984.33	4190756.46	12.93172
651034.33	4190756.46	12.07025	651084.33	4190756.46	11.19280
651134.33	4190756.46	10.20599	651184.33	4190756.46	9.16100
651234.33	4190756.46	8.14272	651284.33	4190756.46	7.20259
651334.33	4190756.46	6.36560	650334.33	4190806.46	4.39429
650384.33	4190806.46	4.96808	650434.33	4190806.46	5.63691
650484.33	4190806.46	6.40582	650534.33	4190806.46	7.32800
650584.33	4190806.46	8.56904	650634.33	4190806.46	10.37595
650684.33	4190806.46	12.84355	650734.33	4190806.46	15.21260
650784.33	4190806.46	16.14217	650834.33	4190806.46	17.03218
650884.33	4190806.46	18.43996	650934.33	4190806.46	18.28916
650984.33	4190806.46	17.00109	651034.33	4190806.46	15.55144
651084.33	4190806.46	13.90380	651134.33	4190806.46	12.16804
651184.33	4190806.46	10.52323	651234.33	4190806.46	9.06618
651284.33	4190806.46	7.82734	651334.33	4190806.46	6.79603
650334.33	4190856.46	4.89448	650384.33	4190856.46	5.60374
650434.33	4190856.46	6.48099	650484.33	4190856.46	7.56201
650534.33	4190856.46	8.86914	650584.33	4190856.46	10.48253
650634.33	4190856.46	12.77516	650684.33	4190856.46	16.38151
650734.33	4190856.46	20.92722	650784.33	4190856.46	23.37677
650834.33	4190856.46	25.27124	650884.33	4190856.46	27.33461
650934.33	4190856.46	25.92137	650984.33	4190856.46	23.30695
651034.33	4190856.46	20.22628	651084.33	4190856.46	17.02104
651134.33	4190856.46	14.13548	651184.33	4190856.46	11.74447
651234.33	4190856.46	9.83837	651284.33	4190856.46	8.33439
651334.33	4190856.46	7.14213	650334.33	4190906.46	5.46285
650384.33	4190906.46	6.33506	650434.33	4190906.46	7.44006
650484.33	4190906.46	8.86995	650534.33	4190906.46	10.75415
650584.33	4190906.46	13.23207	650634.33	4190906.46	16.49059
650684.33	4190906.46	21.54489	650734.33	4190906.46	30.15802
650784.33	4190906.46	37.25771	650834.33	4190906.46	42.11049
650884.33	4190906.46	44.33042	650934.33	4190906.46	39.35347

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	32.50099	651034.33	4190906.46	25.59084
651084.33	4190906.46	19.95598	651134.33	4190906.46	15.75772
651184.33	4190906.46	12.68876	651234.33	4190906.46	10.41958
651284.33	4190906.46	8.70755	651334.33	4190906.46	7.38883
650334.33	4190956.46	6.05349	650384.33	4190956.46	7.12471
650434.33	4190956.46	8.52459	650484.33	4190956.46	10.40044
650534.33	4190956.46	12.98957	650584.33	4190956.46	16.69335
650634.33	4190956.46	22.18696	650684.33	4190956.46	30.46143
650734.33	4190956.46	45.67197	650784.33	4190956.46	69.20086
650834.33	4190956.46	85.98035	650884.33	4190956.46	82.15148
650934.33	4190956.46	61.71384	650984.33	4190956.46	42.73094
651034.33	4190956.46	30.05894	651084.33	4190956.46	22.04937
651134.33	4190956.46	16.82657	651184.33	4190956.46	13.26765
651234.33	4190956.46	10.74347	651284.33	4190956.46	8.89121
651334.33	4190956.46	7.49235	650334.33	4191006.46	6.65268
650384.33	4191006.46	7.92898	650434.33	4191006.46	9.64346
650484.33	4191006.46	12.02964	650534.33	4191006.46	15.50148
650584.33	4191006.46	20.84590	650634.33	4191006.46	29.68783
650684.33	4191006.46	45.68763	650734.33	4191006.46	77.36177
650784.33	4191006.46	160.43857	650834.33	4191006.46	261.09810
650884.33	4191006.46	162.06543	650934.33	4191006.46	83.24856
650984.33	4191006.46	48.90320	651034.33	4191006.46	32.10583
651084.33	4191006.46	22.76688	651134.33	4191006.46	17.05423
651184.33	4191006.46	13.30296	651234.33	4191006.46	10.70274
651284.33	4191006.46	8.82257	651334.33	4191006.46	7.41625
650334.33	4191056.46	7.12079	650384.33	4191056.46	8.56708
650434.33	4191056.46	10.54758	650484.33	4191056.46	13.37541
650534.33	4191056.46	17.63878	650584.33	4191056.46	24.55690
650634.33	4191056.46	37.02144	650684.33	4191056.46	63.34141
650734.33	4191056.46	134.47709	650784.33	4191056.46	223.98145
650834.33	4191056.46	544.28643	650884.33	4191056.46	178.85491
650934.33	4191056.46	80.82347	650984.33	4191056.46	46.37631
651034.33	4191056.46	30.37507	651084.33	4191056.46	21.60517
651134.33	4191056.46	16.25298	651184.33	4191056.46	12.73159
651234.33	4191056.46	10.28237	651284.33	4191056.46	8.50467
651334.33	4191056.46	7.17007	650334.33	4191106.46	7.20742
650384.33	4191106.46	8.65373	650434.33	4191106.46	10.62201
650484.33	4191106.46	13.40725	650534.33	4191106.46	17.54947
650584.33	4191106.46	24.12148	650634.33	4191106.46	35.48099
650684.33	4191106.46	57.44600	650734.33	4191106.46	106.71432

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	151.03431	650834.33	4191106.46	100.92548
650884.33	4191106.46	71.69174	650934.33	4191106.46	49.51020
650984.33	4191106.46	34.17700	651034.33	4191106.46	24.56369
651084.33	4191106.46	18.43307	651134.33	4191106.46	14.34793
651184.33	4191106.46	11.50433	651234.33	4191106.46	9.44825
651284.33	4191106.46	7.91329	651334.33	4191106.46	6.73623
650334.33	4191156.46	6.92042	650384.33	4191156.46	8.23655
650434.33	4191156.46	9.99480	650484.33	4191156.46	12.41457
650534.33	4191156.46	15.85360	650584.33	4191156.46	20.90859
650634.33	4191156.46	28.70295	650684.33	4191156.46	41.50787
650734.33	4191156.46	55.85869	650784.33	4191156.46	49.91069
650834.33	4191156.46	41.35160	650884.33	4191156.46	32.93951
650934.33	4191156.46	26.17158	650984.33	4191156.46	21.26834
651034.33	4191156.46	17.31751	651084.33	4191156.46	14.13184
651134.33	4191156.46	11.63919	651184.33	4191156.46	9.71012
651234.33	4191156.46	8.21002	651284.33	4191156.46	7.02952
651334.33	4191156.46	6.08748	650334.33	4191206.46	6.51173
650384.33	4191206.46	7.66445	650434.33	4191206.46	9.14641
650484.33	4191206.46	11.07725	650534.33	4191206.46	13.64875
650584.33	4191206.46	17.23845	650634.33	4191206.46	22.32941
650684.33	4191206.46	27.71359	650734.33	4191206.46	28.76061
650784.33	4191206.46	24.95432	650834.33	4191206.46	22.37513
650884.33	4191206.46	19.32151	650934.33	4191206.46	16.34960
650984.33	4191206.46	13.86244	651034.33	4191206.46	11.95003
651084.33	4191206.46	10.38872	651134.33	4191206.46	9.03862
651184.33	4191206.46	7.86727	651234.33	4191206.46	6.86870
651284.33	4191206.46	6.02853	651334.33	4191206.46	5.32473
650334.33	4191256.46	6.03660	650384.33	4191256.46	6.98339
650434.33	4191256.46	8.15324	650484.33	4191256.46	9.64033
650534.33	4191256.46	11.60970	650584.33	4191256.46	14.15562
650634.33	4191256.46	16.73526	650684.33	4191256.46	17.96774
650734.33	4191256.46	17.02864	650784.33	4191256.46	15.20406
650834.33	4191256.46	14.12566	650884.33	4191256.46	12.76185
650934.33	4191256.46	11.31180	650984.33	4191256.46	9.91835
651034.33	4191256.46	8.72966	651084.33	4191256.46	7.76423
651134.33	4191256.46	6.96761	651184.33	4191256.46	6.27549
651234.33	4191256.46	5.65196	651284.33	4191256.46	5.08857
651334.33	4191256.46	4.58599	650334.33	4191306.46	5.49965
650384.33	4191306.46	6.26427	650434.33	4191306.46	7.21337
650484.33	4191306.46	8.42133	650534.33	4191306.46	9.88480

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	11.32817	650634.33	4191306.46	12.21329
650684.33	4191306.46	12.17015	650734.33	4191306.46	11.28119
650784.33	4191306.46	10.35521	650834.33	4191306.46	9.80746
650884.33	4191306.46	9.10926	650934.33	4191306.46	8.30419
650984.33	4191306.46	7.50139	651034.33	4191306.46	6.73702
651084.33	4191306.46	6.07359	651134.33	4191306.46	5.51071
651184.33	4191306.46	5.03672	651234.33	4191306.46	4.62717
651284.33	4191306.46	4.25783	651334.33	4191306.46	3.91631
650334.33	4191356.46	4.98144	650384.33	4191356.46	5.63114
650434.33	4191356.46	6.43028	650484.33	4191356.46	7.35377
650534.33	4191356.46	8.24898	650584.33	4191356.46	8.86561
650634.33	4191356.46	9.02889	650684.33	4191356.46	8.71792
650734.33	4191356.46	8.07781	650784.33	4191356.46	7.57220
650834.33	4191356.46	7.25683	650884.33	4191356.46	6.85726
650934.33	4191356.46	6.37339	650984.33	4191356.46	5.87933
651034.33	4191356.46	5.38196	651084.33	4191356.46	4.91801
651134.33	4191356.46	4.50824	651184.33	4191356.46	4.14839
651234.33	4191356.46	3.83790	651284.33	4191356.46	3.56933
651334.33	4191356.46	3.32954	650334.33	4191406.46	4.53890
650384.33	4191406.46	5.09731	650434.33	4191406.46	5.72025
650484.33	4191406.46	6.31726	650534.33	4191406.46	6.75686
650584.33	4191406.46	6.94695	650634.33	4191406.46	6.87190
650684.33	4191406.46	6.54907	650734.33	4191406.46	6.11078
650784.33	4191406.46	5.81615	650834.33	4191406.46	5.61805
650884.33	4191406.46	5.36772	650934.33	4191406.46	5.06167
650984.33	4191406.46	4.73589	651034.33	4191406.46	4.40579
651084.33	4191406.46	4.07611	651134.33	4191406.46	3.77342
651184.33	4191406.46	3.50156	651234.33	4191406.46	3.25627
651284.33	4191406.46	3.03953	651334.33	4191406.46	2.85043
650334.33	4191456.46	4.15731	650384.33	4191456.46	4.59905
650434.33	4191456.46	5.01920	650484.33	4191456.46	5.34227
650534.33	4191456.46	5.51497	650584.33	4191456.46	5.52798
650634.33	4191456.46	5.38755	650684.33	4191456.46	5.10994
650734.33	4191456.46	4.81263	650784.33	4191456.46	4.63104
650834.33	4191456.46	4.49839	650884.33	4191456.46	4.33036
650934.33	4191456.46	4.12697	650984.33	4191456.46	3.90331
651034.33	4191456.46	3.67424	651084.33	4191456.46	3.44004
651134.33	4191456.46	3.21095	651184.33	4191456.46	3.00248
651234.33	4191456.46	2.81241	651284.33	4191456.46	2.63708
651334.33	4191456.46	2.47877	650334.33	4191506.46	3.79287

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	4.10104	650434.33	4191506.46	4.34539
650484.33	4191506.46	4.49273	650534.33	4191506.46	4.53680
650584.33	4191506.46	4.48407	650634.33	4191506.46	4.33427
650684.33	4191506.46	4.10995	650734.33	4191506.46	3.90757
650784.33	4191506.46	3.79004	650834.33	4191506.46	3.69675
650884.33	4191506.46	3.57803	650934.33	4191506.46	3.43596
650984.33	4191506.46	3.27853	651034.33	4191506.46	3.11281
651084.33	4191506.46	2.94373	651134.33	4191506.46	2.77109
651184.33	4191506.46	2.60597	651234.33	4191506.46	2.45624
651284.33	4191506.46	2.31786	651334.33	4191506.46	2.18787
650334.33	4191556.46	3.42536	650384.33	4191556.46	3.61485
650434.33	4191556.46	3.73845	650484.33	4191556.46	3.79142
650534.33	4191556.46	3.77963	650584.33	4191556.46	3.70436
650634.33	4191556.46	3.56395	650684.33	4191556.46	3.38804
650734.33	4191556.46	3.24901	650784.33	4191556.46	3.16956
650834.33	4191556.46	3.10135	650884.33	4191556.46	3.01421
650934.33	4191556.46	2.91044	650984.33	4191556.46	2.79660
651034.33	4191556.46	2.67413	651084.33	4191556.46	2.54776
651134.33	4191556.46	2.41826	651184.33	4191556.46	2.28750
651234.33	4191556.46	2.16490	651284.33	4191556.46	2.05374
651334.33	4191556.46	1.94971	650934.45	4191196.80	17.71343
650934.45	4191240.55	12.61934	651071.58	4191520.04	2.86753
650517.18	4191503.06	4.59017	650941.63	4190991.11	72.32361
650974.28	4190903.61	33.28157	650989.95	4190868.34	24.83265
651153.79	4190886.56	13.97804	651170.44	4190902.10	13.36750
651162.67	4190888.23	13.51386	651241.49	4191031.43	10.23861
650569.32	4190797.20	7.88290	650392.81	4190782.21	4.77161

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.19337	650384.33	4190556.46	2.37268
650434.33	4190556.46	2.58749	650484.33	4190556.46	2.84548
650534.33	4190556.46	3.14577	650584.33	4190556.46	3.47227
650634.33	4190556.46	3.78718	650684.33	4190556.46	4.02566
650734.33	4190556.46	4.13692	650784.33	4190556.46	4.13745

650834.33	4190556.46	4.12730	650884.33	4190556.46	4.22650
650934.33	4190556.46	4.40990	650984.33	4190556.46	4.56447
651034.33	4190556.46	4.64099	651084.33	4190556.46	4.61066
651134.33	4190556.46	4.46771	651184.33	4190556.46	4.27512
651234.33	4190556.46	4.10054	651284.33	4190556.46	3.95393
651334.33	4190556.46	3.81066	650334.33	4190606.46	2.39058
650384.33	4190606.46	2.58779	650434.33	4190606.46	2.82551
650484.33	4190606.46	3.11591	650534.33	4190606.46	3.46743
650584.33	4190606.46	3.86984	650634.33	4190606.46	4.28489
650684.33	4190606.46	4.63240	650734.33	4190606.46	4.82053
650784.33	4190606.46	4.84639	650834.33	4190606.46	4.84173
650884.33	4190606.46	4.97709	650934.33	4190606.46	5.21204
650984.33	4190606.46	5.39221	651034.33	4190606.46	5.44998
651084.33	4190606.46	5.34767	651134.33	4190606.46	5.12607
651184.33	4190606.46	4.89268	651234.33	4190606.46	4.69480
651284.33	4190606.46	4.50770	651334.33	4190606.46	4.30285
650334.33	4190656.46	2.62891	650384.33	4190656.46	2.84582
650434.33	4190656.46	3.10990	650484.33	4190656.46	3.43573
650534.33	4190656.46	3.84207	650584.33	4190656.46	4.33364
650634.33	4190656.46	4.87636	650684.33	4190656.46	5.37842
650734.33	4190656.46	5.69295	650784.33	4190656.46	5.76792
650834.33	4190656.46	5.77496	650884.33	4190656.46	5.96516
650934.33	4190656.46	6.27172	650984.33	4190656.46	6.47568
651034.33	4190656.46	6.47844	651084.33	4190656.46	6.26281
651134.33	4190656.46	5.95798	651184.33	4190656.46	5.68348
651234.33	4190656.46	5.43146	651284.33	4190656.46	5.15874
651334.33	4190656.46	4.85647	650334.33	4190706.46	2.91948
650384.33	4190706.46	3.16361	650434.33	4190706.46	3.45775
650484.33	4190706.46	3.82436	650534.33	4190706.46	4.28977
650584.33	4190706.46	4.88144	650634.33	4190706.46	5.58550
650684.33	4190706.46	6.30444	650734.33	4190706.46	6.82719
650784.33	4190706.46	6.99838	650834.33	4190706.46	7.02988
650884.33	4190706.46	7.30696	650934.33	4190706.46	7.71434
650984.33	4190706.46	7.92477	651034.33	4190706.46	7.80434
651084.33	4190706.46	7.43628	651134.33	4190706.46	7.04789

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	6.69560	651234.33	4190706.46	6.32008
651284.33	4190706.46	5.90259	651334.33	4190706.46	5.46497
650334.33	4190756.46	3.25908	650384.33	4190756.46	3.55691
650434.33	4190756.46	3.89618	650484.33	4190756.46	4.31113
650534.33	4190756.46	4.84403	650584.33	4190756.46	5.54442

650634.33	4190756.46	6.44515	650684.33	4190756.46	7.46636
650734.33	4190756.46	8.33177	650784.33	4190756.46	8.69581
650834.33	4190756.46	8.77934	650884.33	4190756.46	9.20134
650934.33	4190756.46	9.75002	650984.33	4190756.46	9.90699
651034.33	4190756.46	9.55721	651084.33	4190756.46	9.01075
651134.33	4190756.46	8.49648	651184.33	4190756.46	7.95708
651234.33	4190756.46	7.35520	651284.33	4190756.46	6.72593
651334.33	4190756.46	6.10766	650334.33	4190806.46	3.62678
650384.33	4190806.46	4.01599	650434.33	4190806.46	4.44782
650484.33	4190806.46	4.94259	650534.33	4190806.46	5.55876
650584.33	4190806.46	6.38162	650634.33	4190806.46	7.50776
650684.33	4190806.46	8.94284	650734.33	4190806.46	10.37088
650784.33	4190806.46	11.13294	650834.33	4190806.46	11.33304
650884.33	4190806.46	12.01293	650934.33	4190806.46	12.74702
650984.33	4190806.46	12.69165	651034.33	4190806.46	11.98358
651084.33	4190806.46	11.19780	651134.33	4190806.46	10.38002
651184.33	4190806.46	9.46291	651234.33	4190806.46	8.50844
651284.33	4190806.46	7.58614	651334.33	4190806.46	6.73620
650334.33	4190856.46	4.01247	650384.33	4190856.46	4.51022
650434.33	4190856.46	5.08941	650484.33	4190856.46	5.75161
650534.33	4190856.46	6.52061	650584.33	4190856.46	7.50059
650634.33	4190856.46	8.88064	650684.33	4190856.46	10.84984
650734.33	4190856.46	13.19829	650784.33	4190856.46	14.81041
650834.33	4190856.46	15.29355	650884.33	4190856.46	16.47104
650934.33	4190856.46	17.38384	650984.33	4190856.46	16.77340
651034.33	4190856.46	15.53730	651084.33	4190856.46	14.20648
651134.33	4190856.46	12.70094	651184.33	4190856.46	11.14820
651234.33	4190856.46	9.68917	651284.33	4190856.46	8.39645
651334.33	4190856.46	7.29206	650334.33	4190906.46	4.44051
650384.33	4190906.46	5.04468	650434.33	4190906.46	5.78434
650484.33	4190906.46	6.68915	650534.33	4190906.46	7.77767
650584.33	4190906.46	9.08136	650634.33	4190906.46	10.79842
650684.33	4190906.46	13.40410	650734.33	4190906.46	17.21147
650784.33	4190906.46	20.71415	650834.33	4190906.46	21.97033
650884.33	4190906.46	24.20880	650934.33	4190906.46	25.00329

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	23.20091	651034.33	4190906.46	20.82254
651084.33	4190906.46	18.07658	651134.33	4190906.46	15.29740
651184.33	4190906.46	12.81274	651234.33	4190906.46	10.74310
651284.33	4190906.46	9.07636	651334.33	4190906.46	7.74659
650334.33	4190956.46	4.92477	650384.33	4190956.46	5.65787

650434.33	4190956.46	6.57263	650484.33	4190956.46	7.73609
650534.33	4190956.46	9.24207	650584.33	4190956.46	11.19610
650634.33	4190956.46	13.69514	650684.33	4190956.46	17.17533
650734.33	4190956.46	23.06673	650784.33	4190956.46	30.93685
650834.33	4190956.46	34.68523	650884.33	4190956.46	39.47090
650934.33	4190956.46	38.68160	650984.33	4190956.46	33.91932
651034.33	4190956.46	28.04663	651084.33	4190956.46	22.35088
651134.33	4190956.46	17.70568	651184.33	4190956.46	14.18797
651234.33	4190956.46	11.56748	651284.33	4190956.46	9.59671
651334.33	4190956.46	8.08831	650334.33	4191006.46	5.42594
650384.33	4191006.46	6.31639	650434.33	4191006.46	7.45772
650484.33	4191006.46	8.95211	650534.33	4191006.46	10.95835
650584.33	4191006.46	13.73526	650634.33	4191006.46	17.70718
650684.33	4191006.46	23.45725	650734.33	4191006.46	32.43958
650784.33	4191006.46	50.08182	650834.33	4191006.46	64.04317
650884.33	4191006.46	75.74547	650934.33	4191006.46	66.34140
650984.33	4191006.46	49.96093	651034.33	4191006.46	35.67446
651084.33	4191006.46	25.88800	651134.33	4191006.46	19.45847
651184.33	4191006.46	15.12733	651234.33	4191006.46	12.09942
651284.33	4191006.46	9.90802	651334.33	4191006.46	8.27373
650334.33	4191056.46	5.93732	650384.33	4191056.46	6.98878
650434.33	4191056.46	8.37029	650484.33	4191056.46	10.24074
650534.33	4191056.46	12.86796	650584.33	4191056.46	16.72942
650634.33	4191056.46	22.73270	650684.33	4191056.46	32.72906
650734.33	4191056.46	50.68818	650784.33	4191056.46	87.46182
650834.33	4191056.46	157.82943	650884.33	4191056.46	189.53961
650934.33	4191056.46	113.95331	650984.33	4191056.46	64.57529
651034.33	4191056.46	40.49905	651084.33	4191056.46	27.70375
651134.33	4191056.46	20.18932	651184.33	4191056.46	15.41647
651234.33	4191056.46	12.19627	651284.33	4191056.46	9.91851
651334.33	4191056.46	8.24553	650334.33	4191106.46	6.37214
650384.33	4191106.46	7.57073	650434.33	4191106.46	9.17523
650484.33	4191106.46	11.40093	650534.33	4191106.46	14.63162
650584.33	4191106.46	19.60857	650634.33	4191106.46	27.92563
650684.33	4191106.46	43.54884	650734.33	4191106.46	78.54212

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	175.33751	650834.33	4191106.46	62.52243
650884.33	4191106.46	384.35836	650934.33	4191106.46	131.57848
650984.33	4191106.46	65.59189	651034.33	4191106.46	39.67291
651084.33	4191106.46	26.82622	651134.33	4191106.46	19.48969
651184.33	4191106.46	14.88429	651234.33	4191106.46	11.79136

651284.33	4191106.46	9.60635	651334.33	4191106.46	8.00088
650334.33	4191156.46	6.52826	650384.33	4191156.46	7.76033
650434.33	4191156.46	9.40886	650484.33	4191156.46	11.69310
650534.33	4191156.46	15.00135	650584.33	4191156.46	20.07538
650634.33	4191156.46	28.47887	650684.33	4191156.46	43.95328
650734.33	4191156.46	76.96932	650784.33	4191156.46	161.58321
650834.33	4191156.46	156.64146	650884.33	4191156.46	111.12659
650934.33	4191156.46	74.07987	650984.33	4191156.46	47.33755
651034.33	4191156.46	31.94602	651084.33	4191156.46	22.90395
651134.33	4191156.46	17.24381	651184.33	4191156.46	13.48435
651234.33	4191156.46	10.86214	651284.33	4191156.46	8.95901
651334.33	4191156.46	7.53226	650334.33	4191206.46	6.34522
650384.33	4191206.46	7.48824	650434.33	4191206.46	8.99571
650484.33	4191206.46	11.04383	650534.33	4191206.46	13.92470
650584.33	4191206.46	18.13734	650634.33	4191206.46	24.56099
650684.33	4191206.46	34.94259	650734.33	4191206.46	52.67307
650784.33	4191206.46	67.09676	650834.33	4191206.46	54.07800
650884.33	4191206.46	43.62691	650934.33	4191206.46	33.81495
650984.33	4191206.46	26.81510	651034.33	4191206.46	21.38813
651084.33	4191206.46	17.07523	651134.33	4191206.46	13.77425
651184.33	4191206.46	11.28406	651234.33	4191206.46	9.39430
651284.33	4191206.46	7.93913	651334.33	4191206.46	6.79952
650334.33	4191256.46	6.01267	650384.33	4191256.46	7.03749
650434.33	4191256.46	8.35522	650484.33	4191256.46	10.07624
650534.33	4191256.46	12.35953	650584.33	4191256.46	15.46608
650634.33	4191256.46	19.91657	650684.33	4191256.46	26.25675
650734.33	4191256.46	32.06680	650784.33	4191256.46	31.10419
650834.33	4191256.46	26.67034	650884.33	4191256.46	23.47904
650934.33	4191256.46	19.81894	650984.33	4191256.46	16.55500
651034.33	4191256.46	14.05491	651084.33	4191256.46	12.08517
651134.33	4191256.46	10.41341	651184.33	4191256.46	8.97519
651234.33	4191256.46	7.75997	651284.33	4191256.46	6.74857
651334.33	4191256.46	5.91097	650334.33	4191306.46	5.63640
650384.33	4191306.46	6.50912	650434.33	4191306.46	7.58572
650484.33	4191306.46	8.93178	650534.33	4191306.46	10.66848

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	13.00317	650634.33	4191306.46	15.99312
650684.33	4191306.46	18.75847	650734.33	4191306.46	19.53314
650784.33	4191306.46	17.83211	650834.33	4191306.46	16.06324
650884.33	4191306.46	14.76362	650934.33	4191306.46	13.09843
650984.33	4191306.46	11.46225	651034.33	4191306.46	9.99337

651084.33	4191306.46	8.80170	651134.33	4191306.46	7.83670
651184.33	4191306.46	7.01587	651234.33	4191306.46	6.28480
651284.33	4191306.46	5.62762	651334.33	4191306.46	5.04383
650334.33	4191356.46	5.19739	650384.33	4191356.46	5.90833
650434.33	4191356.46	6.77090	650484.33	4191356.46	7.85379
650534.33	4191356.46	9.24213	650584.33	4191356.46	10.89909
650634.33	4191356.46	12.42827	650684.33	4191356.46	13.18020
650734.33	4191356.46	12.82002	650784.33	4191356.46	11.67847
650834.33	4191356.46	10.84837	650884.33	4191356.46	10.20267
650934.33	4191356.46	9.33714	650984.33	4191356.46	8.44201
651034.33	4191356.46	7.55995	651084.33	4191356.46	6.77243
651134.33	4191356.46	6.10529	651184.33	4191356.46	5.54694
651234.33	4191356.46	5.07203	651284.33	4191356.46	4.64993
651334.33	4191356.46	4.26256	650334.33	4191406.46	4.73856
650384.33	4191406.46	5.33047	650434.33	4191406.46	6.05902
650484.33	4191406.46	6.95682	650534.33	4191406.46	7.97695
650584.33	4191406.46	8.91592	650634.33	4191406.46	9.48412
650684.33	4191406.46	9.51812	650734.33	4191406.46	9.03199
650784.33	4191406.46	8.32275	650834.33	4191406.46	7.88296
650884.33	4191406.46	7.51523	650934.33	4191406.46	7.02393
650984.33	4191406.46	6.48327	651034.33	4191406.46	5.93999
651084.33	4191406.46	5.41035	651134.33	4191406.46	4.93783
651184.33	4191406.46	4.52397	651234.33	4191406.46	4.16647
651284.33	4191406.46	3.85966	651334.33	4191406.46	3.58940
650334.33	4191456.46	4.32273	650384.33	4191456.46	4.84015
650434.33	4191456.46	5.45670	650484.33	4191456.46	6.13283
650534.33	4191456.46	6.75407	650584.33	4191456.46	7.17283
650634.33	4191456.46	7.30339	650684.33	4191456.46	7.13982
650734.33	4191456.46	6.72298	650784.33	4191456.46	6.28101
650834.33	4191456.46	6.02549	650884.33	4191456.46	5.79538
650934.33	4191456.46	5.49381	650984.33	4191456.46	5.14729
651034.33	4191456.46	4.79368	651084.33	4191456.46	4.43467
651134.33	4191456.46	4.09258	651184.33	4191456.46	3.78593
651234.33	4191456.46	3.51017	651284.33	4191456.46	3.26535
651334.33	4191456.46	3.05206	650334.33	4191506.46	3.97137

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	4.41443	650434.33	4191506.46	4.88765
650484.33	4191506.46	5.32215	650534.33	4191506.46	5.63497
650584.33	4191506.46	5.77680	650634.33	4191506.46	5.74437
650684.33	4191506.46	5.54404	650734.33	4191506.46	5.21948
650784.33	4191506.46	4.93888	650834.33	4191506.46	4.77928

650884.33	4191506.46	4.62533	650934.33	4191506.46	4.42682
650984.33	4191506.46	4.19620	651034.33	4191506.46	3.95280
651084.33	4191506.46	3.70524	651134.33	4191506.46	3.45524
651184.33	4191506.46	3.22189	651234.33	4191506.46	3.01114
651284.33	4191506.46	2.81755	651334.33	4191506.46	2.64160
650334.33	4191556.46	3.65807	650384.33	4191556.46	4.00346
650434.33	4191556.46	4.32059	650484.33	4191556.46	4.55934
650534.33	4191556.46	4.68902	650584.33	4191556.46	4.70781
650634.33	4191556.46	4.62136	650684.33	4191556.46	4.43109
650734.33	4191556.46	4.18711	650784.33	4191556.46	4.00484
650834.33	4191556.46	3.89915	650884.33	4191556.46	3.79091
650934.33	4191556.46	3.65258	650984.33	4191556.46	3.49314
651034.33	4191556.46	3.32025	651084.33	4191556.46	3.14261
651134.33	4191556.46	2.96064	651184.33	4191556.46	2.78006
651234.33	4191556.46	2.61398	651284.33	4191556.46	2.46266
651334.33	4191556.46	2.32120	650934.45	4191196.80	38.40447
650934.45	4191240.55	23.08269	651071.58	4191520.04	3.59627
650517.18	4191503.06	5.61109	650941.63	4190991.11	54.18882
650974.28	4190903.61	23.16189	650989.95	4190868.34	17.87825
651153.79	4190886.56	13.41937	651170.44	4190902.10	13.30563
651162.67	4190888.23	13.11544	651241.49	4191031.43	11.84149
650569.32	4190797.20	5.94344	650392.81	4190782.21	3.84822

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.73855	650384.33	4190556.46	2.96464
650434.33	4190556.46	3.24015	650484.33	4190556.46	3.58158
650534.33	4190556.46	4.01086	650584.33	4190556.46	4.54136
650634.33	4190556.46	5.14431	650684.33	4190556.46	5.72451
650734.33	4190556.46	6.11011	650784.33	4190556.46	6.21597
650834.33	4190556.46	6.23070	650884.33	4190556.46	6.45074
650934.33	4190556.46	6.79350	650984.33	4190556.46	7.00366
651034.33	4190556.46	6.96749	651084.33	4190556.46	6.69489
651134.33	4190556.46	6.35739	651184.33	4190556.46	6.05956
651234.33	4190556.46	5.76866	651284.33	4190556.46	5.44558
651334.33	4190556.46	5.09393	650334.33	4190606.46	3.05039
650384.33	4190606.46	3.31159	650434.33	4190606.46	3.62046
650484.33	4190606.46	4.00511	650534.33	4190606.46	4.49626
650584.33	4190606.46	5.13031	650634.33	4190606.46	5.90902
650684.33	4190606.46	6.73710	650734.33	4190606.46	7.37692
650784.33	4190606.46	7.60944	650834.33	4190606.46	7.65712
650884.33	4190606.46	7.98304	650934.33	4190606.46	8.44149
650984.33	4190606.46	8.64162	651034.33	4190606.46	8.44406

651084.33	4190606.46	8.00737	651134.33	4190606.46	7.57891
651184.33	4190606.46	7.16973	651234.33	4190606.46	6.71736
651284.33	4190606.46	6.22377	651334.33	4190606.46	5.72000
650334.33	4190656.46	3.40402	650384.33	4190656.46	3.73438
650434.33	4190656.46	4.10320	650484.33	4190656.46	4.54333
650534.33	4190656.46	5.10658	650584.33	4190656.46	5.85376
650634.33	4190656.46	6.84165	650684.33	4190656.46	8.01380
650734.33	4190656.46	9.07153	650784.33	4190656.46	9.56074
650834.33	4190656.46	9.67971	650884.33	4190656.46	10.18657
650934.33	4190656.46	10.80480	650984.33	4190656.46	10.90414
651034.33	4190656.46	10.42694	651084.33	4190656.46	9.79888
651134.33	4190656.46	9.19541	651184.33	4190656.46	8.53174
651234.33	4190656.46	7.80545	651284.33	4190656.46	7.06962
651334.33	4190656.46	6.36430	650334.33	4190706.46	3.77827
650384.33	4190706.46	4.21061	650434.33	4190706.46	4.69665
650484.33	4190706.46	5.24564	650534.33	4190706.46	5.90833
650584.33	4190706.46	6.78695	650634.33	4190706.46	8.01044
650684.33	4190706.46	9.64547	650734.33	4190706.46	11.38896
650784.33	4190706.46	12.41499	650834.33	4190706.46	12.69826
650884.33	4190706.46	13.53698	650934.33	4190706.46	14.35067
650984.33	4190706.46	14.12765	651034.33	4190706.46	13.23652
651084.33	4190706.46	12.29437	651134.33	4190706.46	11.25951

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	10.12289	651234.33	4190706.46	8.98551
651284.33	4190706.46	7.92184	651334.33	4190706.46	6.96980
650334.33	4190756.46	4.17656	650384.33	4190756.46	4.71676
650434.33	4190756.46	5.36066	650484.33	4190756.46	6.11563
650534.33	4190756.46	6.99107	650584.33	4190756.46	8.06630
650634.33	4190756.46	9.56239	650684.33	4190756.46	11.77454
650734.33	4190756.46	14.63243	650784.33	4190756.46	16.82266
650834.33	4190756.46	17.52211	650884.33	4190756.46	19.02565
650934.33	4190756.46	19.96054	650984.33	4190756.46	18.97382
651034.33	4190756.46	17.41297	651084.33	4190756.46	15.66017
651134.33	4190756.46	13.72545	651184.33	4190756.46	11.83285
651234.33	4190756.46	10.13420	651284.33	4190756.46	8.68655
651334.33	4190756.46	7.48644	650334.33	4190806.46	4.62914
650384.33	4190806.46	5.28005	650434.33	4190806.46	6.08472
650484.33	4190806.46	7.09016	650534.33	4190806.46	8.34208
650584.33	4190806.46	9.87215	650634.33	4190806.46	11.81322
650684.33	4190806.46	14.71116	650734.33	4190806.46	19.28048
650784.33	4190806.46	24.10497	650834.33	4190806.46	26.01055

650884.33	4190806.46	28.99783	650934.33	4190806.46	29.46239
650984.33	4190806.46	26.84512	651034.33	4190806.46	23.50688
651084.33	4190806.46	19.79193	651134.33	4190806.46	16.31617
651184.33	4190806.46	13.40835	651234.33	4190806.46	11.10281
651284.33	4190806.46	9.30486	651334.33	4190806.46	7.89824
650334.33	4190856.46	5.12479	650384.33	4190856.46	5.91973
650434.33	4190856.46	6.92039	650484.33	4190856.46	8.20470
650534.33	4190856.46	9.89176	650584.33	4190856.46	12.15429
650634.33	4190856.46	15.18528	650684.33	4190856.46	19.30687
650734.33	4190856.46	26.20712	650784.33	4190856.46	37.13442
650834.33	4190856.46	43.27502	650884.33	4190856.46	50.00667
650934.33	4190856.46	47.37040	650984.33	4190856.46	39.81162
651034.33	4190856.46	31.22676	651084.33	4190856.46	23.91908
651134.33	4190856.46	18.50129	651184.33	4190856.46	14.62362
651234.33	4190856.46	11.82189	651284.33	4190856.46	9.75151
651334.33	4190856.46	8.18495	650334.33	4190906.46	5.62969
650384.33	4190906.46	6.58354	650434.33	4190906.46	7.82000
650484.33	4190906.46	9.46348	650534.33	4190906.46	11.71236
650584.33	4190906.46	14.89671	650634.33	4190906.46	19.59488
650684.33	4190906.46	26.82737	650734.33	4190906.46	38.29922
650784.33	4190906.46	62.06408	650834.33	4190906.46	87.78681
650884.33	4190906.46	105.16413	650934.33	4190906.46	83.89100

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	56.69803	651034.33	4190906.46	38.09886
651084.33	4190906.46	26.87584	651134.33	4190906.46	19.90376
651184.33	4190906.46	15.33713	651234.33	4190906.46	12.19833
651284.33	4190906.46	9.95209	651334.33	4190906.46	8.28980
650334.33	4190956.46	6.13167	650384.33	4190956.46	7.24833
650434.33	4190956.46	8.72774	650484.33	4190956.46	10.75236
650534.33	4190956.46	13.63768	650584.33	4190956.46	17.96788
650634.33	4190956.46	24.92158	650684.33	4190956.46	37.13765
650734.33	4190956.46	61.21043	650784.33	4190956.46	113.91550
650834.33	4190956.46	250.79032	650884.33	4190956.46	289.05893
650934.33	4190956.46	129.26955	650984.33	4190956.46	67.22674
651034.33	4190956.46	40.98212	651084.33	4190956.46	27.70803
651134.33	4190956.46	20.08697	651184.33	4190956.46	15.30174
651234.33	4190956.46	12.09291	651284.33	4190956.46	9.83077
651334.33	4190956.46	8.17230	650334.33	4191006.46	6.47746
650384.33	4191006.46	7.70795	650434.33	4191006.46	9.35992
650484.33	4191006.46	11.66002	650534.33	4191006.46	15.01532
650584.33	4191006.46	20.22025	650634.33	4191006.46	29.00912

650684.33	4191006.46	45.80577	650734.33	4191006.46	84.73372
650784.33	4191006.46	203.39352	650834.33	4191006.46	57.27727
650884.33	4191006.46	281.02500	650934.33	4191006.46	114.98738
650984.33	4191006.46	60.34818	651034.33	4191006.46	37.38771
651084.33	4191006.46	25.63160	651134.33	4191006.46	18.78798
651184.33	4191006.46	14.43723	651234.33	4191006.46	11.48901
651284.33	4191006.46	9.39225	651334.33	4191006.46	7.84365
650334.33	4191056.46	6.48880	650384.33	4191056.46	7.69395
650434.33	4191056.46	9.29761	650484.33	4191056.46	11.50360
650534.33	4191056.46	14.66676	650584.33	4191056.46	19.44660
650634.33	4191056.46	27.16682	650684.33	4191056.46	40.71285
650734.33	4191056.46	67.18646	650784.33	4191056.46	117.18087
650834.33	4191056.46	97.54602	650884.33	4191056.46	71.78492
650934.33	4191056.46	52.37644	650984.33	4191056.46	37.95427
651034.33	4191056.46	27.58345	651084.33	4191056.46	20.62372
651134.33	4191056.46	15.93063	651184.33	4191056.46	12.66969
651234.33	4191056.46	10.32676	651284.33	4191056.46	8.59073
651334.33	4191056.46	7.26933	650334.33	4191106.46	6.21831
650384.33	4191106.46	7.31598	650434.33	4191106.46	8.75310
650484.33	4191106.46	10.68245	650534.33	4191106.46	13.34229
650584.33	4191106.46	17.10962	650634.33	4191106.46	22.63717
650684.33	4191106.46	31.28436	650734.33	4191106.46	43.63414

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	47.84576	650834.33	4191106.46	39.44363
650884.33	4191106.46	33.21357	650934.33	4191106.46	26.75114
650984.33	4191106.46	21.71509	651034.33	4191106.46	17.96397
651084.33	4191106.46	14.88729	651134.33	4191106.46	12.35891
651184.33	4191106.46	10.33513	651234.33	4191106.46	8.73447
651284.33	4191106.46	7.46591	651334.33	4191106.46	6.45135
650334.33	4191156.46	5.86903	650384.33	4191156.46	6.83770
650434.33	4191156.46	8.06286	650484.33	4191156.46	9.62977
650534.33	4191156.46	11.66706	650584.33	4191156.46	14.41708
650634.33	4191156.46	18.28756	650684.33	4191156.46	23.09051
650734.33	4191156.46	26.11128	650784.33	4191156.46	24.39449
650834.33	4191156.46	21.39224	650884.33	4191156.46	19.22707
650934.33	4191156.46	16.61240	650984.33	4191156.46	14.15138
651034.33	4191156.46	12.14333	651084.33	4191156.46	10.57511
651134.33	4191156.46	9.27449	651184.33	4191156.46	8.13863
651234.33	4191156.46	7.14339	651284.33	4191156.46	6.28535
651334.33	4191156.46	5.55529	650334.33	4191206.46	5.46738
650384.33	4191206.46	6.27307	650434.33	4191206.46	7.25515

650484.33	4191206.46	8.47856	650534.33	4191206.46	10.06359
650584.33	4191206.46	12.14123	650634.33	4191206.46	14.51839
650684.33	4191206.46	16.26678	650734.33	4191206.46	16.34997
650784.33	4191206.46	14.86637	650834.33	4191206.46	13.58138
650884.33	4191206.46	12.61833	650934.33	4191206.46	11.35205
650984.33	4191206.46	10.08342	651034.33	4191206.46	8.88755
651084.33	4191206.46	7.88005	651134.33	4191206.46	7.05505
651184.33	4191206.46	6.36696	651234.33	4191206.46	5.76384
651284.33	4191206.46	5.21710	651334.33	4191206.46	4.72019
650334.33	4191256.46	5.01232	650384.33	4191256.46	5.66885
650434.33	4191256.46	6.46968	650484.33	4191256.46	7.47762
650534.33	4191256.46	8.72878	650584.33	4191256.46	10.08888
650634.33	4191256.46	11.15862	650684.33	4191256.46	11.51990
650734.33	4191256.46	11.05988	650784.33	4191256.46	10.11443
650834.33	4191256.46	9.47869	650884.33	4191256.46	8.97017
650934.33	4191256.46	8.28677	650984.33	4191256.46	7.56226
651034.33	4191256.46	6.83907	651084.33	4191256.46	6.16835
651134.33	4191256.46	5.58789	651184.33	4191256.46	5.09308
651234.33	4191256.46	4.67401	651284.33	4191256.46	4.30921
651334.33	4191256.46	3.97838	650334.33	4191306.46	4.56454
650384.33	4191306.46	5.12345	650434.33	4191306.46	5.80921
650484.33	4191306.46	6.62472	650534.33	4191306.46	7.48142

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	8.18054	650634.33	4191306.46	8.52496
650684.33	4191306.46	8.44604	650734.33	4191306.46	7.97959
650784.33	4191306.46	7.39361	650834.33	4191306.46	7.04313
650884.33	4191306.46	6.74114	650934.33	4191306.46	6.34062
650984.33	4191306.46	5.89042	651034.33	4191306.46	5.43642
651084.33	4191306.46	4.98332	651134.33	4191306.46	4.56932
651184.33	4191306.46	4.20263	651234.33	4191306.46	3.87965
651284.33	4191306.46	3.60040	651334.33	4191306.46	3.35763
650334.33	4191356.46	4.17522	650384.33	4191356.46	4.66525
650434.33	4191356.46	5.22846	650484.33	4191356.46	5.80618
650534.33	4191356.46	6.28883	650584.33	4191356.46	6.57178
650634.33	4191356.46	6.61624	650684.33	4191356.46	6.42811
650734.33	4191356.46	6.04855	650784.33	4191356.46	5.68097
650834.33	4191356.46	5.47094	650884.33	4191356.46	5.27635
650934.33	4191356.46	5.02319	650984.33	4191356.46	4.73001
651034.33	4191356.46	4.42710	651084.33	4191356.46	4.11883
651134.33	4191356.46	3.81691	651184.33	4191356.46	3.54312
651234.33	4191356.46	3.29577	651284.33	4191356.46	3.07210

651334.33	4191356.46	2.87451	650334.33	4191406.46	3.84364
650384.33	4191406.46	4.25017	650434.33	4191406.46	4.66010
650484.33	4191406.46	5.00828	650534.33	4191406.46	5.23401
650584.33	4191406.46	5.31359	650634.33	4191406.46	5.25191
650684.33	4191406.46	5.05270	650734.33	4191406.46	4.76236
650784.33	4191406.46	4.52691	650834.33	4191406.46	4.39243
650884.33	4191406.46	4.25941	650934.33	4191406.46	4.08863
650984.33	4191406.46	3.89063	651034.33	4191406.46	3.67891
651084.33	4191406.46	3.46324	651134.33	4191406.46	3.24313
651184.33	4191406.46	3.03250	651234.33	4191406.46	2.84184
651284.33	4191406.46	2.66665	651334.33	4191406.46	2.50477
650334.33	4191456.46	3.53552	650384.33	4191456.46	3.83807
650434.33	4191456.46	4.09829	650484.33	4191456.46	4.27851
650534.33	4191456.46	4.36302	650584.33	4191456.46	4.35617
650634.33	4191456.46	4.26110	650684.33	4191456.46	4.07950
650734.33	4191456.46	3.86294	650784.33	4191456.46	3.70852
650834.33	4191456.46	3.61764	650884.33	4191456.46	3.52257
650934.33	4191456.46	3.40128	650984.33	4191456.46	3.26212
651034.33	4191456.46	3.11054	651084.33	4191456.46	2.95331
651134.33	4191456.46	2.79251	651184.33	4191456.46	2.62998
651234.33	4191456.46	2.47757	651284.33	4191456.46	2.33938
651334.33	4191456.46	2.21052	650334.33	4191506.46	3.22636

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.42652	650434.33	4191506.46	3.57178
650484.33	4191506.46	3.65116	650534.33	4191506.46	3.66781
650584.33	4191506.46	3.62643	650634.33	4191506.46	3.52434
650684.33	4191506.46	3.36825	650734.33	4191506.46	3.20857
650784.33	4191506.46	3.10481	650834.33	4191506.46	3.04055
650884.33	4191506.46	2.97021	650934.33	4191506.46	2.88063
650984.33	4191506.46	2.77874	651034.33	4191506.46	2.66814
651084.33	4191506.46	2.55036	651134.33	4191506.46	2.42980
651184.33	4191506.46	2.30593	651234.33	4191506.46	2.18283
651284.33	4191506.46	2.06926	651334.33	4191506.46	1.96585
650334.33	4191556.46	2.91521	650384.33	4191556.46	3.03373
650434.33	4191556.46	3.10504	650484.33	4191556.46	3.13120
650534.33	4191556.46	3.11719	650584.33	4191556.46	3.06247
650634.33	4191556.46	2.96381	650684.33	4191556.46	2.83390
650734.33	4191556.46	2.71666	650784.33	4191556.46	2.64525
650834.33	4191556.46	2.59806	650884.33	4191556.46	2.54450
650934.33	4191556.46	2.47636	650984.33	4191556.46	2.39894
651034.33	4191556.46	2.31624	651084.33	4191556.46	2.22701

651134.33	4191556.46	2.13383	651184.33	4191556.46	2.03876
651234.33	4191556.46	1.94111	651284.33	4191556.46	1.84598
651334.33	4191556.46	1.75925	650934.45	4191196.80	12.14391
650934.45	4191240.55	9.10398	651071.58	4191520.04	2.48390
650517.18	4191503.06	3.71018	650941.63	4190991.11	114.65649
650974.28	4190903.61	60.44504	650989.95	4190868.34	42.45269
651153.79	4190886.56	17.57851	651170.44	4190902.10	16.38639
651162.67	4190888.23	16.83756	651241.49	4191031.43	10.66626
650569.32	4190797.20	9.04011	650392.81	4190782.21	5.10964

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.07016	650384.33	4190556.46	2.22681
650434.33	4190556.46	2.41251	650484.33	4190556.46	2.63548
650534.33	4190556.46	2.90243	650584.33	4190556.46	3.20980
650634.33	4190556.46	3.53791	650684.33	4190556.46	3.84328
650734.33	4190556.46	4.05869	650784.33	4190556.46	4.14395
650834.33	4190556.46	4.13167	650884.33	4190556.46	4.13640
650934.33	4190556.46	4.26023	650984.33	4190556.46	4.44580
651034.33	4190556.46	4.58672	651084.33	4190556.46	4.64453
651134.33	4190556.46	4.58995	651184.33	4190556.46	4.43041
651234.33	4190556.46	4.23755	651284.33	4190556.46	4.06960
651334.33	4190556.46	3.92584	650334.33	4190606.46	2.25628
650384.33	4190606.46	2.42723	650434.33	4190606.46	2.63175
650484.33	4190606.46	2.87896	650534.33	4190606.46	3.18130
650584.33	4190606.46	3.54461	650634.33	4190606.46	3.95369
650684.33	4190606.46	4.36315	650734.33	4190606.46	4.68470
650784.33	4190606.46	4.83646	650834.33	4190606.46	4.84145
650884.33	4190606.46	4.85479	650934.33	4190606.46	5.02163
650984.33	4190606.46	5.25577	651034.33	4190606.46	5.41498
651084.33	4190606.46	5.44277	651134.33	4190606.46	5.30957
651184.33	4190606.46	5.07738	651234.33	4190606.46	4.85045
651284.33	4190606.46	4.65774	651334.33	4190606.46	4.46861
650334.33	4190656.46	2.48088	650384.33	4190656.46	2.66911
650434.33	4190656.46	2.89446	650484.33	4190656.46	3.16955
650534.33	4190656.46	3.51001	650584.33	4190656.46	3.93400
650634.33	4190656.46	4.44001	650684.33	4190656.46	4.98435
650734.33	4190656.46	5.46072	650784.33	4190656.46	5.72502
650834.33	4190656.46	5.76542	650884.33	4190656.46	5.79423
650934.33	4190656.46	6.02549	650984.33	4190656.46	6.32511
651034.33	4190656.46	6.49456	651084.33	4190656.46	6.45059
651134.33	4190656.46	6.20343	651184.33	4190656.46	5.89933
651234.33	4190656.46	5.63292	651284.33	4190656.46	5.37942

651334.33	4190656.46	5.10033	650334.33	4190706.46	2.74597
650384.33	4190706.46	2.96539	650434.33	4190706.46	3.21771
650484.33	4190706.46	3.52455	650534.33	4190706.46	3.90854
650584.33	4190706.46	4.39749	650634.33	4190706.46	5.01499
650684.33	4190706.46	5.73313	650734.33	4190706.46	6.43290
650784.33	4190706.46	6.88908	650834.33	4190706.46	7.00191
650884.33	4190706.46	7.05937	650934.33	4190706.46	7.39107
650984.33	4190706.46	7.77859	651034.33	4190706.46	7.92870
651084.33	4190706.46	7.74294	651134.33	4190706.46	7.35501

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	6.97624	651234.33	4190706.46	6.62390
651284.33	4190706.46	6.23951	651334.33	4190706.46	5.81580
650334.33	4190756.46	3.03915	650384.33	4190756.46	3.31638
650434.33	4190756.46	3.62058	650484.33	4190756.46	3.97181
650534.33	4190756.46	4.40686	650584.33	4190756.46	4.96895
650634.33	4190756.46	5.70884	650684.33	4190756.46	6.64524
650734.33	4190756.46	7.66497	650784.33	4190756.46	8.44973
650834.33	4190756.46	8.71352	650884.33	4190756.46	8.82656
650934.33	4190756.46	9.32262	650984.33	4190756.46	9.82240
651034.33	4190756.46	9.87276	651084.33	4190756.46	9.45070
651134.33	4190756.46	8.90510	651184.33	4190756.46	8.39339
651234.33	4190756.46	7.84109	651284.33	4190756.46	7.23008
651334.33	4190756.46	6.60046	650334.33	4190806.46	3.34531
650384.33	4190806.46	3.70135	650434.33	4190806.46	4.09874
650484.33	4190806.46	4.54045	650534.33	4190806.46	5.05361
650584.33	4190806.46	5.70380	650634.33	4190806.46	6.57968
650684.33	4190806.46	7.77423	650734.33	4190806.46	9.24713
650784.33	4190806.46	10.59573	650834.33	4190806.46	11.18490
650884.33	4190806.46	11.41334	650934.33	4190806.46	12.19422
650984.33	4190806.46	12.81011	651034.33	4190806.46	12.58064
651084.33	4190806.46	11.82336	651134.33	4190806.46	11.04131
651184.33	4190806.46	10.20361	651234.33	4190806.46	9.27234
651284.33	4190806.46	8.31975	651334.33	4190806.46	7.40948
650334.33	4190856.46	3.66900	650384.33	4190856.46	4.10571
650434.33	4190856.46	4.61947	650484.33	4190856.46	5.21510
650534.33	4190856.46	5.89503	650584.33	4190856.46	6.69458
650634.33	4190856.46	7.73762	650684.33	4190856.46	9.22397
650734.33	4190856.46	11.31059	650784.33	4190856.46	13.62845
650834.33	4190856.46	14.95002	650884.33	4190856.46	15.44174
650934.33	4190856.46	16.75043	650984.33	4190856.46	17.37634
651034.33	4190856.46	16.53806	651084.33	4190856.46	15.28292

651134.33	4190856.46	13.91759	651184.33	4190856.46	12.38864
651234.33	4190856.46	10.84568	651284.33	4190856.46	9.41601
651334.33	4190856.46	8.16047	650334.33	4190906.46	4.03466
650384.33	4190906.46	4.55200	650434.33	4190906.46	5.18077
650484.33	4190906.46	5.95126	650534.33	4190906.46	6.89182
650584.33	4190906.46	8.01871	650634.33	4190906.46	9.38004
650684.33	4190906.46	11.23005	650734.33	4190906.46	14.07728
650784.33	4190906.46	18.03722	650834.33	4190906.46	21.09986
650884.33	4190906.46	22.27769	650934.33	4190906.46	24.63460

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	24.76447	651034.33	4190906.46	22.75274
651084.33	4190906.46	20.29748	651134.33	4190906.46	17.50971
651184.33	4190906.46	14.77042	651234.33	4190906.46	12.36466
651284.33	4190906.46	10.37926	651334.33	4190906.46	8.78585
650334.33	4190956.46	4.43788	650384.33	4190956.46	5.05929
650434.33	4190956.46	5.82451	650484.33	4190956.46	6.78281
650534.33	4190956.46	8.00645	650584.33	4190956.46	9.59395
650634.33	4190956.46	11.64822	650684.33	4190956.46	14.28223
650734.33	4190956.46	18.10374	650784.33	4190956.46	24.62711
650834.33	4190956.46	32.10455	650884.33	4190956.46	35.44772
650934.33	4190956.46	39.98173	650984.33	4190956.46	37.85924
651034.33	4190956.46	32.80247	651084.33	4190956.46	26.85062
651134.33	4190956.46	21.32706	651184.33	4190956.46	16.91758
651234.33	4190956.46	13.60068	651284.33	4190956.46	11.12829
651334.33	4190956.46	9.26292	650334.33	4191006.46	4.84760
650384.33	4191006.46	5.58760	650434.33	4191006.46	6.52191
650484.33	4191006.46	7.72429	650534.33	4191006.46	9.30594
650584.33	4191006.46	11.44132	650634.33	4191006.46	14.41697
650684.33	4191006.46	18.69488	650734.33	4191006.46	24.89088
650784.33	4191006.46	35.10271	650834.33	4191006.46	54.12809
650884.33	4191006.46	66.60785	650934.33	4191006.46	75.24256
650984.33	4191006.46	63.26149	651034.33	4191006.46	46.75990
651084.33	4191006.46	33.37705	651134.33	4191006.46	24.38045
651184.33	4191006.46	18.45600	651234.33	4191006.46	14.43606
651284.33	4191006.46	11.60519	651334.33	4191006.46	9.54331
650334.33	4191056.46	5.26602	650384.33	4191056.46	6.12657
650434.33	4191056.46	7.23468	650484.33	4191056.46	8.69870
650534.33	4191056.46	10.69428	650584.33	4191056.46	13.52070
650634.33	4191056.46	17.71793	650684.33	4191056.46	24.32655
650734.33	4191056.46	35.49974	650784.33	4191056.46	55.83496
650834.33	4191056.46	101.17506	650884.33	4191056.46	173.99762

650934.33	4191056.46	176.29346	650984.33	4191056.46	101.09216
651034.33	4191056.46	58.34117	651084.33	4191056.46	37.30909
651134.33	4191056.46	25.88977	651184.33	4191056.46	19.06583
651234.33	4191056.46	14.67336	651284.33	4191056.46	11.67889
651334.33	4191056.46	9.54336	650334.33	4191106.46	5.61727
650384.33	4191106.46	6.58642	650434.33	4191106.46	7.85386
650484.33	4191106.46	9.56156	650534.33	4191106.46	11.94990
650584.33	4191106.46	15.45353	650634.33	4191106.46	20.92810
650684.33	4191106.46	30.26108	650734.33	4191106.46	48.31889

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	90.59327	650834.33	4191106.46	206.41264
650884.33	4191106.46	309.91652	650934.33	4191106.46	297.42221
650984.33	4191106.46	111.96689	651034.33	4191106.46	58.61557
651084.33	4191106.46	36.42085	651134.33	4191106.46	25.04345
651184.33	4191106.46	18.40257	651234.33	4191106.46	14.16983
651284.33	4191106.46	11.29499	651334.33	4191106.46	9.24645
650334.33	4191156.46	5.75222	650384.33	4191156.46	6.74854
650434.33	4191156.46	8.05131	650484.33	4191156.46	9.80561
650534.33	4191156.46	12.25593	650584.33	4191156.46	15.84130
650634.33	4191156.46	21.41535	650684.33	4191156.46	30.81924
650734.33	4191156.46	48.58815	650784.33	4191156.46	87.86838
650834.33	4191156.46	187.25722	650884.33	4191156.46	145.29317
650934.33	4191156.46	103.58379	650984.33	4191156.46	67.60542
651034.33	4191156.46	43.53133	651084.33	4191156.46	29.75475
651134.33	4191156.46	21.56382	651184.33	4191156.46	16.37139
651234.33	4191156.46	12.88583	651284.33	4191156.46	10.43359
651334.33	4191156.46	8.64132	650334.33	4191206.46	5.61779
650384.33	4191206.46	6.55064	650434.33	4191206.46	7.75612
650484.33	4191206.46	9.35483	650534.33	4191206.46	11.54114
650584.33	4191206.46	14.63957	650634.33	4191206.46	19.20713
650684.33	4191206.46	26.23716	650734.33	4191206.46	37.78622
650784.33	4191206.46	56.98344	650834.33	4191206.46	65.79895
650884.33	4191206.46	52.18639	650934.33	4191206.46	41.49396
650984.33	4191206.46	32.21593	651034.33	4191206.46	25.63494
651084.33	4191206.46	20.43825	651134.33	4191206.46	16.33953
651184.33	4191206.46	13.21852	651234.33	4191206.46	10.86412
651284.33	4191206.46	9.07292	651334.33	4191206.46	7.68906
650334.33	4191256.46	5.35051	650384.33	4191256.46	6.19832
650434.33	4191256.46	7.27461	650484.33	4191256.46	8.66292
650534.33	4191256.46	10.48163	650584.33	4191256.46	12.90347
650634.33	4191256.46	16.22520	650684.33	4191256.46	21.03475

650734.33	4191256.46	27.64807	650784.33	4191256.46	32.55731
650834.33	4191256.46	30.10017	650884.33	4191256.46	26.11635
650934.33	4191256.46	22.72785	650984.33	4191256.46	19.11468
651034.33	4191256.46	15.99646	651084.33	4191256.46	13.62879
651134.33	4191256.46	11.73083	651184.33	4191256.46	10.10751
651234.33	4191256.46	8.71468	651284.33	4191256.46	7.54226
651334.33	4191256.46	6.56818	650334.33	4191306.46	5.05504
650384.33	4191306.46	5.79693	650434.33	4191306.46	6.70647
650484.33	4191306.46	7.83063	650534.33	4191306.46	9.24241

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	11.08014	650634.33	4191306.46	13.55737
650684.33	4191306.46	16.61705	650734.33	4191306.46	19.12279
650784.33	4191306.46	19.35762	650834.33	4191306.46	17.37931
650884.33	4191306.46	15.83372	650934.33	4191306.46	14.43863
650984.33	4191306.46	12.76856	651034.33	4191306.46	11.14760
651084.33	4191306.46	9.73345	651134.33	4191306.46	8.59319
651184.33	4191306.46	7.66341	651234.33	4191306.46	6.86341
651284.33	4191306.46	6.14755	651334.33	4191306.46	5.50497
650334.33	4191356.46	4.71176	650384.33	4191356.46	5.32958
650434.33	4191356.46	6.06705	650484.33	4191356.46	6.96700
650534.33	4191356.46	8.10495	650584.33	4191356.46	9.55831
650634.33	4191356.46	11.23536	650684.33	4191356.46	12.65946
650734.33	4191356.46	13.19802	650784.33	4191356.46	12.62583
650834.33	4191356.46	11.46064	650884.33	4191356.46	10.73240
650934.33	4191356.46	10.04276	650984.33	4191356.46	9.15687
651034.33	4191356.46	8.26289	651084.33	4191356.46	7.39268
651134.33	4191356.46	6.62964	651184.33	4191356.46	5.98547
651234.33	4191356.46	5.44634	651284.33	4191356.46	4.98420
651334.33	4191356.46	4.56998	650334.33	4191406.46	4.33594
650384.33	4191406.46	4.84812	650434.33	4191406.46	5.46381
650484.33	4191406.46	6.22477	650534.33	4191406.46	7.15508
650584.33	4191406.46	8.18051	650634.33	4191406.46	9.06746
650684.33	4191406.46	9.53523	650734.33	4191406.46	9.45947
650784.33	4191406.46	8.88911	650834.33	4191406.46	8.20855
650884.33	4191406.46	7.81646	650934.33	4191406.46	7.42625
650984.33	4191406.46	6.91629	651034.33	4191406.46	6.37532
651084.33	4191406.46	5.83111	651134.33	4191406.46	5.31081
651184.33	4191406.46	4.85054	651234.33	4191406.46	4.44799
651284.33	4191406.46	4.10143	651334.33	4191406.46	3.80318
650334.33	4191456.46	3.97425	650384.33	4191456.46	4.41838
650434.33	4191456.46	4.95582	650484.33	4191456.46	5.58974

650534.33	4191456.46	6.26629	650584.33	4191456.46	6.85819
650634.33	4191456.46	7.22296	650684.33	4191456.46	7.29378
650734.33	4191456.46	7.07344	650784.33	4191456.46	6.62507
650834.33	4191456.46	6.21644	650884.33	4191456.46	5.98386
650934.33	4191456.46	5.74060	650984.33	4191456.46	5.42657
651034.33	4191456.46	5.07671	651084.33	4191456.46	4.72219
651134.33	4191456.46	4.36377	651184.33	4191456.46	4.02846
651234.33	4191456.46	3.72843	651284.33	4191456.46	3.45863
651334.33	4191456.46	3.22026	650334.33	4191506.46	3.66021

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	4.05556	650434.33	4191506.46	4.50834
650484.33	4191506.46	4.98039	650534.33	4191506.46	5.39678
650584.33	4191506.46	5.67763	650634.33	4191506.46	5.78396
650684.33	4191506.46	5.71758	650734.33	4191506.46	5.48548
650784.33	4191506.46	5.15351	650834.33	4191506.46	4.89995
650884.33	4191506.46	4.75149	650934.33	4191506.46	4.58899
650984.33	4191506.46	4.38273	651034.33	4191506.46	4.14791
651084.33	4191506.46	3.90377	651134.33	4191506.46	3.65496
651184.33	4191506.46	3.40668	651234.33	4191506.46	3.17812
651284.33	4191506.46	2.97114	651334.33	4191506.46	2.78085
650334.33	4191556.46	3.39151	650384.33	4191556.46	3.72704
650434.33	4191556.46	4.07081	650484.33	4191556.46	4.37602
650534.33	4191556.46	4.59441	650584.33	4191556.46	4.70137
650634.33	4191556.46	4.69893	650684.33	4191556.46	4.59127
650734.33	4191556.46	4.38321	650784.33	4191556.46	4.14264
650834.33	4191556.46	3.98003	650884.33	4191556.46	3.87966
650934.33	4191556.46	3.76546	650984.33	4191556.46	3.62211
651034.33	4191556.46	3.45935	651084.33	4191556.46	3.28493
651134.33	4191556.46	3.10664	651184.33	4191556.46	2.92393
651234.33	4191556.46	2.74546	651284.33	4191556.46	2.58273
651334.33	4191556.46	2.43364	650934.45	4191196.80	47.77935
650934.45	4191240.55	26.96875	651071.58	4191520.04	3.77579
650517.18	4191503.06	5.31748	650941.63	4190991.11	60.32404
650974.28	4190903.61	24.44986	650989.95	4190868.34	18.75082
651153.79	4190886.56	15.15434	651170.44	4190902.10	15.26942
651162.67	4190888.23	14.86081	651241.49	4191031.43	14.15682
650569.32	4190797.20	5.34312	650392.81	4190782.21	3.56864

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.53085	650384.33	4190556.46	2.72369
650434.33	4190556.46	2.95359	650484.33	4190556.46	3.23469
650534.33	4190556.46	3.58335	650584.33	4190556.46	4.01993
650634.33	4190556.46	4.54719	650684.33	4190556.46	5.12292
650734.33	4190556.46	5.63773	650784.33	4190556.46	5.93264
650834.33	4190556.46	5.98369	650884.33	4190556.46	6.01689
650934.33	4190556.46	6.26471	650984.33	4190556.46	6.57995
651034.33	4190556.46	6.74897	651084.33	4190556.46	6.68322
651134.33	4190556.46	6.40954	651184.33	4190556.46	6.09146
651234.33	4190556.46	5.81349	651284.33	4190556.46	5.54045
651334.33	4190556.46	5.23698	650334.33	4190606.46	2.80295
650384.33	4190606.46	3.03163	650434.33	4190606.46	3.29151
650484.33	4190606.46	3.60550	650534.33	4190606.46	3.99900
650584.33	4190606.46	4.50174	650634.33	4190606.46	5.14293
650684.33	4190606.46	5.90112	650734.33	4190606.46	6.65609
650784.33	4190606.46	7.16463	650834.33	4190606.46	7.29939
650884.33	4190606.46	7.36516	650934.33	4190606.46	7.72336
650984.33	4190606.46	8.13151	651034.33	4190606.46	8.27047
651084.33	4190606.46	8.04548	651134.33	4190606.46	7.62755
651184.33	4190606.46	7.23003	651234.33	4190606.46	6.84916
651284.33	4190606.46	6.42768	651334.33	4190606.46	5.96802
650334.33	4190656.46	3.09960	650384.33	4190656.46	3.39149
650434.33	4190656.46	3.71104	650484.33	4190656.46	4.07534
650534.33	4190656.46	4.52240	650584.33	4190656.46	5.10054
650634.33	4190656.46	5.86625	650684.33	4190656.46	6.85143
650734.33	4190656.46	7.94991	650784.33	4190656.46	8.82444
650834.33	4190656.46	9.13469	650884.33	4190656.46	9.26438
650934.33	4190656.46	9.80515	650984.33	4190656.46	10.32938
651034.33	4190656.46	10.34237	651084.33	4190656.46	9.86109
651134.33	4190656.46	9.27928	651184.33	4190656.46	8.72330
651234.33	4190656.46	8.11126	651284.33	4190656.46	7.44191
651334.33	4190656.46	6.76256	650334.33	4190706.46	3.40799
650384.33	4190706.46	3.78054	650434.33	4190706.46	4.20047
650484.33	4190706.46	4.66856	650534.33	4190706.46	5.20589
650584.33	4190706.46	5.87779	650634.33	4190706.46	6.78349
650684.33	4190706.46	8.03359	650734.33	4190706.46	9.61613
650784.33	4190706.46	11.11900	650834.33	4190706.46	11.81051
650884.33	4190706.46	12.07514	650934.33	4190706.46	12.93633
650984.33	4190706.46	13.56933	651034.33	4190706.46	13.24974
651084.33	4190706.46	12.41208	651134.33	4190706.46	11.55444

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*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	10.61303	651234.33	4190706.46	9.57986
651284.33	4190706.46	8.54282	651334.33	4190706.46	7.56719
650334.33	4190756.46	3.73808	650384.33	4190756.46	4.19033
650434.33	4190756.46	4.72730	650484.33	4190756.46	5.35791
650534.33	4190756.46	6.08491	650584.33	4190756.46	6.93282
650634.33	4190756.46	8.01939	650684.33	4190756.46	9.56941
650734.33	4190756.46	11.79750	650784.33	4190756.46	14.37996
650834.33	4190756.46	15.93821	650884.33	4190756.46	16.51788
650934.33	4190756.46	17.98125	650984.33	4190756.46	18.57053
651034.33	4190756.46	17.55518	651084.33	4190756.46	16.14987
651134.33	4190756.46	14.58504	651184.33	4190756.46	12.85974
651234.33	4190756.46	11.16227	651284.33	4190756.46	9.62333
651334.33	4190756.46	8.29674	650334.33	4190806.46	4.11349
650384.33	4190806.46	4.64920	650434.33	4190806.46	5.30209
650484.33	4190806.46	6.10742	650534.33	4190806.46	7.10345
650584.33	4190806.46	8.31758	650634.33	4190806.46	9.78580
650684.33	4190806.46	11.73640	650734.33	4190806.46	14.75194
650784.33	4190806.46	19.14712	650834.33	4190806.46	22.79154
650884.33	4190806.46	24.21939	650934.33	4190806.46	26.89388
650984.33	4190806.46	26.78198	651034.33	4190806.46	24.40534
651084.33	4190806.46	21.50479	651134.33	4190806.46	18.28364
651184.33	4190806.46	15.23467	651234.33	4190806.46	12.63947
651284.33	4190806.46	10.54729	651334.33	4190806.46	8.89376
650334.33	4190856.46	4.51956	650384.33	4190856.46	5.16459
650434.33	4190856.46	5.96224	650484.33	4190856.46	6.96506
650534.33	4190856.46	8.25151	650584.33	4190856.46	9.93651
650634.33	4190856.46	12.16207	650684.33	4190856.46	15.06403
650734.33	4190856.46	19.17196	650784.33	4190856.46	26.31883
650834.33	4190856.46	35.31713	650884.33	4190856.46	39.55457
650934.33	4190856.46	44.74272	650984.33	4190856.46	41.67341
651034.33	4190856.46	35.36434	651084.33	4190856.46	28.24463
651134.33	4190856.46	22.02834	651184.33	4190856.46	17.28115
651234.33	4190856.46	13.80363	651284.33	4190856.46	11.24884
651334.33	4190856.46	9.33745	650334.33	4190906.46	4.93093
650384.33	4190906.46	5.69447	650434.33	4190906.46	6.66301
650484.33	4190906.46	7.91726	650534.33	4190906.46	9.58045
650584.33	4190906.46	11.84756	650634.33	4190906.46	15.04210
650684.33	4190906.46	19.71892	650734.33	4190906.46	26.72303
650784.33	4190906.46	38.07503	650834.33	4190906.46	60.93877
650884.33	4190906.46	77.96586	650934.33	4190906.46	87.52249

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*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	70.41508	651034.33	4190906.46	49.57993
651084.33	4190906.46	34.43960	651134.33	4190906.46	24.83205
651184.33	4190906.46	18.66744	651234.33	4190906.46	14.53963
651284.33	4190906.46	11.65636	651334.33	4190906.46	9.56778
650334.33	4190956.46	5.34642	650384.33	4190956.46	6.23152
650434.33	4190956.46	7.37523	650484.33	4190956.46	8.89295
650534.33	4190956.46	10.97362	650584.33	4190956.46	13.94397
650634.33	4190956.46	18.40692	650684.33	4190956.46	25.56569
650734.33	4190956.46	38.03952	650784.33	4190956.46	61.93974
650834.33	4190956.46	115.30244	650884.33	4190956.46	225.46687
650934.33	4190956.46	211.25364	650984.33	4190956.46	107.14474
651034.33	4190956.46	59.56020	651084.33	4190956.46	37.58089
651134.33	4190956.46	25.92473	651184.33	4190956.46	19.03791
651234.33	4190956.46	14.63162	651284.33	4190956.46	11.63780
651334.33	4190956.46	9.50682	650334.33	4191006.46	5.66571
650384.33	4191006.46	6.64883	650434.33	4191006.46	7.93661
650484.33	4191006.46	9.67533	650534.33	4191006.46	12.11370
650584.33	4191006.46	15.70417	650634.33	4191006.46	21.34511
650684.33	4191006.46	31.04462	650734.33	4191006.46	50.10058
650784.33	4191006.46	96.22807	650834.33	4191006.46	234.97824
650884.33	4191006.46	71.97626	650934.33	4191006.46	274.48342
650984.33	4191006.46	106.91530	651034.33	4191006.46	56.76871
651084.33	4191006.46	35.54992	651134.33	4191006.46	24.56520
651184.33	4191006.46	18.11200	651234.33	4191006.46	13.98008
651284.33	4191006.46	11.16419	651334.33	4191006.46	9.15241
650334.33	4191056.46	5.74498	650384.33	4191056.46	6.73387
650434.33	4191056.46	8.02417	650484.33	4191056.46	9.75691
650534.33	4191056.46	12.16822	650584.33	4191056.46	15.67840
650634.33	4191056.46	21.09367	650684.33	4191056.46	30.11230
650734.33	4191056.46	46.72718	650784.33	4191056.46	81.70221
650834.33	4191056.46	153.46611	650884.33	4191056.46	115.30663
650934.33	4191056.46	82.07943	650984.33	4191056.46	57.66190
651034.33	4191056.46	39.48611	651084.33	4191056.46	27.88152
651134.33	4191056.46	20.57733	651184.33	4191056.46	15.79826
651234.33	4191056.46	12.52732	651284.33	4191056.46	10.19619
651334.33	4191056.46	8.47686	650334.33	4191106.46	5.56894
650384.33	4191106.46	6.48510	650434.33	4191106.46	7.66614
650484.33	4191106.46	9.22676	650534.33	4191106.46	11.34834
650584.33	4191106.46	14.32457	650634.33	4191106.46	18.63905
650684.33	4191106.46	25.14104	650734.33	4191106.46	35.62581

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	51.21878	650834.33	4191106.46	54.84738
650884.33	4191106.46	44.46320	650934.33	4191106.46	36.19794
650984.33	4191106.46	28.59058	651034.33	4191106.46	23.08503
651084.33	4191106.46	18.80367	651134.33	4191106.46	15.31729
651184.33	4191106.46	12.56068	651234.33	4191106.46	10.42317
651284.33	4191106.46	8.76625	651334.33	4191106.46	7.46914
650334.33	4191156.46	5.29374	650384.33	4191156.46	6.12291
650434.33	4191156.46	7.16923	650484.33	4191156.46	8.50744
650534.33	4191156.46	10.24127	650584.33	4191156.46	12.52519
650634.33	4191156.46	15.64446	650684.33	4191156.46	20.11082
650734.33	4191156.46	25.77623	650784.33	4191156.46	29.13759
650834.33	4191156.46	26.58237	650884.33	4191156.46	23.35002
650934.33	4191156.46	20.56141	650984.33	4191156.46	17.50970
651034.33	4191156.46	14.77881	651084.33	4191156.46	12.66022
651134.33	4191156.46	10.98334	651184.33	4191156.46	9.55672
651234.33	4191156.46	8.31466	651284.33	4191156.46	7.24807
651334.33	4191156.46	6.34691	650334.33	4191206.46	4.99066
650384.33	4191206.46	5.70806	650434.33	4191206.46	6.58137
650484.33	4191206.46	7.65393	650534.33	4191206.46	8.99839
650584.33	4191206.46	10.75194	650634.33	4191206.46	13.07978
650684.33	4191206.46	15.77869	650734.33	4191206.46	17.72330
650784.33	4191206.46	17.64510	650834.33	4191206.46	15.85499
650884.33	4191206.46	14.54271	650934.33	4191206.46	13.34660
650984.33	4191206.46	11.88796	651034.33	4191206.46	10.45851
651084.33	4191206.46	9.17650	651134.33	4191206.46	8.12639
651184.33	4191206.46	7.27049	651234.33	4191206.46	6.54290
651284.33	4191206.46	5.89407	651334.33	4191206.46	5.30669
650334.33	4191256.46	4.63779	650384.33	4191256.46	5.23195
650434.33	4191256.46	5.94012	650484.33	4191256.46	6.80676
650534.33	4191256.46	7.90344	650584.33	4191256.46	9.27823
650634.33	4191256.46	10.78558	650684.33	4191256.46	11.95927
650734.33	4191256.46	12.30462	650784.33	4191256.46	11.70648
650834.33	4191256.46	10.66159	650884.33	4191256.46	10.02407
650934.33	4191256.46	9.41447	650984.33	4191256.46	8.62569
651034.33	4191256.46	7.82297	651084.33	4191256.46	7.03209
651134.33	4191256.46	6.32646	651184.33	4191256.46	5.72428
651234.33	4191256.46	5.21699	651284.33	4191256.46	4.78502
651334.33	4191256.46	4.40181	650334.33	4191306.46	4.26100
650384.33	4191306.46	4.75660	650434.33	4191306.46	5.35465
650484.33	4191306.46	6.09208	650534.33	4191306.46	6.97588

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*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	7.90979	650634.33	4191306.46	8.66738
650684.33	4191306.46	9.02190	650734.33	4191306.46	8.89629
650784.33	4191306.46	8.34785	650834.33	4191306.46	7.73487
650884.33	4191306.46	7.38408	650934.33	4191306.46	7.03142
650984.33	4191306.46	6.57105	651034.33	4191306.46	6.07722
651084.33	4191306.46	5.57987	651134.33	4191306.46	5.09703
651184.33	4191306.46	4.66602	651234.33	4191306.46	4.28633
651284.33	4191306.46	3.95642	651334.33	4191306.46	3.67255
650334.33	4191356.46	3.90714	650384.33	4191356.46	4.34110
650434.33	4191356.46	4.86348	650484.33	4191356.46	5.46760
650534.33	4191356.46	6.08988	650584.33	4191356.46	6.60765
650634.33	4191356.46	6.90314	650684.33	4191356.46	6.93308
650734.33	4191356.46	6.70470	650784.33	4191356.46	6.28126
650834.33	4191356.46	5.91082	650884.33	4191356.46	5.69933
650934.33	4191356.46	5.47600	650984.33	4191356.46	5.18873
651034.33	4191356.46	4.86649	651084.33	4191356.46	4.53883
651134.33	4191356.46	4.20607	651184.33	4191356.46	3.89041
651234.33	4191356.46	3.60707	651284.33	4191356.46	3.35111
651334.33	4191356.46	3.12272	650334.33	4191406.46	3.60353
650384.33	4191406.46	3.98843	650434.33	4191406.46	4.42102
650484.33	4191406.46	4.85856	650534.33	4191406.46	5.22910
650584.33	4191406.46	5.46537	650634.33	4191406.46	5.54139
650684.33	4191406.46	5.46206	650734.33	4191406.46	5.23326
650784.33	4191406.46	4.92165	650834.33	4191406.46	4.69025
650884.33	4191406.46	4.55354	650934.33	4191406.46	4.40265
650984.33	4191406.46	4.21166	651034.33	4191406.46	3.99403
651084.33	4191406.46	3.76626	651134.33	4191406.46	3.53424
651184.33	4191406.46	3.30059	651234.33	4191406.46	3.08326
651284.33	4191406.46	2.88664	651334.33	4191406.46	2.70535
650334.33	4191456.46	3.34098	650384.33	4191456.46	3.66224
650434.33	4191456.46	3.98286	650484.33	4191456.46	4.25800
650534.33	4191456.46	4.44641	650584.33	4191456.46	4.53111
650634.33	4191456.46	4.51665	650684.33	4191456.46	4.40577
650734.33	4191456.46	4.20394	650784.33	4191456.46	3.97865
650834.33	4191456.46	3.82929	650884.33	4191456.46	3.73593
650934.33	4191456.46	3.62899	650984.33	4191456.46	3.49492
651034.33	4191456.46	3.34301	651084.33	4191456.46	3.17952
651134.33	4191456.46	3.01192	651184.33	4191456.46	2.84009
651234.33	4191456.46	2.67026	651284.33	4191456.46	2.51443
651334.33	4191456.46	2.37219	650334.33	4191506.46	3.09280

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*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.33557	650434.33	4191506.46	3.54608
650484.33	4191506.46	3.69761	650534.33	4191506.46	3.77838
650584.33	4191506.46	3.79181	650634.33	4191506.46	3.74238
650684.33	4191506.46	3.62729	650734.33	4191506.46	3.45830
650784.33	4191506.46	3.29636	650834.33	4191506.46	3.19688
650884.33	4191506.46	3.13020	650934.33	4191506.46	3.05160
650984.33	4191506.46	2.95334	651034.33	4191506.46	2.84328
651084.33	4191506.46	2.72390	651134.33	4191506.46	2.59855
651184.33	4191506.46	2.47055	651234.33	4191506.46	2.33938
651284.33	4191506.46	2.21248	651334.33	4191506.46	2.09706
650334.33	4191556.46	2.84215	650384.33	4191556.46	3.00725
650434.33	4191556.46	3.13057	650484.33	4191556.46	3.20356
650534.33	4191556.46	3.22850	650584.33	4191556.46	3.21037
650634.33	4191556.46	3.14819	650684.33	4191556.46	3.03939
650734.33	4191556.46	2.90189	650784.33	4191556.46	2.78547
650834.33	4191556.46	2.71719	650884.33	4191556.46	2.66778
650934.33	4191556.46	2.60828	650984.33	4191556.46	2.53389
651034.33	4191556.46	2.45109	651084.33	4191556.46	2.36230
651134.33	4191556.46	2.26693	651184.33	4191556.46	2.16865
651234.33	4191556.46	2.06798	651284.33	4191556.46	1.96565
651334.33	4191556.46	1.86867	650934.45	4191196.80	14.39530
650934.45	4191240.55	10.44323	651071.58	4191520.04	2.64644
650517.18	4191503.06	3.79860	650941.63	4190991.11	253.15177
650974.28	4190903.61	72.18486	650989.95	4190868.34	46.11773
651153.79	4190886.56	21.40755	651170.44	4190902.10	20.02187
651162.67	4190888.23	20.45876	651241.49	4191031.43	12.92994
650569.32	4190797.20	7.67968	650392.81	4190782.21	4.51147

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop *** 12/20/23
*** AERMET - VERSION 18081 *** *** *** 19:55:06

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	2.39358	650384.33	4190556.46	2.56717

650434.33	4190556.46	2.76623	650484.33	4190556.46	3.00527
650534.33	4190556.46	3.29838	650584.33	4190556.46	3.66306
650634.33	4190556.46	4.11874	650684.33	4190556.46	4.66077
650734.33	4190556.46	5.23582	650784.33	4190556.46	5.71845
650834.33	4190556.46	5.95863	650884.33	4190556.46	5.98101
650934.33	4190556.46	6.04824	650984.33	4190556.46	6.33167
651034.33	4190556.46	6.62916	651084.33	4190556.46	6.75636
651134.33	4190556.46	6.64077	651184.33	4190556.46	6.34437
651234.33	4190556.46	6.03283	651284.33	4190556.46	5.76021
651334.33	4190556.46	5.48253	650334.33	4190606.46	2.63324
650384.33	4190606.46	2.84699	650434.33	4190606.46	3.08047
650484.33	4190606.46	3.34916	650534.33	4190606.46	3.67702
650584.33	4190606.46	4.08968	650634.33	4190606.46	4.61845
650684.33	4190606.46	5.28740	650734.33	4190606.46	6.05853
650784.33	4190606.46	6.78624	650834.33	4190606.46	7.21843
650884.33	4190606.46	7.30143	650934.33	4190606.46	7.41223
650984.33	4190606.46	7.81522	651034.33	4190606.46	8.18654
651084.33	4190606.46	8.25343	651134.33	4190606.46	7.96798
651184.33	4190606.46	7.54372	651234.33	4190606.46	7.15501
651284.33	4190606.46	6.76886	651334.33	4190606.46	6.33794
650334.33	4190656.46	2.88429	650384.33	4190656.46	3.15598
650434.33	4190656.46	3.45294	650484.33	4190656.46	3.77938
650534.33	4190656.46	4.15665	650584.33	4190656.46	4.62590
650634.33	4190656.46	5.23671	650684.33	4190656.46	6.04643
650734.33	4190656.46	7.06899	650784.33	4190656.46	8.15800
650834.33	4190656.46	8.93301	650884.33	4190656.46	9.14814
650934.33	4190656.46	9.33866	650984.33	4190656.46	9.93442
651034.33	4190656.46	10.38037	651084.33	4190656.46	10.27464
651134.33	4190656.46	9.74216	651184.33	4190656.46	9.16863
651234.33	4190656.46	8.60695	651284.33	4190656.46	7.98054
651334.33	4190656.46	7.30541	650334.33	4190706.46	3.14402
650384.33	4190706.46	3.47867	650434.33	4190706.46	3.86078
650484.33	4190706.46	4.29005	650534.33	4190706.46	4.76910
650584.33	4190706.46	5.32663	650634.33	4190706.46	6.03671
650684.33	4190706.46	7.00281	650734.33	4190706.46	8.32937
650784.33	4190706.46	9.94602	650834.33	4190706.46	11.33804
650884.33	4190706.46	11.85216	650934.33	4190706.46	12.20023
650984.33	4190706.46	13.12152	651034.33	4190706.46	13.58297
651084.33	4190706.46	13.09724	651134.33	4190706.46	12.24047

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	11.37604	651234.33	4190706.46	10.41110

651284.33	4190706.46	9.37012	651334.33	4190706.46	8.34132
650334.33	4190756.46	3.42837	650384.33	4190756.46	3.82237
650434.33	4190756.46	4.29056	650484.33	4190756.46	4.84578
650534.33	4190756.46	5.49550	650584.33	4190756.46	6.24286
650634.33	4190756.46	7.12504	650684.33	4190756.46	8.28395
650734.33	4190756.46	9.95787	650784.33	4190756.46	12.31510
650834.33	4190756.46	14.82608	650884.33	4190756.46	16.05472
650934.33	4190756.46	16.74804	650984.33	4190756.46	18.24184
651034.33	4190756.46	18.46060	651084.33	4190756.46	17.27976
651134.33	4190756.46	15.85501	651184.33	4190756.46	14.24709
651234.33	4190756.46	12.51250	651284.33	4190756.46	10.83914
651334.33	4190756.46	9.34035	650334.33	4190806.46	3.75069
650384.33	4190806.46	4.21268	650434.33	4190806.46	4.76938
650484.33	4190806.46	5.44971	650534.33	4190806.46	6.29023
650584.33	4190806.46	7.32829	650634.33	4190806.46	8.58825
650684.33	4190806.46	10.12340	650734.33	4190806.46	12.23152
650784.33	4190806.46	15.53671	650834.33	4190806.46	20.06677
650884.33	4190806.46	23.13125	650934.33	4190806.46	24.69959
650984.33	4190806.46	27.20082	651034.33	4190806.46	26.37836
651084.33	4190806.46	23.86610	651134.33	4190806.46	20.87038
651184.33	4190806.46	17.64678	651234.33	4190806.46	14.67517
651284.33	4190806.46	12.18192	651334.33	4190806.46	10.18440
650334.33	4190856.46	4.08862	650384.33	4190856.46	4.63828
650434.33	4190856.46	5.31052	650484.33	4190856.46	6.14433
650534.33	4190856.46	7.19655	650584.33	4190856.46	8.55226
650634.33	4190856.46	10.33389	650684.33	4190856.46	12.68332
650734.33	4190856.46	15.75128	650784.33	4190856.46	20.28560
650834.33	4190856.46	28.20587	650884.33	4190856.46	36.44603
650934.33	4190856.46	40.76690	650984.33	4190856.46	44.74104
651034.33	4190856.46	40.55115	651084.33	4190856.46	33.94151
651134.33	4190856.46	26.89300	651184.33	4190856.46	20.96199
651234.33	4190856.46	16.49539	651284.33	4190856.46	13.22916
651334.33	4190856.46	10.82237	650334.33	4190906.46	4.43048
650384.33	4190906.46	5.07014	650434.33	4190906.46	5.86965
650484.33	4190906.46	6.88781	650534.33	4190906.46	8.21223
650584.33	4190906.46	9.97755	650634.33	4190906.46	12.39866
650684.33	4190906.46	15.83566	650734.33	4190906.46	20.90280
650784.33	4190906.46	28.50390	650834.33	4190906.46	41.54970
650884.33	4190906.46	65.60497	650934.33	4190906.46	82.15898

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	85.20095	651034.33	4190906.46	66.06574

651084.33	4190906.46	46.01859	651134.33	4190906.46	32.14727
651184.33	4190906.46	23.38016	651234.33	4190906.46	17.71108
651284.33	4190906.46	13.88142	651334.33	4190906.46	11.18556
650334.33	4190956.46	4.77401	650384.33	4190956.46	5.50673
650434.33	4190956.46	6.43662	650484.33	4190956.46	7.64414
650534.33	4190956.46	9.25615	650584.33	4190956.46	11.48247
650634.33	4190956.46	14.69036	650684.33	4190956.46	19.56751
650734.33	4190956.46	27.50972	650784.33	4190956.46	41.60893
650834.33	4190956.46	69.08518	650884.33	4190956.46	136.56735
650934.33	4190956.46	251.71996	650984.33	4190956.46	185.97031
651034.33	4190956.46	94.16495	651084.33	4190956.46	53.84109
651134.33	4190956.46	34.67887	651184.33	4190956.46	24.26648
651234.33	4190956.46	18.00348	651284.33	4190956.46	13.94248
651334.33	4190956.46	11.15484	650334.33	4191006.46	5.03629
650384.33	4191006.46	5.84289	650434.33	4191006.46	6.87833
650484.33	4191006.46	8.24221	650534.33	4191006.46	10.09642
650584.33	4191006.46	12.71964	650634.33	4191006.46	16.62679
650684.33	4191006.46	22.86183	650734.33	4191006.46	33.82602
650784.33	4191006.46	56.12048	650834.33	4191006.46	113.06415
650884.33	4191006.46	263.87980	650934.33	4191006.46	476.77232
650984.33	4191006.46	219.43798	651034.33	4191006.46	92.47436
651084.33	4191006.46	51.16401	651134.33	4191006.46	32.80302
651184.33	4191006.46	23.01040	651234.33	4191006.46	17.14274
651284.33	4191006.46	13.33272	651334.33	4191006.46	10.70890
650334.33	4191056.46	5.11018	650384.33	4191056.46	5.92343
650434.33	4191056.46	6.96424	650484.33	4191056.46	8.32951
650534.33	4191056.46	10.17491	650584.33	4191056.46	12.76401
650634.33	4191056.46	16.57249	650684.33	4191056.46	22.52858
650734.33	4191056.46	32.62873	650784.33	4191056.46	51.67945
650834.33	4191056.46	93.09650	650884.33	4191056.46	158.71793
650934.33	4191056.46	108.02096	650984.33	4191056.46	76.74642
651034.33	4191056.46	53.44381	651084.33	4191056.46	36.70624
651134.33	4191056.46	26.14670	651184.33	4191056.46	19.46090
651234.33	4191056.46	15.04636	651284.33	4191056.46	11.99896
651334.33	4191056.46	9.81111	650334.33	4191106.46	4.97560
650384.33	4191106.46	5.73500	650434.33	4191106.46	6.69715
650484.33	4191106.46	7.94327	650534.33	4191106.46	9.59880
650584.33	4191106.46	11.86312	650634.33	4191106.46	15.06030
650684.33	4191106.46	19.72671	650734.33	4191106.46	26.83405

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	38.44255	650834.33	4191106.46	53.92522

650884.33	4191106.46	52.50576	650934.33	4191106.46	42.99964
650984.33	4191106.46	34.54841	651034.33	4191106.46	27.33661
651084.33	4191106.46	22.15728	651134.33	4191106.46	18.04517
651184.33	4191106.46	14.71018	651234.33	4191106.46	12.08808
651284.33	4191106.46	10.05760	651334.33	4191106.46	8.48140
650334.33	4191156.46	4.74975	650384.33	4191156.46	5.44505
650434.33	4191156.46	6.31275	650484.33	4191156.46	7.41069
650534.33	4191156.46	8.81858	650584.33	4191156.46	10.64764
650634.33	4191156.46	13.06906	650684.33	4191156.46	16.41164
650734.33	4191156.46	21.19561	650784.33	4191156.46	26.81294
650834.33	4191156.46	29.08497	650884.33	4191156.46	25.72397
650934.33	4191156.46	22.88794	650984.33	4191156.46	19.93676
651034.33	4191156.46	16.92120	651084.33	4191156.46	14.30795
651134.33	4191156.46	12.29738	651184.33	4191156.46	10.68168
651234.33	4191156.46	9.29410	651284.33	4191156.46	8.08746
651334.33	4191156.46	7.05513	650334.33	4191206.46	4.50744
650384.33	4191206.46	5.12330	650434.33	4191206.46	5.86908
650484.33	4191206.46	6.77822	650534.33	4191206.46	7.89785
650584.33	4191206.46	9.31054	650634.33	4191206.46	11.16840
650684.33	4191206.46	13.61127	650734.33	4191206.46	16.27829
650784.33	4191206.46	17.89118	650834.33	4191206.46	17.36922
650884.33	4191206.46	15.50398	650934.33	4191206.46	14.34220
650984.33	4191206.46	13.05633	651034.33	4191206.46	11.59983
651084.33	4191206.46	10.18436	651134.33	4191206.46	8.94841
651184.33	4191206.46	7.94163	651234.33	4191206.46	7.11679
651284.33	4191206.46	6.40779	651334.33	4191206.46	5.77182
650334.33	4191256.46	4.22782	650384.33	4191256.46	4.74885
650434.33	4191256.46	5.36342	650484.33	4191256.46	6.09883
650534.33	4191256.46	7.00512	650584.33	4191256.46	8.15657
650634.33	4191256.46	9.57963	650684.33	4191256.46	11.06594
650734.33	4191256.46	12.10481	650784.33	4191256.46	12.25646
650834.33	4191256.46	11.49995	650884.33	4191256.46	10.49603
650934.33	4191256.46	9.91914	650984.33	4191256.46	9.26510
651034.33	4191256.46	8.46456	651084.33	4191256.46	7.66195
651134.33	4191256.46	6.88247	651184.33	4191256.46	6.19799
651234.33	4191256.46	5.61562	651284.33	4191256.46	5.12545
651334.33	4191256.46	4.70523	650334.33	4191306.46	3.91817
650384.33	4191306.46	4.35353	650434.33	4191306.46	4.86684
650484.33	4191306.46	5.48994	650534.33	4191306.46	6.25822

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	7.16432	650634.33	4191306.46	8.08402

650684.33	4191306.46	8.77545	650734.33	4191306.46	9.03509
650784.33	4191306.46	8.81551	650834.33	4191306.46	8.21174
650884.33	4191306.46	7.64749	650934.33	4191306.46	7.32226
650984.33	4191306.46	6.94649	651034.33	4191306.46	6.47238
651084.33	4191306.46	5.97847	651134.33	4191306.46	5.48041
651184.33	4191306.46	5.00637	651234.33	4191306.46	4.58614
651284.33	4191306.46	4.21635	651334.33	4191306.46	3.89626
650334.33	4191356.46	3.61162	650384.33	4191356.46	3.98761
650434.33	4191356.46	4.43815	650484.33	4191356.46	4.97880
650534.33	4191356.46	5.59388	650584.33	4191356.46	6.20624
650634.33	4191356.46	6.68717	650684.33	4191356.46	6.93042
650734.33	4191356.46	6.90763	650784.33	4191356.46	6.63059
650834.33	4191356.46	6.19336	650884.33	4191356.46	5.86045
650934.33	4191356.46	5.65980	650984.33	4191356.46	5.42312
651034.33	4191356.46	5.12574	651084.33	4191356.46	4.80120
651134.33	4191356.46	4.47246	651184.33	4191356.46	4.14059
651234.33	4191356.46	3.83125	651284.33	4191356.46	3.55380
651334.33	4191356.46	3.30312	650334.33	4191406.46	3.33760
650384.33	4191406.46	3.67583	650434.33	4191406.46	4.07197
650484.33	4191406.46	4.51014	650534.33	4191406.46	4.94055
650584.33	4191406.46	5.28864	650634.33	4191406.46	5.49342
650684.33	4191406.46	5.53775	650734.33	4191406.46	5.42783
650784.33	4191406.46	5.17290	650834.33	4191406.46	4.86461
650884.33	4191406.46	4.65909	650934.33	4191406.46	4.52672
650984.33	4191406.46	4.36727	651034.33	4191406.46	4.16980
651084.33	4191406.46	3.94878	651134.33	4191406.46	3.72036
651184.33	4191406.46	3.48714	651234.33	4191406.46	3.25535
651284.33	4191406.46	3.04248	651334.33	4191406.46	2.84924
650334.33	4191456.46	3.10397	650384.33	4191456.46	3.40357
650434.33	4191456.46	3.72771	650484.33	4191456.46	4.04306
650534.33	4191456.46	4.30360	650584.33	4191456.46	4.47168
650634.33	4191456.46	4.53589	650684.33	4191456.46	4.50230
650734.33	4191456.46	4.37185	650784.33	4191456.46	4.15702
650834.33	4191456.46	3.94113	650884.33	4191456.46	3.80887
650934.33	4191456.46	3.71687	650984.33	4191456.46	3.60403
651034.33	4191456.46	3.46576	651084.33	4191456.46	3.31098
651134.33	4191456.46	3.14621	651184.33	4191456.46	2.97794
651234.33	4191456.46	2.80550	651284.33	4191456.46	2.63779
651334.33	4191456.46	2.48509	650334.33	4191506.46	2.89531

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.14245	650434.33	4191506.46	3.38124

650484.33	4191506.46	3.58175	650534.33	4191506.46	3.71947
650584.33	4191506.46	3.78621	650634.33	4191506.46	3.78696
650684.33	4191506.46	3.72472	650734.33	4191506.46	3.59665
650784.33	4191506.46	3.42267	650834.33	4191506.46	3.27124
650884.33	4191506.46	3.18282	650934.33	4191506.46	3.11617
650984.33	4191506.46	3.03328	651034.33	4191506.46	2.93209
651084.33	4191506.46	2.82013	651134.33	4191506.46	2.69911
651184.33	4191506.46	2.57320	651234.33	4191506.46	2.44448
651284.33	4191506.46	2.31330	651334.33	4191506.46	2.18844
650334.33	4191556.46	2.69201	650384.33	4191556.46	2.87773
650434.33	4191556.46	3.03571	650484.33	4191556.46	3.14925
650534.33	4191556.46	3.21220	650584.33	4191556.46	3.22824
650634.33	4191556.46	3.20161	650684.33	4191556.46	3.13007
650734.33	4191556.46	3.01294	650784.33	4191556.46	2.87518
650834.33	4191556.46	2.76832	650884.33	4191556.46	2.70710
650934.33	4191556.46	2.65713	650984.33	4191556.46	2.59444
651034.33	4191556.46	2.51780	651084.33	4191556.46	2.43387
651134.33	4191556.46	2.34368	651184.33	4191556.46	2.24740
651234.33	4191556.46	2.14877	651284.33	4191556.46	2.04748
651334.33	4191556.46	1.94558	650934.45	4191196.80	15.55253
650934.45	4191240.55	11.06046	651071.58	4191520.04	2.73334
650517.18	4191503.06	3.71548	650941.63	4190991.11	670.37418
650974.28	4190903.61	83.75529	650989.95	4190868.34	50.96899
651153.79	4190886.56	26.92149	651170.44	4190902.10	25.23089
651162.67	4190888.23	25.65092	651241.49	4191031.43	15.66995
650569.32	4190797.20	6.80437	650392.81	4190782.21	4.09697

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650334.33	4190556.46	1.93863	650384.33	4190556.46	2.06380
650434.33	4190556.46	2.21050	650484.33	4190556.46	2.38439
650534.33	4190556.46	2.59213	650584.33	4190556.46	2.84358
650634.33	4190556.46	3.14638	650684.33	4190556.46	3.49455
650734.33	4190556.46	3.86120	650784.33	4190556.46	4.18809
650834.33	4190556.46	4.39532	650884.33	4190556.46	4.45376
650934.33	4190556.46	4.43393	650984.33	4190556.46	4.48873
651034.33	4190556.46	4.67352	651084.33	4190556.46	4.86883
651134.33	4190556.46	4.98409	651184.33	4190556.46	4.98266
651234.33	4190556.46	4.84640	651284.33	4190556.46	4.63723
651334.33	4190556.46	4.43966	650334.33	4190606.46	2.11721
650384.33	4190606.46	2.25829	650434.33	4190606.46	2.41881
650484.33	4190606.46	2.60910	650534.33	4190606.46	2.83866
650584.33	4190606.46	3.11878	650634.33	4190606.46	3.46456

650684.33	4190606.46	3.88184	650734.33	4190606.46	4.34839
650784.33	4190606.46	4.80097	650834.33	4190606.46	5.12546
650884.33	4190606.46	5.24445	650934.33	4190606.46	5.23554
650984.33	4190606.46	5.31544	651034.33	4190606.46	5.56176
651084.33	4190606.46	5.80089	651134.33	4190606.46	5.91105
651184.33	4190606.46	5.83816	651234.33	4190606.46	5.60749
651284.33	4190606.46	5.34381	651334.33	4190606.46	5.11645
650334.33	4190656.46	2.31539	650384.33	4190656.46	2.48608
650434.33	4190656.46	2.67144	650484.33	4190656.46	2.88286
650534.33	4190656.46	3.13680	650584.33	4190656.46	3.44985
650634.33	4190656.46	3.84185	650684.33	4190656.46	4.33499
650734.33	4190656.46	4.92382	650784.33	4190656.46	5.54476
650834.33	4190656.46	6.04971	650884.33	4190656.46	6.27780
650934.33	4190656.46	6.29388	650984.33	4190656.46	6.41417
651034.33	4190656.46	6.75134	651084.33	4190656.46	7.04294
651134.33	4190656.46	7.11461	651184.33	4190656.46	6.91586
651234.33	4190656.46	6.57687	651284.33	4190656.46	6.25827
651334.33	4190656.46	5.96472	650334.33	4190706.46	2.52312
650384.33	4190706.46	2.73723	650434.33	4190706.46	2.96820
650484.33	4190706.46	3.21989	650534.33	4190706.46	3.50775
650584.33	4190706.46	3.85882	650634.33	4190706.46	4.30351
650684.33	4190706.46	4.87808	650734.33	4190706.46	5.61074
650784.33	4190706.46	6.45573	650834.33	4190706.46	7.23605
650884.33	4190706.46	7.66394	650934.33	4190706.46	7.73550
650984.33	4190706.46	7.92404	651034.33	4190706.46	8.40000
651084.33	4190706.46	8.74424	651134.33	4190706.46	8.70283

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
651184.33	4190706.46	8.31547	651234.33	4190706.46	7.86230
651284.33	4190706.46	7.44497	651334.33	4190706.46	6.99804
650334.33	4190756.46	2.73592	650384.33	4190756.46	2.99887
650434.33	4190756.46	3.29268	650484.33	4190756.46	3.61626
650534.33	4190756.46	3.97223	650584.33	4190756.46	4.38101
650634.33	4190756.46	4.88867	650684.33	4190756.46	5.55470
650734.33	4190756.46	6.44740	650784.33	4190756.46	7.58367
650834.33	4190756.46	8.78127	650884.33	4190756.46	9.58060
650934.33	4190756.46	9.77739	650984.33	4190756.46	10.08862
651034.33	4190756.46	10.78395	651084.33	4190756.46	11.14537
651134.33	4190756.46	10.85159	651184.33	4190756.46	10.22163
651234.33	4190756.46	9.60059	651284.33	4190756.46	8.94345
651334.33	4190756.46	8.20906	650334.33	4190806.46	2.96261
650384.33	4190806.46	3.27162	650434.33	4190806.46	3.63109

650484.33	4190806.46	4.04612	650534.33	4190806.46	4.51785
650584.33	4190806.46	5.04745	650634.33	4190806.46	5.66069
650684.33	4190806.46	6.43952	650734.33	4190806.46	7.51022
650784.33	4190806.46	9.00221	650834.33	4190806.46	10.82600
650884.33	4190806.46	12.32582	650934.33	4190806.46	12.81818
650984.33	4190806.46	13.36883	651034.33	4190806.46	14.41895
651084.33	4190806.46	14.65043	651134.33	4190806.46	13.89533
651184.33	4190806.46	12.92879	651234.33	4190806.46	11.90165
651284.33	4190806.46	10.74561	651334.33	4190806.46	9.55382
650334.33	4190856.46	3.21891	650384.33	4190856.46	3.57480
650434.33	4190856.46	3.99693	650484.33	4190856.46	4.50207
650534.33	4190856.46	5.10794	650584.33	4190856.46	5.82791
650634.33	4190856.46	6.66728	650684.33	4190856.46	7.65764
650734.33	4190856.46	8.95360	650784.33	4190856.46	10.85357
650834.33	4190856.46	13.57819	650884.33	4190856.46	16.41777
650934.33	4190856.46	17.65730	650984.33	4190856.46	18.72907
651034.33	4190856.46	20.34123	651084.33	4190856.46	20.01232
651134.33	4190856.46	18.49102	651184.33	4190856.46	16.75000
651234.33	4190856.46	14.76447	651284.33	4190856.46	12.74705
651334.33	4190856.46	10.89944	650334.33	4190906.46	3.49793
650384.33	4190906.46	3.91536	650434.33	4190906.46	4.41405
650484.33	4190906.46	5.01759	650534.33	4190906.46	5.75922
650584.33	4190906.46	6.68403	650634.33	4190906.46	7.84504
650684.33	4190906.46	9.28544	650734.33	4190906.46	11.05832
650784.33	4190906.46	13.48537	650834.33	4190906.46	17.38131
650884.33	4190906.46	22.78596	650934.33	4190906.46	26.10022

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650984.33	4190906.46	28.49452	651034.33	4190906.46	30.83015
651084.33	4190906.46	28.88507	651134.33	4190906.46	25.59883
651184.33	4190906.46	21.72801	651234.33	4190906.46	17.91500
651284.33	4190906.46	14.65283	651334.33	4190906.46	12.05253
650334.33	4190956.46	3.77868	650384.33	4190956.46	4.26582
650434.33	4190956.46	4.85886	650484.33	4190956.46	5.59034
650534.33	4190956.46	6.50600	650584.33	4190956.46	7.67249
650634.33	4190956.46	9.19097	650684.33	4190956.46	11.21662
650734.33	4190956.46	13.96062	650784.33	4190956.46	17.64874
650834.33	4190956.46	23.12727	650884.33	4190956.46	33.09119
650934.33	4190956.46	42.94316	650984.33	4190956.46	49.55037
651034.33	4190956.46	51.66596	651084.33	4190956.46	44.69344
651134.33	4190956.46	35.48038	651184.33	4190956.46	27.03822
651234.33	4190956.46	20.66779	651284.33	4190956.46	16.13696

651334.33	4190956.46	12.90585	650334.33	4191006.46	4.06722
650384.33	4191006.46	4.62347	650434.33	4191006.46	5.31135
650484.33	4191006.46	6.17734	650534.33	4191006.46	7.29028
650584.33	4191006.46	8.75532	650634.33	4191006.46	10.73865
650684.33	4191006.46	13.51314	650734.33	4191006.46	17.54812
650784.33	4191006.46	23.69412	650834.33	4191006.46	33.42005
650884.33	4191006.46	50.75385	650934.33	4191006.46	84.12798
650984.33	4191006.46	110.07763	651034.33	4191006.46	100.08731
651084.33	4191006.46	68.85087	651134.33	4191006.46	45.11307
651184.33	4191006.46	30.96042	651234.33	4191006.46	22.43328
651284.33	4191006.46	16.99874	651334.33	4191006.46	13.34491
650334.33	4191056.46	4.34131	650384.33	4191056.46	4.96829
650434.33	4191056.46	5.75346	650484.33	4191056.46	6.75719
650534.33	4191056.46	8.07211	650584.33	4191056.46	9.84687
650634.33	4191056.46	12.33271	650684.33	4191056.46	15.98219
650734.33	4191056.46	21.67860	650784.33	4191056.46	31.33268
650834.33	4191056.46	49.64553	650884.33	4191056.46	89.89170
650934.33	4191056.46	208.35313	650984.33	4191056.46	399.76261
651034.33	4191056.46	182.43461	651084.33	4191056.46	85.73249
651134.33	4191056.46	49.16516	651184.33	4191056.46	32.00406
651234.33	4191056.46	22.62133	651284.33	4191056.46	16.92547
651334.33	4191056.46	13.19876	650334.33	4191106.46	4.52185
650384.33	4191106.46	5.19332	650434.33	4191106.46	6.03999
650484.33	4191106.46	7.13137	650534.33	4191106.46	8.57606
650584.33	4191106.46	10.55216	650634.33	4191106.46	13.36939
650684.33	4191106.46	17.60764	650734.33	4191106.46	24.46351

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650784.33	4191106.46	36.75887	650834.33	4191106.46	62.56377
650884.33	4191106.46	132.84492	650934.33	4191106.46	420.30922
650984.33	4191106.46	320.39928	651034.33	4191106.46	147.39263
651084.33	4191106.46	73.18766	651134.33	4191106.46	43.52457
651184.33	4191106.46	29.02559	651234.33	4191106.46	20.86615
651284.33	4191106.46	15.80630	651334.33	4191106.46	12.44173
650334.33	4191156.46	4.53802	650384.33	4191156.46	5.19984
650434.33	4191156.46	6.02966	650484.33	4191156.46	7.09180
650534.33	4191156.46	8.48503	650584.33	4191156.46	10.36787
650634.33	4191156.46	13.00774	650684.33	4191156.46	16.88311
650734.33	4191156.46	22.90829	650784.33	4191156.46	32.95812
650834.33	4191156.46	51.26168	650884.33	4191156.46	87.71208
650934.33	4191156.46	101.07441	650984.33	4191156.46	73.50575
651034.33	4191156.46	53.79461	651084.33	4191156.46	40.20436

651134.33	4191156.46	29.75187	651184.33	4191156.46	22.29475
651234.33	4191156.46	17.15793	651284.33	4191156.46	13.57463
651334.33	4191156.46	11.00639	650334.33	4191206.46	4.39941
650384.33	4191206.46	5.01549	650434.33	4191206.46	5.78164
650484.33	4191206.46	6.75206	650534.33	4191206.46	8.00683
650584.33	4191206.46	9.66664	650634.33	4191206.46	11.91583
650684.33	4191206.46	15.03880	650734.33	4191206.46	19.50160
650784.33	4191206.46	26.23703	650834.33	4191206.46	36.47432
650884.33	4191206.46	44.62717	650934.33	4191206.46	38.96563
650984.33	4191206.46	33.26566	651034.33	4191206.46	27.36449
651084.33	4191206.46	22.21715	651134.33	4191206.46	18.42176
651184.33	4191206.46	15.41153	651234.33	4191206.46	12.88693
651284.33	4191206.46	10.80942	651334.33	4191206.46	9.13794
650334.33	4191256.46	4.20783	650384.33	4191256.46	4.77538
650434.33	4191256.46	5.47124	650484.33	4191256.46	6.33409
650534.33	4191256.46	7.41558	650584.33	4191256.46	8.78503
650634.33	4191256.46	10.54237	650684.33	4191256.46	12.86495
650734.33	4191256.46	16.08425	650784.33	4191256.46	20.34792
650834.33	4191256.46	24.06180	650884.33	4191256.46	24.05767
650934.33	4191256.46	21.00510	650984.33	4191256.46	19.07007
651034.33	4191256.46	16.76115	651084.33	4191256.46	14.44108
651134.33	4191256.46	12.38426	651184.33	4191256.46	10.76370
651234.33	4191256.46	9.46048	651284.33	4191256.46	8.34131
651334.33	4191256.46	7.35151	650334.33	4191306.46	4.00708
650384.33	4191306.46	4.51324	650434.33	4191306.46	5.11764
650484.33	4191306.46	5.84334	650534.33	4191306.46	6.72129

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650584.33	4191306.46	7.80148	650634.33	4191306.46	9.17769
650684.33	4191306.46	10.98122	650734.33	4191306.46	13.17424
650784.33	4191306.46	15.12524	650834.33	4191306.46	15.79982
650884.33	4191306.46	14.82704	650934.33	4191306.46	13.33642
650984.33	4191306.46	12.47007	651034.33	4191306.46	11.38835
651084.33	4191306.46	10.20380	651134.33	4191306.46	9.04353
651184.33	4191306.46	8.01509	651234.33	4191306.46	7.16238
651284.33	4191306.46	6.45862	651334.33	4191306.46	5.85681
650334.33	4191356.46	3.77582	650384.33	4191356.46	4.20922
650434.33	4191356.46	4.71469	650484.33	4191356.46	5.31015
650534.33	4191356.46	6.02768	650584.33	4191356.46	6.92096
650634.33	4191356.46	8.04013	650684.33	4191356.46	9.32506
650734.33	4191356.46	10.47700	650784.33	4191356.46	11.07420
650834.33	4191356.46	10.90674	650884.33	4191356.46	10.09607

650934.33	4191356.46	9.31962	650984.33	4191356.46	8.86058
651034.33	4191356.46	8.28525	651084.33	4191356.46	7.60679
651134.33	4191356.46	6.92609	651184.33	4191356.46	6.26115
651234.33	4191356.46	5.67148	651284.33	4191356.46	5.16325
651334.33	4191356.46	4.73100	650334.33	4191406.46	3.51965
650384.33	4191406.46	3.88570	650434.33	4191406.46	4.31072
650484.33	4191406.46	4.81696	650534.33	4191406.46	5.43488
650584.33	4191406.46	6.18054	650634.33	4191406.46	7.00275
650684.33	4191406.46	7.74291	650734.33	4191406.46	8.19918
650784.33	4191406.46	8.26455	650834.33	4191406.46	7.94170
650884.33	4191406.46	7.36843	650934.33	4191406.46	6.93500
650984.33	4191406.46	6.66310	651034.33	4191406.46	6.32312
651084.33	4191406.46	5.90814	651134.33	4191406.46	5.47877
651184.33	4191406.46	5.04427	651234.33	4191406.46	4.62873
651284.33	4191406.46	4.25812	651334.33	4191406.46	3.92885
650334.33	4191456.46	3.26248	650384.33	4191456.46	3.57899
650434.33	4191456.46	3.95278	650484.33	4191456.46	4.40052
650534.33	4191456.46	4.92408	650584.33	4191456.46	5.48469
650634.33	4191456.46	5.99085	650684.33	4191456.46	6.33427
650734.33	4191456.46	6.45580	650784.33	4191456.46	6.35335
650834.33	4191456.46	6.04353	650884.33	4191456.46	5.65148
650934.33	4191456.46	5.39434	650984.33	4191456.46	5.22006
651034.33	4191456.46	5.00168	651084.33	4191456.46	4.73507
651134.33	4191456.46	4.44735	651184.33	4191456.46	4.15535
651234.33	4191456.46	3.85989	651284.33	4191456.46	3.58336
651334.33	4191456.46	3.33454	650334.33	4191506.46	3.02722

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
650384.33	4191506.46	3.31294	650434.33	4191506.46	3.64899
650484.33	4191506.46	4.03175	650534.33	4191506.46	4.43273
650584.33	4191506.46	4.79571	650634.33	4191506.46	5.05746
650684.33	4191506.46	5.18237	650734.33	4191506.46	5.16981
650784.33	4191506.46	5.02469	650834.33	4191506.46	4.76385
650884.33	4191506.46	4.49709	650934.33	4191506.46	4.33624
650984.33	4191506.46	4.21775	651034.33	4191506.46	4.06843
651084.33	4191506.46	3.88832	651134.33	4191506.46	3.68911
651184.33	4191506.46	3.48335	651234.33	4191506.46	3.27296
651284.33	4191506.46	3.06336	651334.33	4191506.46	2.87028
650334.33	4191556.46	2.82475	650384.33	4191556.46	3.08407
650434.33	4191556.46	3.37301	650484.33	4191556.46	3.67073
650534.33	4191556.46	3.94089	650584.33	4191556.46	4.14417
650634.33	4191556.46	4.25753	650684.33	4191556.46	4.28067

650734.33	4191556.46	4.21929	650784.33	4191556.46	4.07208
650834.33	4191556.46	3.86305	650884.33	4191556.46	3.68063
650934.33	4191556.46	3.57522	650984.33	4191556.46	3.49090
651034.33	4191556.46	3.38395	651084.33	4191556.46	3.25618
651134.33	4191556.46	3.11484	651184.33	4191556.46	2.96467
651234.33	4191556.46	2.81119	651284.33	4191556.46	2.65376
651334.33	4191556.46	2.50020	650934.45	4191196.80	45.21313
650934.45	4191240.55	24.98640	651071.58	4191520.04	3.74245
650517.18	4191503.06	4.32611	650941.63	4190991.11	68.75967
650974.28	4190903.61	27.05651	650989.95	4190868.34	20.75530
651153.79	4190886.56	21.38206	651170.44	4190902.10	22.29072
651162.67	4190888.23	21.09204	651241.49	4191031.43	21.78700
650569.32	4190797.20	4.75651	650392.81	4190782.21	3.18974

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	91.48366	(13010906)	650384.33	4190556.46	98.69628	(13013108)
650434.33	4190556.46	105.49768	(13013108)	650484.33	4190556.46	115.09705	(16010309)
650534.33	4190556.46	120.38740	(15122802)	650584.33	4190556.46	129.10496	(15010507)
650634.33	4190556.46	138.29176	(17020905)	650684.33	4190556.46	149.69867	(17121508)
650734.33	4190556.46	156.36745	(15021203)	650784.33	4190556.46	178.34500	(17123007)
650834.33	4190556.46	178.87682	(17122918)	650884.33	4190556.46	176.85077	(13012120)
650934.33	4190556.46	170.50242	(15012509)	650984.33	4190556.46	170.05456	(15010901)
651034.33	4190556.46	184.02740	(17011609)	651084.33	4190556.46	189.87670	(17011609)
651134.33	4190556.46	166.57500	(17122820)	651184.33	4190556.46	177.88932	(17123009)
651234.33	4190556.46	171.95486	(17123009)	651284.33	4190556.46	143.69343	(15041307)
651334.33	4190556.46	139.41240	(15041307)	650334.33	4190606.46	93.14711	(15010804)
650384.33	4190606.46	98.99339	(13010906)	650434.33	4190606.46	106.04389	(13013108)
650484.33	4190606.46	115.10501	(13013108)	650534.33	4190606.46	126.02721	(16010309)
650584.33	4190606.46	132.02604	(15122802)	650634.33	4190606.46	143.35311	(15010507)
650684.33	4190606.46	156.30668	(13020205)	650734.33	4190606.46	162.98803	(17121508)
650784.33	4190606.46	184.47026	(17123007)	650834.33	4190606.46	193.88052	(17122918)
650884.33	4190606.46	192.17373	(14021105)	650934.33	4190606.46	184.67555	(13012120)
650984.33	4190606.46	179.89857	(15010901)	651034.33	4190606.46	191.07317	(17011609)
651084.33	4190606.46	204.13018	(17011609)	651134.33	4190606.46	180.57921	(17011609)
651184.33	4190606.46	190.27432	(17123009)	651234.33	4190606.46	183.34397	(17123009)
651284.33	4190606.46	148.40473	(15041307)	651334.33	4190606.46	142.63161	(17122917)
650334.33	4190656.46	94.42738	(15011205)	650384.33	4190656.46	100.52112	(13010908)
650434.33	4190656.46	107.81308	(13022803)	650484.33	4190656.46	114.36034	(13013108)

650534.33	4190656.46	126.38557	(13013108)	650584.33	4190656.46	139.11907	(16010309)
650634.33	4190656.46	145.76434	(15122802)	650684.33	4190656.46	159.53459	(15010507)
650734.33	4190656.46	175.69157	(13020205)	650784.33	4190656.46	184.02220	(15021203)
650834.33	4190656.46	209.11756	(17123007)	650884.33	4190656.46	206.91203	(14021105)
650934.33	4190656.46	200.44632	(13012120)	650984.33	4190656.46	190.66728	(15012509)
651034.33	4190656.46	197.33094	(17011609)	651084.33	4190656.46	218.90460	(17011609)
651134.33	4190656.46	201.10783	(17011609)	651184.33	4190656.46	204.51664	(17123009)
651234.33	4190656.46	196.14783	(17123009)	651284.33	4190656.46	156.67739	(15011509)
651334.33	4190656.46	149.91388	(17122917)	650334.33	4190706.46	95.09485	(15010907)
650384.33	4190706.46	101.74932	(13012121)	650434.33	4190706.46	109.17741	(15011205)
650484.33	4190706.46	117.95820	(13022803)	650534.33	4190706.46	124.86364	(14021223)
650584.33	4190706.46	139.77385	(13013108)	650634.33	4190706.46	155.03264	(16010309)
650684.33	4190706.46	162.10702	(15122802)	650734.33	4190706.46	178.28840	(13012423)
650784.33	4190706.46	195.16811	(17121508)	650834.33	4190706.46	221.87120	(17123007)
650884.33	4190706.46	226.66013	(17122918)	650934.33	4190706.46	217.78985	(13012120)
650984.33	4190706.46	201.74303	(14120706)	651034.33	4190706.46	204.50699	(15010901)
651084.33	4190706.46	233.84259	(17011609)	651134.33	4190706.46	224.87066	(17011609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	221.03852	(17123009)	651234.33	4190706.46	210.60984	(17123009)
651284.33	4190706.46	166.68268	(17120822)	651334.33	4190706.46	156.47830	(17122917)
650334.33	4190756.46	99.89729	(17120517)	650384.33	4190756.46	105.28236	(17120517)
650434.33	4190756.46	110.07375	(17021403)	650484.33	4190756.46	119.55545	(15011205)
650534.33	4190756.46	129.26735	(15010804)	650584.33	4190756.46	138.94506	(13010906)
650634.33	4190756.46	155.84926	(13013108)	650684.33	4190756.46	174.69773	(16010309)
650734.33	4190756.46	183.02186	(15010507)	650784.33	4190756.46	208.06515	(13020205)
650834.33	4190756.46	223.14745	(15021203)	650884.33	4190756.46	250.09794	(17122918)
650934.33	4190756.46	241.52658	(14021105)	650984.33	4190756.46	218.57715	(13012120)
651034.33	4190756.46	219.04557	(15012509)	651084.33	4190756.46	248.40371	(17011609)
651134.33	4190756.46	252.43094	(17011609)	651184.33	4190756.46	240.40799	(17123009)
651234.33	4190756.46	227.01658	(17123009)	651284.33	4190756.46	179.36314	(17120822)
651334.33	4190756.46	161.89707	(17122917)	650334.33	4190806.46	99.88413	(17121504)
650384.33	4190806.46	109.36452	(17121504)	650434.33	4190806.46	116.14035	(17120517)
650484.33	4190806.46	121.44841	(17120517)	650534.33	4190806.46	130.98623	(13012121)
650584.33	4190806.46	142.82680	(13010908)	650634.33	4190806.46	156.06744	(13022803)
650684.33	4190806.46	175.39032	(13013108)	650734.33	4190806.46	199.44655	(16010309)
650784.33	4190806.46	213.03344	(15010507)	650834.33	4190806.46	241.86276	(13020205)
650884.33	4190806.46	276.59126	(17123007)	650934.33	4190806.46	273.19890	(14021105)

650984.33	4190806.46	237.36319	(13122919)	651034.33	4190806.46	232.44007	(15012509)
651084.33	4190806.46	261.84792	(17011609)	651134.33	4190806.46	284.34339	(17011609)
651184.33	4190806.46	263.41180	(17123009)	651234.33	4190806.46	245.69061	(17123009)
651284.33	4190806.46	194.51486	(17122917)	651334.33	4190806.46	165.79108	(17122917)
650334.33	4190856.46	102.09242	(17021420)	650384.33	4190856.46	109.79313	(17021420)
650434.33	4190856.46	115.85723	(17013106)	650484.33	4190856.46	128.40684	(17121504)
650534.33	4190856.46	137.53503	(17120517)	650584.33	4190856.46	145.13008	(15010907)
650634.33	4190856.46	160.60477	(15011205)	650684.33	4190856.46	177.20395	(13022803)
650734.33	4190856.46	199.45753	(13013108)	650784.33	4190856.46	231.20594	(16010309)
650834.33	4190856.46	249.57838	(15010507)	650884.33	4190856.46	285.96018	(14021408)
650934.33	4190856.46	314.13356	(14012608)	650984.33	4190856.46	270.09112	(17011609)
651034.33	4190856.46	248.46158	(13012120)	651084.33	4190856.46	273.36874	(17011609)
651134.33	4190856.46	321.01910	(17011609)	651184.33	4190856.46	291.16204	(17123009)
651234.33	4190856.46	266.95702	(17123009)	651284.33	4190856.46	210.69751	(17122917)
651334.33	4190856.46	168.01330	(17122917)	650334.33	4190906.46	107.89275	(17021308)
650384.33	4190906.46	114.81118	(17021308)	650434.33	4190906.46	118.84988	(17021308)
650484.33	4190906.46	129.61342	(17021420)	650534.33	4190906.46	137.65617	(17013106)
650584.33	4190906.46	154.36847	(17121504)	650634.33	4190906.46	166.18328	(17120517)
650684.33	4190906.46	180.39480	(13012121)	650734.33	4190906.46	202.76721	(15010804)
650784.33	4190906.46	229.55290	(13013108)	650834.33	4190906.46	272.72024	(16010309)
650884.33	4190906.46	306.20098	(13020205)	650934.33	4190906.46	364.92548	(17123007)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	330.22445	(17011609)	651034.33	4190906.46	270.99371	(17122917)
651084.33	4190906.46	297.24567	(15012509)	651134.33	4190906.46	362.28561	(17011609)
651184.33	4190906.46	325.25282	(17123009)	651234.33	4190906.46	291.04181	(17123009)
651284.33	4190906.46	225.09897	(17122917)	651334.33	4190906.46	170.52425	(17013024)
650334.33	4190956.46	100.47439	(17121823)	650384.33	4190956.46	109.99573	(17021308)
650434.33	4190956.46	123.69372	(17021308)	650484.33	4190956.46	136.57345	(17021308)
650534.33	4190956.46	146.51735	(17021308)	650584.33	4190956.46	156.18254	(17021420)
650634.33	4190956.46	168.85640	(17021420)	650684.33	4190956.46	191.11161	(17121504)
650734.33	4190956.46	206.63855	(15010907)	650784.33	4190956.46	234.27977	(15011205)
650834.33	4190956.46	268.09001	(13013108)	650884.33	4190956.46	327.61958	(16010309)
650934.33	4190956.46	393.22388	(14021408)	650984.33	4190956.46	425.63512	(13122919)
651034.33	4190956.46	334.89073	(17013024)	651084.33	4190956.46	322.94318	(15012509)
651134.33	4190956.46	406.41939	(17011609)	651184.33	4190956.46	367.98459	(17123009)
651234.33	4190956.46	317.79682	(17123009)	651284.33	4190956.46	235.41334	(17122917)
651334.33	4190956.46	171.53645	(17013024)	650334.33	4191006.46	100.33682	(17011605)

650384.33	4191006.46	106.54940	(17011605)	650434.33	4191006.46	115.01799	(17012823)
650484.33	4191006.46	127.13460	(17121823)	650534.33	4191006.46	140.09145	(17021308)
650584.33	4191006.46	162.61573	(17021308)	650634.33	4191006.46	183.27455	(17021308)
650684.33	4191006.46	196.86787	(17021308)	650734.33	4191006.46	216.33717	(17021420)
650784.33	4191006.46	245.08042	(17121504)	650834.33	4191006.46	276.93668	(14120904)
650884.33	4191006.46	330.22262	(16010309)	650934.33	4191006.46	400.52239	(16010309)
650984.33	4191006.46	545.23012	(13011517)	651034.33	4191006.46	339.81432	(17122318)
651084.33	4191006.46	346.51922	(13122919)	651134.33	4191006.46	448.35021	(17011609)
651184.33	4191006.46	423.32884	(17122820)	651234.33	4191006.46	345.99645	(17123009)
651284.33	4191006.46	239.89686	(17122917)	651334.33	4191006.46	171.39858	(17013024)
650334.33	4191056.46	99.41471	(17022506)	650384.33	4191056.46	106.96198	(17022506)
650434.33	4191056.46	114.82032	(17022506)	650484.33	4191056.46	125.98078	(17011605)
650534.33	4191056.46	139.48584	(17011605)	650584.33	4191056.46	153.11971	(17011605)
650634.33	4191056.46	169.38245	(17121823)	650684.33	4191056.46	193.70408	(17121823)
650734.33	4191056.46	234.34955	(17021308)	650784.33	4191056.46	268.40177	(17021308)
650834.33	4191056.46	292.77187	(17021420)	650884.33	4191056.46	335.03405	(14120904)
650934.33	4191056.46	426.96069	(16010309)	650984.33	4191056.46	586.10872	(13011517)
651034.33	4191056.46	357.43980	(13011517)	651084.33	4191056.46	371.96646	(13122919)
651134.33	4191056.46	478.72114	(17011609)	651184.33	4191056.46	532.90876	(17011609)
651234.33	4191056.46	380.93612	(15011509)	651284.33	4191056.46	240.43075	(17122917)
651334.33	4191056.46	187.97703	(17011509)	650334.33	4191106.46	95.61914	(17121807)
650384.33	4191106.46	103.45897	(17121807)	650434.33	4191106.46	112.35950	(17121807)
650484.33	4191106.46	122.45781	(17121807)	650534.33	4191106.46	133.86767	(17121807)
650584.33	4191106.46	148.97403	(17022506)	650634.33	4191106.46	169.21758	(17022506)
650684.33	4191106.46	192.29578	(17022506)	650734.33	4191106.46	221.22533	(17011605)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	260.46762	(17011605)	650834.33	4191106.46	310.66923	(17121823)
650884.33	4191106.46	395.86460	(17021308)	650934.33	4191106.46	437.38529	(17013022)
650984.33	4191106.46	600.84567	(13011517)	651034.33	4191106.46	387.37922	(13011517)
651084.33	4191106.46	410.49948	(13011517)	651134.33	4191106.46	498.06596	(15012509)
651184.33	4191106.46	705.12959	(17011609)	651234.33	4191106.46	413.14231	(17120822)
651284.33	4191106.46	242.63352	(17122917)	651334.33	4191106.46	191.50893	(17011509)
650334.33	4191156.46	93.67306	(17011505)	650384.33	4191156.46	100.59217	(17011505)
650434.33	4191156.46	108.55363	(17011505)	650484.33	4191156.46	117.81396	(17011505)
650534.33	4191156.46	128.72157	(17011505)	650584.33	4191156.46	141.75966	(17011505)
650634.33	4191156.46	157.61289	(17011505)	650684.33	4191156.46	177.27119	(17011505)
650734.33	4191156.46	205.13168	(17013008)	650784.33	4191156.46	242.40556	(17013008)

650834.33	4191156.46	299.13848	(17121420)	650884.33	4191156.46	384.40217	(17121807)
650934.33	4191156.46	519.09450	(17022506)	650984.33	4191156.46	607.11496	(17121321)
651034.33	4191156.46	504.15290	(17122520)	651084.33	4191156.46	475.30231	(17122520)
651134.33	4191156.46	524.65739	(17122218)	651184.33	4191156.46	911.25707	(17011609)
651234.33	4191156.46	413.38483	(15011509)	651284.33	4191156.46	322.35287	(17122519)
651334.33	4191156.46	255.21044	(17122621)	650334.33	4191206.46	91.64266	(17121203)
650384.33	4191206.46	98.06850	(17013107)	650434.33	4191206.46	105.59699	(17013107)
650484.33	4191206.46	114.20967	(17013107)	650534.33	4191206.46	124.14497	(17013107)
650584.33	4191206.46	135.69426	(17013107)	650634.33	4191206.46	151.75464	(17011121)
650684.33	4191206.46	171.43338	(17011121)	650734.33	4191206.46	195.55094	(17011121)
650784.33	4191206.46	224.90201	(17011121)	650834.33	4191206.46	261.34111	(17121322)
650884.33	4191206.46	296.46102	(17121322)	650934.33	4191206.46	351.64353	(17122608)
650984.33	4191206.46	477.49177	(17012717)	651034.33	4191206.46	441.73595	(17022508)
651084.33	4191206.46	386.18092	(15123109)	651134.33	4191206.46	395.14600	(14091107)
651184.33	4191206.46	833.71935	(17011609)	651234.33	4191206.46	538.00605	(14011317)
651284.33	4191206.46	401.16496	(13032807)	651334.33	4191206.46	299.50021	(14021120)
650334.33	4191256.46	89.68083	(17011121)	650384.33	4191256.46	95.81965	(17121322)
650434.33	4191256.46	102.48033	(17121322)	650484.33	4191256.46	109.47506	(17121322)
650534.33	4191256.46	116.64395	(17121322)	650584.33	4191256.46	123.66506	(17121322)
650634.33	4191256.46	132.83716	(17122608)	650684.33	4191256.46	150.77202	(17122608)
650734.33	4191256.46	168.94188	(17122608)	650784.33	4191256.46	184.40646	(17011201)
650834.33	4191256.46	201.72793	(17011201)	650884.33	4191256.46	210.10193	(17121402)
650934.33	4191256.46	230.48802	(16022908)	650984.33	4191256.46	321.35188	(17012717)
651034.33	4191256.46	322.56459	(17121401)	651084.33	4191256.46	308.98918	(17022508)
651134.33	4191256.46	349.74757	(13122919)	651184.33	4191256.46	801.87321	(17011609)
651234.33	4191256.46	459.91167	(15011209)	651284.33	4191256.46	363.09097	(13121617)
651334.33	4191256.46	311.78820	(14011317)	650334.33	4191306.46	80.28466	(17121322)
650384.33	4191306.46	84.65576	(17122608)	650434.33	4191306.46	92.94079	(17122608)
650484.33	4191306.46	101.36511	(17122608)	650534.33	4191306.46	109.53165	(17122608)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

650584.33	4191306.46	116.75690	(17122608)	650634.33	4191306.46	126.88522	(17011201)
650684.33	4191306.46	136.36615	(17011201)	650734.33	4191306.46	143.58729	(17121007)
650784.33	4191306.46	153.88965	(17020404)	650834.33	4191306.46	156.37790	(17121402)
650884.33	4191306.46	162.96560	(17122909)	650934.33	4191306.46	192.02723	(17120219)
650984.33	4191306.46	240.14361	(17012717)	651034.33	4191306.46	252.15840	(17012905)
651084.33	4191306.46	282.28035	(17022508)	651134.33	4191306.46	334.40603	(13011517)
651184.33	4191306.46	705.14956	(17011609)	651234.33	4191306.46	484.29455	(15011209)

651284.33	4191306.46	341.02378	(17013020)	651334.33	4191306.46	283.29122	(17121119)
650334.33	4191356.46	80.98879	(17122608)	650384.33	4191356.46	85.33348	(17122608)
650434.33	4191356.46	89.53616	(17011201)	650484.33	4191356.46	96.84438	(17011201)
650534.33	4191356.46	102.57055	(17011201)	650584.33	4191356.46	106.56474	(17121007)
650634.33	4191356.46	114.84558	(17020404)	650684.33	4191356.46	120.71759	(17020404)
650734.33	4191356.46	123.25964	(17121402)	650784.33	4191356.46	120.47072	(17122402)
650834.33	4191356.46	132.70830	(17122909)	650884.33	4191356.46	141.70541	(16022908)
650934.33	4191356.46	174.78583	(17012717)	650984.33	4191356.46	192.36601	(17012717)
651034.33	4191356.46	196.94977	(15011909)	651084.33	4191356.46	236.93239	(13011517)
651134.33	4191356.46	323.96082	(13011517)	651184.33	4191356.46	607.30580	(17011609)
651234.33	4191356.46	514.03122	(15011209)	651284.33	4191356.46	329.18249	(17120704)
651334.33	4191356.46	272.82325	(17122923)	650334.33	4191406.46	78.28528	(17011201)
650384.33	4191406.46	82.22571	(17011201)	650434.33	4191406.46	84.70362	(17011201)
650484.33	4191406.46	89.78847	(17121007)	650534.33	4191406.46	95.69216	(17020404)
650584.33	4191406.46	99.30497	(17020404)	650634.33	4191406.46	101.40530	(17121402)
650684.33	4191406.46	100.51867	(17121402)	650734.33	4191406.46	97.55636	(17122402)
650784.33	4191406.46	110.85184	(17122909)	650834.33	4191406.46	115.75369	(17122909)
650884.33	4191406.46	128.14453	(16022908)	650934.33	4191406.46	160.17710	(17012717)
650984.33	4191406.46	161.57142	(17012717)	651034.33	4191406.46	170.10365	(14021408)
651084.33	4191406.46	225.39097	(14021408)	651134.33	4191406.46	310.74582	(13011517)
651184.33	4191406.46	534.26598	(15012509)	651234.33	4191406.46	549.38469	(15011209)
651284.33	4191406.46	331.17834	(15123109)	651334.33	4191406.46	267.50802	(17122923)
650334.33	4191456.46	73.47821	(17121007)	650384.33	4191456.46	77.30655	(17121007)
650434.33	4191456.46	81.99373	(17020404)	650484.33	4191456.46	84.42162	(17020404)
650534.33	4191456.46	86.09558	(17121402)	650584.33	4191456.46	86.13333	(17121402)
650634.33	4191456.46	84.30224	(17122402)	650684.33	4191456.46	83.91446	(14110808)
650734.33	4191456.46	94.36817	(17122909)	650784.33	4191456.46	101.50765	(17122909)
650834.33	4191456.46	101.78480	(16022908)	650884.33	4191456.46	111.92623	(16022908)
650934.33	4191456.46	144.52906	(17012717)	650984.33	4191456.46	144.70397	(16010309)
651034.33	4191456.46	162.72058	(16010309)	651084.33	4191456.46	214.36921	(14021408)
651134.33	4191456.46	293.53971	(13011517)	651184.33	4191456.46	479.28972	(13122919)
651234.33	4191456.46	592.95443	(15011209)	651284.33	4191456.46	339.96263	(15123109)
651334.33	4191456.46	257.43621	(17120704)	650334.33	4191506.46	71.71844	(17020404)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE1 ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

650384.33	4191506.46	73.48329	(17020404)	650434.33	4191506.46	74.79796	(17121402)
650484.33	4191506.46	75.28942	(17121402)	650534.33	4191506.46	74.07814	(17121402)
650584.33	4191506.46	72.67170	(17122402)	650634.33	4191506.46	74.05766	(14110808)

650684.33	4191506.46	81.52980	(17122909)	650734.33	4191506.46	89.69008	(17122909)
650784.33	4191506.46	90.43880	(17122909)	650834.33	4191506.46	96.56391	(16022908)
650884.33	4191506.46	98.65901	(17012717)	650934.33	4191506.46	130.34502	(17012717)
650984.33	4191506.46	142.65272	(16010309)	651034.33	4191506.46	164.26902	(16010309)
651084.33	4191506.46	200.20762	(14021408)	651134.33	4191506.46	278.50253	(13011517)
651184.33	4191506.46	420.42711	(13122919)	651234.33	4191506.46	656.24645	(15011209)
651284.33	4191506.46	341.80626	(17011723)	651334.33	4191506.46	265.22503	(15123109)
650334.33	4191556.46	66.09582	(17121402)	650384.33	4191556.46	66.83919	(17121402)
650434.33	4191556.46	66.26940	(17121402)	650484.33	4191556.46	65.21016	(17122402)
650534.33	4191556.46	64.12314	(17120208)	650584.33	4191556.46	66.27130	(14110808)
650634.33	4191556.46	71.26704	(17122909)	650684.33	4191556.46	79.76351	(17122909)
650734.33	4191556.46	82.13855	(17122909)	650784.33	4191556.46	81.93571	(17122909)
650834.33	4191556.46	88.90381	(16022908)	650884.33	4191556.46	97.39938	(17012717)
650934.33	4191556.46	118.18548	(17012717)	650984.33	4191556.46	134.82508	(16010309)
651034.33	4191556.46	163.44100	(16010309)	651084.33	4191556.46	191.33578	(16010309)
651134.33	4191556.46	267.46980	(14021408)	651184.33	4191556.46	396.08994	(17012717)
651234.33	4191556.46	782.91159	(17011609)	651284.33	4191556.46	376.21215	(17022508)
651334.33	4191556.46	269.72218	(17022324)	650934.45	4191196.80	383.00412	(17121322)
650934.45	4191240.55	237.59493	(17121402)	651071.58	4191520.04	181.39313	(16010309)
650517.18	4191503.06	75.45951	(17121402)	650941.63	4190991.11	416.80527	(14021408)
650974.28	4190903.61	335.05939	(13122919)	650989.95	4190868.34	277.55960	(17011609)
651153.79	4190886.56	332.63173	(17011609)	651170.44	4190902.10	316.51446	(17011609)
651162.67	4190888.23	319.31517	(17011609)	651241.49	4191031.43	337.80141	(15011509)
650569.32	4190797.20	138.67433	(13010908)	650392.81	4190782.21	108.88745	(17120517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	91.75612	(17121108)	650384.33	4190556.46	101.23786	(16010309)
650434.33	4190556.46	108.00741	(16010309)	650484.33	4190556.46	114.44657	(15010507)
650534.33	4190556.46	129.13697	(15010507)	650584.33	4190556.46	142.78412	(13020205)
650634.33	4190556.46	155.70395	(17121508)	650684.33	4190556.46	169.75603	(15022608)
650734.33	4190556.46	199.07205	(17123007)	650784.33	4190556.46	210.95515	(17122918)
650834.33	4190556.46	212.21191	(13012005)	650884.33	4190556.46	215.29035	(15012509)
650934.33	4190556.46	207.86547	(17011609)	650984.33	4190556.46	217.82966	(17011609)
651034.33	4190556.46	181.67674	(17011609)	651084.33	4190556.46	164.19714	(17123009)
651134.33	4190556.46	150.84251	(17123009)	651184.33	4190556.46	132.27584	(17123009)
651234.33	4190556.46	118.48783	(15041307)	651284.33	4190556.46	115.79636	(15041307)
651334.33	4190556.46	106.69590	(15041307)	650334.33	4190606.46	90.36043	(13013108)
650384.33	4190606.46	97.83333	(17121108)	650434.33	4190606.46	109.02762	(16010309)

650484.33	4190606.46	117.06576	(16010309)	650534.33	4190606.46	126.52072	(15010507)
650584.33	4190606.46	142.08319	(13012423)	650634.33	4190606.46	160.56879	(13020205)
650684.33	4190606.46	172.39525	(15022608)	650734.33	4190606.46	198.44224	(17123007)
650784.33	4190606.46	224.43522	(17122918)	650834.33	4190606.46	231.32141	(14021105)
650884.33	4190606.46	233.55213	(14120620)	650934.33	4190606.46	227.97211	(14012501)
650984.33	4190606.46	237.05773	(17011609)	651034.33	4190606.46	198.33531	(17011609)
651084.33	4190606.46	171.83833	(17123009)	651134.33	4190606.46	157.67603	(17123009)
651184.33	4190606.46	138.10863	(17123009)	651234.33	4190606.46	119.56598	(15041307)
651284.33	4190606.46	116.62163	(15041307)	651334.33	4190606.46	106.83560	(15041307)
650334.33	4190656.46	87.18742	(13022803)	650384.33	4190656.46	95.72161	(13013108)
650434.33	4190656.46	105.20438	(13013108)	650484.33	4190656.46	118.10439	(16010309)
650534.33	4190656.46	127.78253	(16010309)	650584.33	4190656.46	140.88528	(15010507)
650634.33	4190656.46	157.90437	(13012423)	650684.33	4190656.46	179.99023	(13020205)
650734.33	4190656.46	200.07197	(15022608)	650784.33	4190656.46	239.53628	(17123007)
650834.33	4190656.46	251.56459	(17122918)	650884.33	4190656.46	259.87856	(16012703)
650934.33	4190656.46	253.44026	(15010901)	650984.33	4190656.46	259.31327	(17011609)
651034.33	4190656.46	217.20497	(17011609)	651084.33	4190656.46	179.86288	(17123009)
651134.33	4190656.46	165.28262	(17123009)	651184.33	4190656.46	144.46839	(17123009)
651234.33	4190656.46	120.73538	(15041307)	651284.33	4190656.46	117.49463	(15041307)
651334.33	4190656.46	106.95484	(15041307)	650334.33	4190706.46	86.67876	(15010804)
650384.33	4190706.46	93.38129	(13123102)	650434.33	4190706.46	101.57044	(13013108)
650484.33	4190706.46	113.68992	(13013108)	650534.33	4190706.46	128.83169	(16010309)
650584.33	4190706.46	140.65330	(16010309)	650634.33	4190706.46	158.23459	(15010507)
650684.33	4190706.46	181.14771	(13020205)	650734.33	4190706.46	203.92418	(17121508)
650784.33	4190706.46	239.44139	(17123007)	650834.33	4190706.46	278.28299	(17122918)
650884.33	4190706.46	284.65237	(13012005)	650934.33	4190706.46	285.99627	(15012509)
650984.33	4190706.46	285.61177	(17011609)	651034.33	4190706.46	238.70103	(17011609)
651084.33	4190706.46	188.35231	(17123009)	651134.33	4190706.46	173.84002	(17123009)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	151.41636	(17123009)	651234.33	4190706.46	122.78805	(15011509)
651284.33	4190706.46	118.42683	(15041307)	651334.33	4190706.46	107.04833	(15041307)
650334.33	4190756.46	84.63413	(14120904)	650384.33	4190756.46	91.93129	(15011205)
650434.33	4190756.46	100.00170	(15010804)	650484.33	4190756.46	107.95124	(13013108)
650534.33	4190756.46	123.45504	(13013108)	650584.33	4190756.46	141.72838	(16010309)
650634.33	4190756.46	156.38223	(16010309)	650684.33	4190756.46	179.48840	(15010507)
650734.33	4190756.46	211.07544	(13020205)	650784.33	4190756.46	240.06126	(15022608)
650834.33	4190756.46	297.63847	(17123007)	650884.33	4190756.46	317.37068	(14021105)

650934.33	4190756.46	323.53698	(15012509)	650984.33	4190756.46	317.57331	(17011609)
651034.33	4190756.46	263.31449	(17011609)	651084.33	4190756.46	197.58529	(17123009)
651134.33	4190756.46	183.51859	(17123009)	651184.33	4190756.46	159.03402	(17123009)
651234.33	4190756.46	127.94072	(15011509)	651284.33	4190756.46	119.43234	(15041307)
651334.33	4190756.46	108.15310	(17122917)	650334.33	4190806.46	84.28908	(17120517)
650384.33	4190806.46	89.42925	(17021403)	650434.33	4190806.46	97.71135	(15011205)
650484.33	4190806.46	107.48366	(15010804)	650534.33	4190806.46	117.81833	(13123102)
650584.33	4190806.46	134.81393	(13013108)	650634.33	4190806.46	157.56563	(16010309)
650684.33	4190806.46	175.99968	(16010309)	650734.33	4190806.46	205.80369	(15010507)
650784.33	4190806.46	246.29650	(13020205)	650834.33	4190806.46	297.98143	(17123007)
650884.33	4190806.46	357.62103	(17122918)	650934.33	4190806.46	367.90805	(16012703)
650984.33	4190806.46	357.90013	(17011609)	651034.33	4190806.46	291.56054	(17011609)
651084.33	4190806.46	216.68292	(17011609)	651134.33	4190806.46	194.43841	(17123009)
651184.33	4190806.46	167.43834	(17123009)	651234.33	4190806.46	133.60857	(15011509)
651284.33	4190806.46	121.54476	(17122917)	651334.33	4190806.46	111.47979	(17122917)
650334.33	4190856.46	84.44635	(17121504)	650384.33	4190856.46	90.85671	(17121504)
650434.33	4190856.46	96.50197	(17120517)	650484.33	4190856.46	103.98409	(17021403)
650534.33	4190856.46	115.94511	(15011205)	650584.33	4190856.46	129.39497	(13123102)
650634.33	4190856.46	148.19522	(13013108)	650684.33	4190856.46	177.54856	(16010309)
650734.33	4190856.46	201.06877	(16010309)	650784.33	4190856.46	243.91916	(13020205)
650834.33	4190856.46	294.01640	(15022608)	650884.33	4190856.46	386.66176	(17123007)
650934.33	4190856.46	425.56342	(13012120)	650984.33	4190856.46	411.24726	(17011609)
651034.33	4190856.46	323.78253	(17011609)	651084.33	4190856.46	242.97269	(17011609)
651134.33	4190856.46	206.65580	(17123009)	651184.33	4190856.46	176.79251	(17123009)
651234.33	4190856.46	139.90460	(15011509)	651284.33	4190856.46	126.35613	(17122917)
651334.33	4190856.46	114.98427	(17122917)	650334.33	4190906.46	83.47539	(17021308)
650384.33	4190906.46	89.33659	(17021420)	650434.33	4190906.46	96.31462	(17121504)
650484.33	4190906.46	105.28299	(17121504)	650534.33	4190906.46	113.01818	(17120517)
650584.33	4190906.46	125.50634	(14120904)	650634.33	4190906.46	142.82073	(15010804)
650684.33	4190906.46	164.16923	(13013108)	650734.33	4190906.46	203.67552	(16010309)
650784.33	4190906.46	234.20792	(15010507)	650834.33	4190906.46	302.83244	(13020205)
650884.33	4190906.46	387.09720	(17123007)	650934.33	4190906.46	483.71585	(14021105)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

650984.33	4190906.46	484.85322	(17011609)	651034.33	4190906.46	359.51437	(17011609)
651084.33	4190906.46	275.16685	(17011609)	651134.33	4190906.46	220.22224	(17123009)
651184.33	4190906.46	187.30184	(17123009)	651234.33	4190906.46	146.94614	(15011509)
651284.33	4190906.46	131.63095	(17122917)	651334.33	4190906.46	118.65323	(17122917)

650334.33 4190956.46 87.37399 (17021308) 650384.33 4190956.46 93.35202 (17021308)
650434.33 4190956.46 98.41859 (17021308) 650484.33 4190956.46 103.65457 (17021420)
650534.33 4190956.46 112.42516 (17121504) 650584.33 4190956.46 125.55552 (17121504)
650634.33 4190956.46 137.27948 (15010907) 650684.33 4190956.46 158.80100 (15011205)
650734.33 4190956.46 184.68390 (13123102) 650784.33 4190956.46 239.48539 (16010309)
650834.33 4190956.46 288.87167 (15010507) 650884.33 4190956.46 379.35684 (13020205)
650934.33 4190956.46 530.48758 (17123007) 650984.33 4190956.46 641.77797 (15012509)
651034.33 4190956.46 397.11241 (17011609) 651084.33 4190956.46 315.36562 (17011609)
651134.33 4190956.46 235.27782 (17123009) 651184.33 4190956.46 199.18669 (17123009)
651234.33 4190956.46 154.83205 (15011509) 651284.33 4190956.46 137.40018 (17122917)
651334.33 4190956.46 122.46090 (17122917) 650334.33 4191006.46 80.68241 (17021308)
650384.33 4191006.46 88.76370 (17021308) 650434.33 4191006.46 97.97224 (17021308)
650484.33 4191006.46 107.88653 (17021308) 650534.33 4191006.46 117.51713 (17021308)
650584.33 4191006.46 125.16530 (17021308) 650634.33 4191006.46 135.99359 (17021420)
650684.33 4191006.46 156.34046 (17121504) 650734.33 4191006.46 178.41233 (14120904)
650784.33 4191006.46 216.84904 (13123102) 650834.33 4191006.46 291.71726 (16010309)
650884.33 4191006.46 370.87462 (17020905) 650934.33 4191006.46 539.65409 (17123007)
650984.33 4191006.46 754.30275 (13012120) 651034.33 4191006.46 446.66346 (17011609)
651084.33 4191006.46 365.69186 (17011609) 651134.33 4191006.46 252.14938 (17123009)
651184.33 4191006.46 212.64670 (17123009) 651234.33 4191006.46 163.64349 (15011509)
651284.33 4191006.46 143.69891 (17122917) 651334.33 4191006.46 128.08828 (17011509)
650334.33 4191056.46 78.94681 (17011605) 650384.33 4191056.46 84.60971 (17011605)
650434.33 4191056.46 90.60669 (17011605) 650484.33 4191056.46 97.70038 (17013006)
650534.33 4191056.46 108.68919 (17021308) 650584.33 4191056.46 124.56114 (17021308)
650634.33 4191056.46 142.57003 (17021308) 650684.33 4191056.46 159.92796 (17021308)
650734.33 4191056.46 176.20533 (17021420) 650784.33 4191056.46 208.52595 (17121504)
650834.33 4191056.46 259.08220 (15011205) 650884.33 4191056.46 374.33932 (16010309)
650934.33 4191056.46 528.61722 (13020205) 650984.33 4191056.46 813.57148 (14012608)
651034.33 4191056.46 526.01537 (15012509) 651084.33 4191056.46 426.61601 (17011609)
651134.33 4191056.46 273.03104 (15011209) 651184.33 4191056.46 227.88250 (17123009)
651234.33 4191056.46 173.47297 (15011509) 651284.33 4191056.46 150.55974 (17122917)
651334.33 4191056.46 130.29393 (17122917) 650334.33 4191106.46 75.81916 (17022506)
650384.33 4191106.46 81.60358 (17022506) 650434.33 4191106.46 88.20333 (17022506)
650484.33 4191106.46 95.70745 (17022506) 650534.33 4191106.46 104.31763 (17011205)
650584.33 4191106.46 115.62532 (17011605) 650634.33 4191106.46 129.59573 (17011605)
650684.33 4191106.46 145.86264 (17013006) 650734.33 4191106.46 173.29736 (17021308)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***
INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 ,
L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 ,
L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 ,
L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- -

650784.33 4191106.46 214.74620 (17021308) 650834.33 4191106.46 251.45077 (17021308)
650884.33 4191106.46 319.19235 (17021403) 650934.33 4191106.46 516.85751 (16010309)
650984.33 4191106.46 867.06349 (13011517) 651034.33 4191106.46 664.87748 (15012509)
651084.33 4191106.46 499.37873 (17011609) 651134.33 4191106.46 311.15663 (17011609)
651184.33 4191106.46 245.19253 (17123009) 651234.33 4191106.46 184.58151 (17123009)
651284.33 4191106.46 157.99944 (17122917) 651334.33 4191106.46 134.16553 (17122917)
650334.33 4191156.46 73.93474 (17121420) 650384.33 4191156.46 79.10896 (17121420)
650434.33 4191156.46 85.12804 (17121420) 650484.33 4191156.46 92.21009 (17121420)
650534.33 4191156.46 100.65449 (17121420) 650584.33 4191156.46 110.87982 (17121420)
650634.33 4191156.46 123.48126 (17121420) 650684.33 4191156.46 139.31528 (17121420)
650734.33 4191156.46 159.60800 (17121420) 650784.33 4191156.46 188.43019 (15011009)
650834.33 4191156.46 233.59759 (17011205) 650884.33 4191156.46 303.57169 (17013006)
650934.33 4191156.46 440.84009 (17021308) 650984.33 4191156.46 791.05735 (14021408)
651034.33 4191156.46 833.39417 (14012608) 651084.33 4191156.46 587.83371 (17011609)
651134.33 4191156.46 361.60118 (17011609) 651184.33 4191156.46 264.98653 (17123009)
651234.33 4191156.46 197.27253 (17123009) 651284.33 4191156.46 166.00419 (17122917)
651334.33 4191156.46 138.02343 (17011203) 650334.33 4191206.46 73.95046 (17121203)
650384.33 4191206.46 78.88048 (17121203) 650434.33 4191206.46 84.51060 (17121203)
650484.33 4191206.46 91.01878 (17121203) 650534.33 4191206.46 98.64684 (17121203)
650584.33 4191206.46 107.72741 (17121203) 650634.33 4191206.46 118.72417 (17121203)
650684.33 4191206.46 132.29179 (17121203) 650734.33 4191206.46 151.23228 (17011121)
650784.33 4191206.46 176.64413 (17011121) 650834.33 4191206.46 210.98705 (17011121)
650884.33 4191206.46 256.51216 (17011121) 650934.33 4191206.46 327.55252 (17122608)
650984.33 4191206.46 616.49009 (17012717) 651034.33 4191206.46 630.84910 (13011517)
651084.33 4191206.46 714.12766 (17011609) 651134.33 4191206.46 422.92206 (17011609)
651184.33 4191206.46 288.18681 (15011209) 651234.33 4191206.46 211.46854 (17123009)
651284.33 4191206.46 174.51680 (17122917) 651334.33 4191206.46 142.58274 (14022208)
650334.33 4191256.46 73.46519 (17011121) 650384.33 4191256.46 78.16099 (17011121)
650434.33 4191256.46 83.29906 (17011121) 650484.33 4191256.46 88.92524 (17011121)
650534.33 4191256.46 95.11840 (17121322) 650584.33 4191256.46 102.12099 (17121322)
650634.33 4191256.46 110.78447 (17122608) 650684.33 4191256.46 125.21322 (17122608)
650734.33 4191256.46 141.36931 (17122608) 650784.33 4191256.46 157.61217 (17011201)
650834.33 4191256.46 179.90750 (17120706) 650884.33 4191256.46 205.23074 (17122609)
650934.33 4191256.46 269.12673 (16022908) 650984.33 4191256.46 407.05033 (17012717)
651034.33 4191256.46 469.69227 (14021408) 651084.33 4191256.46 948.79539 (15012509)
651134.33 4191256.46 497.33648 (17011609) 651184.33 4191256.46 317.32445 (15011209)
651234.33 4191256.46 227.51536 (15011209) 651284.33 4191256.46 183.42642 (17122917)
651334.33 4191256.46 147.59910 (17013024) 650334.33 4191306.46 69.07786 (17121322)
650384.33 4191306.46 72.46543 (17122608) 650434.33 4191306.46 78.89353 (17122608)
650484.33 4191306.46 85.57667 (17122608) 650534.33 4191306.46 92.38506 (17122608)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	99.01079	(17122608)	650634.33	4191306.46	108.02296	(17011201)
650684.33	4191306.46	116.33690	(17011201)	650734.33	4191306.46	129.92023	(17020404)
650784.33	4191306.46	142.49640	(17121402)	650834.33	4191306.46	151.73418	(17122909)
650884.33	4191306.46	188.35132	(17122909)	650934.33	4191306.46	230.90661	(17120219)
650984.33	4191306.46	303.09103	(17012717)	651034.33	4191306.46	376.34691	(14021408)
651084.33	4191306.46	813.58601	(13011517)	651134.33	4191306.46	593.36093	(17011609)
651184.33	4191306.46	351.23268	(15011209)	651234.33	4191306.46	246.81208	(15011209)
651284.33	4191306.46	192.55864	(17122917)	651334.33	4191306.46	158.32052	(14011317)
650334.33	4191356.46	69.32994	(17122608)	650384.33	4191356.46	73.19260	(17122608)
650434.33	4191356.46	77.39295	(17011201)	650484.33	4191356.46	83.07612	(17011201)
650534.33	4191356.46	87.87658	(17011201)	650584.33	4191356.46	94.89569	(17020404)
650634.33	4191356.46	102.97906	(17020404)	650684.33	4191356.46	110.07896	(17121402)
650734.33	4191356.46	113.33868	(17122402)	650784.33	4191356.46	121.73472	(17122909)
650834.33	4191356.46	150.46777	(17122909)	650884.33	4191356.46	166.46261	(16022908)
650934.33	4191356.46	210.29483	(17012717)	650984.33	4191356.46	249.29458	(17012717)
651034.33	4191356.46	309.49581	(14021408)	651084.33	4191356.46	567.21531	(13011517)
651134.33	4191356.46	724.58521	(17011609)	651184.33	4191356.46	392.12951	(15011209)
651234.33	4191356.46	268.65772	(15011209)	651284.33	4191356.46	201.68812	(17122917)
651334.33	4191356.46	157.33887	(17013024)	650334.33	4191406.46	67.79524	(17011201)
650384.33	4191406.46	71.10178	(17011201)	650434.33	4191406.46	74.34769	(17121007)
650484.33	4191406.46	80.53714	(17020404)	650534.33	4191406.46	85.61939	(17020404)
650584.33	4191406.46	90.19448	(17121402)	650634.33	4191406.46	92.90666	(17121402)
650684.33	4191406.46	93.69241	(17122402)	650734.33	4191406.46	100.43808	(17122909)
650784.33	4191406.46	124.29984	(17122909)	650834.33	4191406.46	132.47655	(17122909)
650884.33	4191406.46	153.91617	(16022908)	650934.33	4191406.46	195.10298	(17012717)
650984.33	4191406.46	219.54142	(17012717)	651034.33	4191406.46	270.36855	(16010309)
651084.33	4191406.46	434.97639	(14021408)	651134.33	4191406.46	922.37470	(15012509)
651184.33	4191406.46	447.75899	(17011609)	651234.33	4191406.46	293.70353	(15011209)
651284.33	4191406.46	210.65218	(17122917)	651334.33	4191406.46	167.52289	(17121119)
650334.33	4191456.46	65.17178	(17121007)	650384.33	4191456.46	69.90831	(17020404)
650434.33	4191456.46	73.47373	(17020404)	650484.33	4191456.46	76.60545	(17121402)
650534.33	4191456.46	78.97109	(17121402)	650584.33	4191456.46	79.67798	(17122402)
650634.33	4191456.46	80.98347	(14110808)	650684.33	4191456.46	85.70428	(14110808)
650734.33	4191456.46	105.04182	(17122909)	650784.33	4191456.46	114.61647	(17122909)
650834.33	4191456.46	119.20744	(16022908)	650884.33	4191456.46	137.89774	(16022908)
650934.33	4191456.46	178.86079	(17012717)	650984.33	4191456.46	200.23690	(17012717)
651034.33	4191456.46	237.55291	(16010309)	651084.33	4191456.46	351.77840	(14021408)
651134.33	4191456.46	778.16372	(13011517)	651184.33	4191456.46	549.67101	(17011609)
651234.33	4191456.46	322.55029	(15011209)	651284.33	4191456.46	220.08144	(17011203)
651334.33	4191456.46	178.51855	(17122923)	650334.33	4191506.46	64.47394	(17020404)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE2 ***

INCLUDING SOURCE(S): L0000175 , L0000176 , L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	66.65260	(17121402)	650434.33	4191506.46	68.77300	(17121402)
650484.33	4191506.46	69.64499	(17121402)	650534.33	4191506.46	69.98560	(17122402)
650584.33	4191506.46	71.87352	(14110808)	650634.33	4191506.46	75.67568	(17123024)
650684.33	4191506.46	90.27458	(17122909)	650734.33	4191506.46	100.27792	(17122909)
650784.33	4191506.46	102.55315	(17122909)	650834.33	4191506.46	115.20239	(16022908)
650884.33	4191506.46	124.76007	(16022908)	650934.33	4191506.46	164.99700	(17012717)
650984.33	4191506.46	185.92297	(17012717)	651034.33	4191506.46	220.91621	(17012717)
651084.33	4191506.46	300.59926	(14021408)	651134.33	4191506.46	531.28092	(13011517)
651184.33	4191506.46	698.33686	(17011609)	651234.33	4191506.46	355.65294	(15011209)
651284.33	4191506.46	230.54295	(17120704)	651334.33	4191506.46	187.84869	(17122923)
650334.33	4191556.46	60.96786	(17121402)	650384.33	4191556.46	61.95289	(17121402)
650434.33	4191556.46	62.25872	(17121402)	650484.33	4191556.46	62.60066	(17122402)
650534.33	4191556.46	64.54178	(14110808)	650584.33	4191556.46	68.13049	(15011009)
650634.33	4191556.46	78.58901	(17122909)	650684.33	4191556.46	88.53826	(17122909)
650734.33	4191556.46	92.07442	(17122909)	650784.33	4191556.46	93.77484	(13121509)
650834.33	4191556.46	108.45358	(16022908)	650884.33	4191556.46	117.40408	(17012717)
650934.33	4191556.46	153.75908	(17012717)	650984.33	4191556.46	174.47138	(17012717)
651034.33	4191556.46	207.28402	(17012717)	651084.33	4191556.46	263.84952	(17012717)
651134.33	4191556.46	424.51787	(13011517)	651184.33	4191556.46	956.31592	(17011609)
651234.33	4191556.46	393.98258	(15011209)	651284.33	4191556.46	260.26906	(15123109)
651334.33	4191556.46	196.63901	(17120704)	650934.45	4191196.80	356.37992	(17123101)
650934.45	4191240.55	268.98608	(16022908)	651071.58	4191520.04	261.12615	(17012717)
650517.18	4191503.06	70.36352	(17122402)	650941.63	4190991.11	574.31813	(17123007)
650974.28	4190903.61	504.96344	(15012509)	650989.95	4190868.34	426.61717	(17011609)
651153.79	4190886.56	202.92712	(17123009)	651170.44	4190902.10	195.95679	(17123009)
651162.67	4190888.23	197.76651	(17123009)	651241.49	4191031.43	164.16837	(15011509)
650569.32	4190797.20	130.53312	(13013108)	650392.81	4190782.21	91.95233	(15011205)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***
INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	65.16258	(15011205)	650384.33	4190556.46	67.87444	(15010804)
650434.33	4190556.46	69.70524	(13123102)	650484.33	4190556.46	73.45205	(13013108)

650534.33	4190556.46	80.62958	(16010309)	650584.33	4190556.46	86.55285	(16010309)
650634.33	4190556.46	89.28054	(16010309)	650684.33	4190556.46	94.21778	(16010309)
650734.33	4190556.46	105.71487	(16010309)	650784.33	4190556.46	123.57592	(16010309)
650834.33	4190556.46	144.44282	(16010309)	650884.33	4190556.46	165.69830	(16010309)
650934.33	4190556.46	232.75457	(14021408)	650984.33	4190556.46	345.18969	(13011517)
651034.33	4190556.46	750.60547	(17011609)	651084.33	4190556.46	364.26241	(15011209)
651134.33	4190556.46	238.90587	(17011203)	651184.33	4190556.46	187.73417	(17013024)
651234.33	4190556.46	166.62257	(17122318)	651284.33	4190556.46	147.92172	(17122318)
651334.33	4190556.46	132.15060	(17012903)	650334.33	4190606.46	66.75345	(13012121)
650384.33	4190606.46	70.11306	(15011205)	650434.33	4190606.46	73.13835	(15010804)
650484.33	4190606.46	75.19712	(13123102)	650534.33	4190606.46	79.61637	(13013108)
650584.33	4190606.46	88.86849	(16010309)	650634.33	4190606.46	93.80252	(16010309)
650684.33	4190606.46	95.51464	(16010309)	650734.33	4190606.46	101.55916	(16010309)
650784.33	4190606.46	116.86370	(16010309)	650834.33	4190606.46	140.03639	(16010309)
650884.33	4190606.46	167.26818	(16010309)	650934.33	4190606.46	209.02317	(14021408)
650984.33	4190606.46	319.14900	(13011517)	651034.33	4190606.46	612.66768	(13122919)
651084.33	4190606.46	393.08278	(15011209)	651134.33	4190606.46	247.29591	(17011203)
651184.33	4190606.46	194.00209	(17122701)	651234.33	4190606.46	174.46862	(17122318)
651284.33	4190606.46	152.10429	(17012903)	651334.33	4190606.46	132.89415	(17012903)
650334.33	4190656.46	69.01678	(15010907)	650384.33	4190656.46	71.73705	(17021403)
650434.33	4190656.46	75.82245	(15011205)	650484.33	4190656.46	79.36921	(15010804)
650534.33	4190656.46	81.80784	(13123102)	650584.33	4190656.46	86.94978	(13013108)
650634.33	4190656.46	98.44962	(16010309)	650684.33	4190656.46	101.79320	(16010309)
650734.33	4190656.46	102.24692	(16010309)	650784.33	4190656.46	110.34517	(16010309)
650834.33	4190656.46	131.10355	(16010309)	650884.33	4190656.46	161.38246	(16010309)
650934.33	4190656.46	198.51578	(16010309)	650984.33	4190656.46	291.19830	(14021408)
651034.33	4190656.46	505.26880	(14012608)	651084.33	4190656.46	425.60266	(15011209)
651134.33	4190656.46	262.91445	(15011209)	651184.33	4190656.46	207.74069	(17122318)
651234.33	4190656.46	179.21359	(17122318)	651284.33	4190656.46	154.40017	(17012903)
651334.33	4190656.46	136.02297	(17011208)	650334.33	4190706.46	73.29314	(17121504)
650384.33	4190706.46	75.15336	(17120517)	650434.33	4190706.46	78.10210	(17021403)
650484.33	4190706.46	82.43638	(14120904)	650534.33	4190706.46	86.79386	(15010804)
650584.33	4190706.46	89.89370	(13123102)	650634.33	4190706.46	97.47995	(16010309)
650684.33	4190706.46	109.69445	(16010309)	650734.33	4190706.46	110.57774	(16010309)
650784.33	4190706.46	109.57101	(16010309)	650834.33	4190706.46	121.38425	(16010309)
650884.33	4190706.46	149.86478	(16010309)	650934.33	4190706.46	189.80508	(16010309)
650984.33	4190706.46	246.38379	(14021408)	651034.33	4190706.46	456.47427	(13011517)
651084.33	4190706.46	488.38116	(17011609)	651134.33	4190706.46	286.64818	(15011209)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

651184.33	4190706.46	220.98764	(17122318)	651234.33	4190706.46	183.98982	(17012903)
651284.33	4190706.46	155.83219	(17011208)	651334.33	4190706.46	139.49241	(17011208)
650334.33	4190756.46	75.24473	(17121504)	650384.33	4190756.46	80.37315	(17121504)
650434.33	4190756.46	82.60994	(17120517)	650484.33	4190756.46	85.54526	(15010907)
650534.33	4190756.46	90.46181	(14120904)	650584.33	4190756.46	95.67244	(15010804)
650634.33	4190756.46	99.93631	(13123102)	650684.33	4190756.46	111.23573	(16010309)
650734.33	4190756.46	123.06309	(16010309)	650784.33	4190756.46	120.19843	(16010309)
650834.33	4190756.46	130.06673	(14021408)	650884.33	4190756.46	136.09083	(16010309)
650934.33	4190756.46	175.31289	(16010309)	650984.33	4190756.46	228.99050	(16010309)
651034.33	4190756.46	374.86142	(14021408)	651084.33	4190756.46	593.80505	(17011609)
651134.33	4190756.46	316.17120	(15011209)	651184.33	4190756.46	228.00443	(17122318)
651234.33	4190756.46	185.24823	(17012903)	651284.33	4190756.46	161.03547	(17011208)
651334.33	4190756.46	141.13975	(17011208)	650334.33	4190806.46	78.98058	(17021420)
650384.33	4190806.46	82.75088	(17021420)	650434.33	4190806.46	86.88033	(17121504)
650484.33	4190806.46	92.04446	(17121504)	650534.33	4190806.46	94.48543	(17120517)
650584.33	4190806.46	99.60030	(14120904)	650634.33	4190806.46	106.69655	(13020106)
650684.33	4190806.46	112.57890	(13123102)	650734.33	4190806.46	128.42866	(16010309)
650784.33	4190806.46	139.28255	(16010309)	650834.33	4190806.46	134.43268	(13020205)
650884.33	4190806.46	153.55959	(13011517)	650934.33	4190806.46	167.83640	(17012717)
650984.33	4190806.46	218.12976	(17012717)	651034.33	4190806.46	309.20947	(14122309)
651084.33	4190806.46	665.80463	(17012905)	651134.33	4190806.46	354.18437	(15011209)
651184.33	4190806.46	232.01391	(17012903)	651234.33	4190806.46	191.87386	(17011208)
651284.33	4190806.46	164.70536	(14121216)	651334.33	4190806.46	145.16476	(14121216)
650334.33	4190856.46	86.42950	(17021308)	650384.33	4190856.46	90.06495	(17021308)
650434.33	4190856.46	91.81867	(17021308)	650484.33	4190856.46	95.55403	(17021420)
650534.33	4190856.46	101.74259	(17121504)	650584.33	4190856.46	106.63648	(17121504)
650634.33	4190856.46	111.59265	(17021403)	650684.33	4190856.46	120.67532	(13020106)
650734.33	4190856.46	128.60906	(13123102)	650784.33	4190856.46	150.31700	(16010309)
650834.33	4190856.46	159.68266	(16010309)	650884.33	4190856.46	171.24067	(14021408)
650934.33	4190856.46	177.23357	(13122919)	650984.33	4190856.46	230.53450	(17011609)
651034.33	4190856.46	283.00236	(14122309)	651084.33	4190856.46	535.04528	(15011909)
651134.33	4190856.46	411.65872	(17011609)	651184.33	4190856.46	246.45361	(17120822)
651234.33	4190856.46	201.45820	(14121216)	651284.33	4190856.46	171.04255	(14121216)
651334.33	4190856.46	153.98180	(17011509)	650334.33	4190906.46	82.16372	(17021308)
650384.33	4190906.46	91.66373	(17021308)	650434.33	4190906.46	99.66358	(17021308)
650484.33	4190906.46	105.47168	(17021308)	650534.33	4190906.46	108.76959	(17021308)
650584.33	4190906.46	112.32371	(17021420)	650634.33	4190906.46	120.94229	(17121504)
650684.33	4190906.46	125.74086	(15010907)	650734.33	4190906.46	138.03114	(14120904)
650784.33	4190906.46	148.80885	(13123102)	650834.33	4190906.46	178.69281	(16010309)
650884.33	4190906.46	187.14399	(16010309)	650934.33	4190906.46	216.06090	(13011517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	283.08615	(17011609)	651034.33	4190906.46	259.84237	(14122309)
651084.33	4190906.46	430.42455	(15011909)	651134.33	4190906.46	523.06740	(17011609)
651184.33	4190906.46	274.87514	(15011209)	651234.33	4190906.46	209.79289	(14121216)
651284.33	4190906.46	185.48462	(17011509)	651334.33	4190906.46	171.44493	(17011509)
650334.33	4190956.46	83.59218	(17011605)	650384.33	4190956.46	88.26945	(17013006)
650434.33	4190956.46	95.33645	(17121823)	650484.33	4190956.46	104.46495	(17021308)
650534.33	4190956.46	116.60032	(17021308)	650584.33	4190956.46	125.75988	(17021308)
650634.33	4190956.46	131.38823	(17021308)	650684.33	4190956.46	136.40196	(17013022)
650734.33	4190956.46	145.79842	(17121504)	650784.33	4190956.46	158.79442	(14120904)
650834.33	4190956.46	174.50676	(15011202)	650884.33	4190956.46	215.99601	(16010309)
650934.33	4190956.46	246.22090	(14021408)	650984.33	4190956.46	357.63436	(17011609)
651034.33	4190956.46	294.62355	(17013024)	651084.33	4190956.46	362.78601	(15011909)
651134.33	4190956.46	700.34885	(17121401)	651184.33	4190956.46	317.37631	(15011209)
651234.33	4190956.46	224.92354	(17122318)	651284.33	4190956.46	199.11458	(17011509)
651334.33	4190956.46	184.51756	(17011509)	650334.33	4191006.46	85.15583	(17022506)
650384.33	4191006.46	90.92274	(17011605)	650434.33	4191006.46	98.07894	(17011605)
650484.33	4191006.46	104.55861	(17011605)	650534.33	4191006.46	111.60213	(17013006)
650584.33	4191006.46	121.59208	(17121823)	650634.33	4191006.46	139.42286	(17021308)
650684.33	4191006.46	153.81979	(17021308)	650734.33	4191006.46	162.16411	(17021308)
650784.33	4191006.46	170.76983	(17013022)	650834.33	4191006.46	185.28751	(14120904)
650884.33	4191006.46	216.28962	(16010309)	650934.33	4191006.46	265.74168	(16010309)
650984.33	4191006.46	399.84385	(17011609)	651034.33	4191006.46	297.98181	(17122318)
651084.33	4191006.46	316.88442	(15011909)	651134.33	4191006.46	582.69429	(17012905)
651184.33	4191006.46	377.99089	(17022508)	651234.33	4191006.46	242.95248	(17122318)
651284.33	4191006.46	217.00969	(17011509)	651334.33	4191006.46	208.19027	(17011509)
650334.33	4191056.46	85.63040	(17121807)	650384.33	4191056.46	90.75315	(17121807)
650434.33	4191056.46	98.28163	(17022506)	650484.33	4191056.46	106.54605	(17022506)
650534.33	4191056.46	114.54504	(17022506)	650584.33	4191056.46	125.35680	(17011605)
650634.33	4191056.46	137.10358	(17011605)	650684.33	4191056.46	149.88274	(17013006)
650734.33	4191056.46	173.47709	(17021308)	650784.33	4191056.46	197.66954	(17021308)
650834.33	4191056.46	208.86991	(17013022)	650884.33	4191056.46	227.22639	(15021923)
650934.33	4191056.46	283.04185	(16010309)	650984.33	4191056.46	402.32787	(17011609)
651034.33	4191056.46	275.89402	(14060906)	651084.33	4191056.46	284.44050	(15011909)
651134.33	4191056.46	429.85107	(17012905)	651184.33	4191056.46	542.20587	(17022508)
651234.33	4191056.46	273.54924	(14121216)	651284.33	4191056.46	253.81679	(17011509)
651334.33	4191056.46	235.18254	(17011509)	650334.33	4191106.46	83.38775	(17013008)
650384.33	4191106.46	88.89437	(17013008)	650434.33	4191106.46	96.64461	(17121420)
650484.33	4191106.46	105.47628	(17121420)	650534.33	4191106.46	115.27422	(17121420)
650584.33	4191106.46	126.03056	(17121420)	650634.33	4191106.46	137.72312	(17121807)
650684.33	4191106.46	156.01832	(17022506)	650734.33	4191106.46	174.86142	(17011205)

*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop *** 12/20/23

*** AERMET - VERSION 18081 *** *** *** 19:55:06

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 ,

L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 ,
L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	200.70982	(17011605)	650834.33	4191106.46	231.14220	(17021308)
650884.33	4191106.46	277.98749	(17021308)	650934.33	4191106.46	296.22888	(17013022)
650984.33	4191106.46	419.30087	(17012717)	651034.33	4191106.46	290.74001	(14060906)
651084.33	4191106.46	261.56275	(15011909)	651134.33	4191106.46	350.01521	(15011909)
651184.33	4191106.46	749.42951	(17121401)	651234.33	4191106.46	316.95952	(17011509)
651284.33	4191106.46	284.16563	(17011509)	651334.33	4191106.46	204.24690	(17121906)
650334.33	4191156.46	87.58918	(17121203)	650384.33	4191156.46	93.47163	(17121203)
650434.33	4191156.46	100.11307	(17121203)	650484.33	4191156.46	107.89965	(17011505)
650534.33	4191156.46	117.13996	(17011505)	650584.33	4191156.46	127.92253	(17011505)
650634.33	4191156.46	140.62403	(17011505)	650684.33	4191156.46	155.70953	(17011505)
650734.33	4191156.46	173.69401	(17011505)	650784.33	4191156.46	204.66464	(17121420)
650834.33	4191156.46	248.56814	(17121420)	650884.33	4191156.46	305.31182	(17022506)
650934.33	4191156.46	385.14809	(17121304)	650984.33	4191156.46	553.07530	(17012717)
651034.33	4191156.46	332.91067	(13040307)	651084.33	4191156.46	305.44876	(14060906)
651134.33	4191156.46	320.29394	(15011909)	651184.33	4191156.46	534.91386	(17012905)
651234.33	4191156.46	400.37357	(17022508)	651284.33	4191156.46	291.62806	(14012017)
651334.33	4191156.46	233.08788	(17122621)	650334.33	4191206.46	88.46124	(17011121)
650384.33	4191206.46	94.58619	(17011121)	650434.33	4191206.46	101.52974	(17011121)
650484.33	4191206.46	109.50077	(17011121)	650534.33	4191206.46	118.79652	(17011121)
650584.33	4191206.46	129.84565	(17011121)	650634.33	4191206.46	143.27221	(17011121)
650684.33	4191206.46	159.99296	(17011121)	650734.33	4191206.46	181.37096	(17011121)
650784.33	4191206.46	209.45541	(17011121)	650834.33	4191206.46	247.24306	(17011121)
650884.33	4191206.46	299.98192	(17121322)	650934.33	4191206.46	361.38958	(17122608)
650984.33	4191206.46	556.28460	(17012717)	651034.33	4191206.46	410.65162	(17122702)
651084.33	4191206.46	391.55196	(13022208)	651134.33	4191206.46	410.84862	(14011317)
651184.33	4191206.46	531.64634	(17012905)	651234.33	4191206.46	499.92357	(17022508)
651284.33	4191206.46	307.34959	(14021120)	651334.33	4191206.46	237.34626	(14021603)
650334.33	4191256.46	85.91163	(17121322)	650384.33	4191256.46	90.65340	(17121322)
650434.33	4191256.46	95.76136	(17121322)	650484.33	4191256.46	101.47724	(17122608)
650534.33	4191256.46	111.42467	(17122608)	650584.33	4191256.46	122.86140	(17122608)
650634.33	4191256.46	136.20324	(17122608)	650684.33	4191256.46	151.76984	(17122608)
650734.33	4191256.46	169.27006	(17122608)	650784.33	4191256.46	189.33302	(17011201)
650834.33	4191256.46	214.85891	(17011201)	650884.33	4191256.46	234.26333	(17020404)
650934.33	4191256.46	253.74489	(16022908)	650984.33	4191256.46	401.06485	(17012924)
651034.33	4191256.46	334.11641	(15011909)	651084.33	4191256.46	297.83115	(15011909)
651134.33	4191256.46	335.14216	(15011909)	651184.33	4191256.46	434.41225	(17012905)
651234.33	4191256.46	471.95269	(17022508)	651284.33	4191256.46	277.24185	(17022508)
651334.33	4191256.46	215.32492	(14011317)	650334.33	4191306.46	85.07848	(17122608)
650384.33	4191306.46	91.06585	(17122608)	650434.33	4191306.46	97.25583	(17122608)
650484.33	4191306.46	103.51656	(17122608)	650534.33	4191306.46	111.34129	(17011201)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	122.03460	(17011201)	650634.33	4191306.46	132.78998	(17011201)
650684.33	4191306.46	141.81049	(17011201)	650734.33	4191306.46	156.98430	(17020404)
650784.33	4191306.46	170.79047	(17020404)	650834.33	4191306.46	176.80556	(17121402)
650884.33	4191306.46	190.73756	(17122909)	650934.33	4191306.46	238.41945	(17012717)
650984.33	4191306.46	317.82785	(17012924)	651034.33	4191306.46	296.91446	(17012720)
651084.33	4191306.46	262.09059	(17012720)	651134.33	4191306.46	287.89994	(17012720)
651184.33	4191306.46	354.41927	(17012905)	651234.33	4191306.46	395.67398	(17121401)
651284.33	4191306.46	308.89558	(17022508)	651334.33	4191306.46	199.24643	(17021405)
650334.33	4191356.46	84.29871	(17011201)	650384.33	4191356.46	90.47082	(17011201)
650434.33	4191356.46	96.35817	(17011201)	650484.33	4191356.46	101.47341	(17011201)
650534.33	4191356.46	107.97595	(17121007)	650584.33	4191356.46	117.41896	(17020404)
650634.33	4191356.46	126.79695	(17020404)	650684.33	4191356.46	132.41150	(17121402)
650734.33	4191356.46	135.29057	(17121402)	650784.33	4191356.46	134.16489	(17122909)
650834.33	4191356.46	157.81521	(17122909)	650884.33	4191356.46	170.57771	(17120219)
650934.33	4191356.46	230.32654	(17012717)	650984.33	4191356.46	265.51806	(17012924)
651034.33	4191356.46	266.24578	(17012720)	651084.33	4191356.46	241.17255	(17012720)
651134.33	4191356.46	259.47057	(17012720)	651184.33	4191356.46	296.07614	(17012905)
651234.33	4191356.46	327.74278	(17120207)	651284.33	4191356.46	299.57335	(17022508)
651334.33	4191356.46	205.75393	(17022508)	650334.33	4191406.46	81.59029	(17011201)
650384.33	4191406.46	87.56410	(17121007)	650434.33	4191406.46	93.63513	(17020404)
650484.33	4191406.46	100.35448	(17020404)	650534.33	4191406.46	105.11517	(17020404)
650584.33	4191406.46	108.29271	(17121402)	650634.33	4191406.46	108.76707	(17121402)
650684.33	4191406.46	106.09978	(17120208)	650734.33	4191406.46	114.90941	(17122909)
650784.33	4191406.46	134.53144	(17122909)	650834.33	4191406.46	142.01550	(17122909)
650884.33	4191406.46	166.32282	(17120219)	650934.33	4191406.46	213.35228	(17012717)
650984.33	4191406.46	229.98928	(17012924)	651034.33	4191406.46	237.70164	(17012720)
651084.33	4191406.46	224.76571	(17012720)	651134.33	4191406.46	236.63787	(17012720)
651184.33	4191406.46	253.70700	(17012905)	651234.33	4191406.46	288.87128	(17120207)
651284.33	4191406.46	264.04759	(17022508)	651334.33	4191406.46	220.60332	(17022508)
650334.33	4191456.46	82.60308	(17020404)	650384.33	4191456.46	86.75322	(17020404)
650434.33	4191456.46	88.90653	(17020404)	650484.33	4191456.46	91.25670	(17121402)
650534.33	4191456.46	90.60353	(17121402)	650584.33	4191456.46	88.48041	(17043004)
650634.33	4191456.46	94.29806	(17120208)	650684.33	4191456.46	100.47829	(17123024)
650734.33	4191456.46	117.06719	(17122909)	650784.33	4191456.46	125.10958	(17122909)
650834.33	4191456.46	130.38500	(17022607)	650884.33	4191456.46	151.21873	(17120219)
650934.33	4191456.46	195.12607	(17012717)	650984.33	4191456.46	204.25706	(17012924)
651034.33	4191456.46	213.34751	(17012720)	651084.33	4191456.46	210.76872	(17012720)
651134.33	4191456.46	217.78321	(17012720)	651184.33	4191456.46	222.40149	(17012905)
651234.33	4191456.46	253.56684	(17120207)	651284.33	4191456.46	237.82205	(17121401)
651334.33	4191456.46	219.14166	(17022508)	650334.33	4191506.46	77.18911	(17121402)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE3 ***

INCLUDING SOURCE(S): L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 , L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 , L0000349 , L0000350 , L0000351 , L0000352 , L0000353 , L0000354 , L0000355 , L0000356 , L0000357 , L0000358 , L0000359 , L0000360 , L0000361 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	78.57659	(17121402)	650434.33	4191506.46	77.43755	(17121402)
650484.33	4191506.46	76.91513	(17043004)	650534.33	4191506.46	80.11693	(17120208)
650584.33	4191506.46	83.81667	(17120208)	650634.33	4191506.46	90.11289	(17123024)
650684.33	4191506.46	103.44840	(17122909)	650734.33	4191506.46	111.40627	(17122909)
650784.33	4191506.46	112.11002	(17122724)	650834.33	4191506.46	129.08186	(17120219)
650884.33	4191506.46	147.62850	(17012717)	650934.33	4191506.46	178.42780	(17012717)
650984.33	4191506.46	184.68449	(17012924)	651034.33	4191506.46	194.85001	(17122408)
651084.33	4191506.46	198.10760	(17012720)	651134.33	4191506.46	201.91791	(17012720)
651184.33	4191506.46	198.66349	(17012905)	651234.33	4191506.46	225.63136	(17012905)
651284.33	4191506.46	216.98212	(17121401)	651334.33	4191506.46	205.55781	(17022508)
650334.33	4191556.46	67.47482	(17043004)	650384.33	4191556.46	67.99802	(17043004)
650434.33	4191556.46	68.67456	(17120208)	650484.33	4191556.46	73.04344	(17120208)
650534.33	4191556.46	76.61258	(17123024)	650584.33	4191556.46	81.40203	(17123024)
650634.33	4191556.46	92.51062	(17122909)	650684.33	4191556.46	100.09034	(17122909)
650734.33	4191556.46	100.64383	(17122909)	650784.33	4191556.46	107.09157	(17022607)
650834.33	4191556.46	123.19054	(17120219)	650884.33	4191556.46	144.03007	(17012717)
650934.33	4191556.46	163.90075	(17012717)	650984.33	4191556.46	169.22377	(17012924)
651034.33	4191556.46	180.17664	(17122408)	651084.33	4191556.46	186.37249	(17012720)
651134.33	4191556.46	188.33352	(17012720)	651184.33	4191556.46	179.89995	(17012905)
651234.33	4191556.46	204.14608	(17012905)	651284.33	4191556.46	195.24273	(17121401)
651334.33	4191556.46	186.46144	(17022508)	650934.45	4191196.80	404.66941	(17011121)
650934.45	4191240.55	272.52323	(17120706)	651071.58	4191520.04	194.80475	(17012720)
650517.18	4191503.06	78.10459	(17120208)	650941.63	4190991.11	264.55966	(16010309)
650974.28	4190903.61	273.02511	(17011609)	650989.95	4190868.34	234.74911	(17011609)
651153.79	4190886.56	362.62429	(15011209)	651170.44	4190902.10	319.51172	(15011209)
651162.67	4190888.23	333.48754	(15011209)	651241.49	4191031.43	251.04468	(14121216)
650569.32	4190797.20	97.06854	(17021403)	650392.81	4190782.21	81.83154	(17121504)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 ,

L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	66.76278	(15011205)	650384.33	4190556.46	70.55922	(15010804)
650434.33	4190556.46	73.44059	(13123102)	650484.33	4190556.46	79.94445	(13013108)
650534.33	4190556.46	90.77710	(16010309)	650584.33	4190556.46	99.49807	(16010309)
650634.33	4190556.46	102.97803	(16010309)	650684.33	4190556.46	105.85107	(16010309)
650734.33	4190556.46	117.60769	(14021408)	650784.33	4190556.46	139.92445	(14021408)
650834.33	4190556.46	162.99667	(13011517)	650884.33	4190556.46	201.99440	(13011517)
650934.33	4190556.46	281.07156	(17012717)	650984.33	4190556.46	547.64453	(17011609)
651034.33	4190556.46	579.67339	(17123009)	651084.33	4190556.46	356.90959	(17122917)
651134.33	4190556.46	263.08628	(17013024)	651184.33	4190556.46	208.75202	(17122318)
651234.33	4190556.46	183.33222	(17122318)	651284.33	4190556.46	158.29634	(17012903)
651334.33	4190556.46	137.63268	(17020801)	650334.33	4190606.46	67.43634	(13012121)
650384.33	4190606.46	72.01255	(15011205)	650434.33	4190606.46	76.39322	(15010804)
650484.33	4190606.46	79.87476	(13123102)	650534.33	4190606.46	87.32321	(13013108)
650584.33	4190606.46	100.99534	(16010309)	650634.33	4190606.46	109.38558	(16010309)
650684.33	4190606.46	112.04766	(16010309)	650734.33	4190606.46	117.30399	(15013104)
650784.33	4190606.46	139.53737	(14021408)	650834.33	4190606.46	161.91353	(14021408)
650884.33	4190606.46	195.76111	(13011517)	650934.33	4190606.46	267.70668	(17012717)
650984.33	4190606.46	447.32610	(17011609)	651034.33	4190606.46	656.59042	(17123009)
651084.33	4190606.46	379.47704	(17122917)	651134.33	4190606.46	272.41617	(17013024)
651184.33	4190606.46	223.19862	(17122318)	651234.33	4190606.46	189.54384	(17012903)
651284.33	4190606.46	160.92665	(17020801)	651334.33	4190606.46	140.36004	(17011208)
650334.33	4190656.46	68.84933	(15010907)	650384.33	4190656.46	72.78433	(17021403)
650434.33	4190656.46	77.95657	(15011205)	650484.33	4190656.46	83.21176	(15010804)
650534.33	4190656.46	87.57768	(13123102)	650584.33	4190656.46	96.12550	(13013108)
650634.33	4190656.46	113.07349	(16010309)	650684.33	4190656.46	120.73415	(16010309)
650734.33	4190656.46	122.44838	(16010309)	650784.33	4190656.46	137.85651	(14021408)
650834.33	4190656.46	163.09437	(14021408)	650884.33	4190656.46	192.35315	(13011517)
650934.33	4190656.46	255.76073	(17012717)	650984.33	4190656.46	390.46463	(17011609)
651034.33	4190656.46	759.95528	(17123009)	651084.33	4190656.46	398.98358	(17122917)
651134.33	4190656.46	282.89294	(17122701)	651184.33	4190656.46	234.04779	(17122318)
651234.33	4190656.46	194.01680	(17012903)	651284.33	4190656.46	161.26007	(17011208)
651334.33	4190656.46	138.44713	(17011208)	650334.33	4190706.46	72.82451	(17121504)
650384.33	4190706.46	75.30244	(17120517)	650434.33	4190706.46	78.98832	(17021403)
650484.33	4190706.46	84.94743	(14120904)	650534.33	4190706.46	91.20909	(15010804)
650584.33	4190706.46	96.91689	(13123102)	650634.33	4190706.46	108.63079	(16010309)
650684.33	4190706.46	127.52577	(16010309)	650734.33	4190706.46	133.89237	(16010309)
650784.33	4190706.46	137.63787	(15013104)	650834.33	4190706.46	165.86220	(14021408)
650884.33	4190706.46	192.33511	(13011517)	650934.33	4190706.46	245.19591	(17012717)
650984.33	4190706.46	355.12611	(17011609)	651034.33	4190706.46	861.53218	(17123009)
651084.33	4190706.46	415.06659	(17122917)	651134.33	4190706.46	289.57842	(17122701)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	237.49278	(17012903)	651234.33	4190706.46	194.91357	(17020801)
651284.33	4190706.46	166.13078	(17011208)	651334.33	4190706.46	140.68383	(17012908)
650334.33	4190756.46	73.57963	(17021420)	650384.33	4190756.46	78.78902	(17121504)
650434.33	4190756.46	82.89551	(17121504)	650484.33	4190756.46	86.36376	(15010907)
650534.33	4190756.46	93.01587	(14120904)	650584.33	4190756.46	100.60123	(15010804)
650634.33	4190756.46	108.38971	(13123102)	650684.33	4190756.46	124.78931	(16010309)
650734.33	4190756.46	145.10460	(16010309)	650784.33	4190756.46	149.38624	(16010309)
650834.33	4190756.46	167.32930	(14021408)	650884.33	4190756.46	196.62553	(13011517)
650934.33	4190756.46	236.03621	(17012717)	650984.33	4190756.46	330.77534	(17011609)
651034.33	4190756.46	800.93529	(17011609)	651084.33	4190756.46	431.33628	(17011203)
651134.33	4190756.46	310.76882	(17122318)	651184.33	4190756.46	246.51043	(17012903)
651234.33	4190756.46	199.15873	(17011208)	651284.33	4190756.46	165.13058	(13012517)
651334.33	4190756.46	145.40220	(17012908)	650334.33	4190806.46	79.28516	(17021308)
650384.33	4190806.46	80.77434	(17021420)	650434.33	4190806.46	84.47134	(17021420)
650484.33	4190806.46	91.51034	(17121504)	650534.33	4190806.46	95.53914	(17121504)
650584.33	4190806.46	102.54669	(17021403)	650634.33	4190806.46	112.65299	(13020106)
650684.33	4190806.46	122.64796	(13123102)	650734.33	4190806.46	145.20080	(16010309)
650784.33	4190806.46	166.99957	(16010309)	650834.33	4190806.46	168.53687	(15013104)
650884.33	4190806.46	205.95027	(14021408)	650934.33	4190806.46	234.24336	(13011517)
650984.33	4190806.46	319.50118	(17011609)	651034.33	4190806.46	789.61114	(17011609)
651084.33	4190806.46	448.62218	(17013024)	651134.33	4190806.46	324.59900	(17122318)
651184.33	4190806.46	241.87232	(17020801)	651234.33	4190806.46	198.34372	(13012517)
651284.33	4190806.46	168.17982	(17012908)	651334.33	4190806.46	144.12103	(15021508)
650334.33	4190856.46	81.83115	(17021308)	650384.33	4190856.46	87.86708	(17021308)
650434.33	4190856.46	92.32996	(17021308)	650484.33	4190856.46	95.04250	(17021308)
650534.33	4190856.46	99.32591	(17013022)	650584.33	4190856.46	107.95199	(17121504)
650634.33	4190856.46	114.28453	(15010907)	650684.33	4190856.46	127.33824	(14120904)
650734.33	4190856.46	140.47443	(13123102)	650784.33	4190856.46	171.53633	(16010309)
650834.33	4190856.46	195.31691	(16010309)	650884.33	4190856.46	215.34248	(14021408)
650934.33	4190856.46	250.98075	(13011517)	650984.33	4190856.46	326.25227	(17011609)
651034.33	4190856.46	676.11547	(17011609)	651084.33	4190856.46	460.21639	(17013024)
651134.33	4190856.46	327.13524	(17012903)	651184.33	4190856.46	249.09725	(17011208)
651234.33	4190856.46	196.80808	(17012908)	651284.33	4190856.46	167.49224	(15021508)
651334.33	4190856.46	163.83844	(17011509)	650334.33	4190906.46	77.65936	(17121823)
650384.33	4190906.46	83.04941	(17121823)	650434.33	4190906.46	93.22056	(17021308)
650484.33	4190906.46	102.28352	(17021308)	650534.33	4190906.46	109.47047	(17021308)
650584.33	4190906.46	114.55138	(17021308)	650634.33	4190906.46	120.21391	(17013022)
650684.33	4190906.46	129.78754	(17121504)	650734.33	4190906.46	144.94019	(14120904)
650784.33	4190906.46	162.62458	(13123102)	650834.33	4190906.46	206.23242	(16010309)
650884.33	4190906.46	234.34506	(16010309)	650934.33	4190906.46	280.83049	(13011517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	359.13043	(17011609)	651034.33	4190906.46	567.82203	(15011909)
651084.33	4190906.46	472.07006	(17122318)	651134.33	4190906.46	318.54946	(17011208)
651184.33	4190906.46	245.31303	(13012517)	651234.33	4190906.46	203.23151	(17011509)
651284.33	4190906.46	194.36953	(17011509)	651334.33	4190906.46	179.73764	(17011509)
650334.33	4190956.46	79.39510	(17011605)	650384.33	4190956.46	84.77919	(17011605)
650434.33	4190956.46	89.81089	(17011605)	650484.33	4190956.46	96.58791	(17013006)
650534.33	4190956.46	107.15108	(17021308)	650584.33	4190956.46	120.74468	(17021308)
650634.33	4190956.46	132.10251	(17021308)	650684.33	4190956.46	141.34953	(17021308)
650734.33	4190956.46	150.21052	(17013022)	650784.33	4190956.46	165.15419	(14120904)
650834.33	4190956.46	191.74136	(16122205)	650884.33	4190956.46	252.67072	(16010309)
650934.33	4190956.46	300.71042	(14021408)	650984.33	4190956.46	421.20360	(17011609)
651034.33	4190956.46	518.29266	(14122309)	651084.33	4190956.46	474.32932	(17022508)
651134.33	4190956.46	319.86653	(17022508)	651184.33	4190956.46	252.05842	(17011509)
651234.33	4190956.46	227.69587	(17011509)	651284.33	4190956.46	203.23587	(17011509)
651334.33	4190956.46	171.03189	(17011509)	650334.33	4191006.46	78.88070	(17022506)
650384.33	4191006.46	84.94823	(17022506)	650434.33	4191006.46	91.09533	(17022506)
650484.33	4191006.46	98.13551	(17011205)	650534.33	4191006.46	106.36981	(17011605)
650584.33	4191006.46	115.10812	(17011605)	650634.33	4191006.46	126.35463	(17013006)
650684.33	4191006.46	145.40409	(17021308)	650734.33	4191006.46	162.29560	(17021308)
650784.33	4191006.46	177.22306	(17021308)	650834.33	4191006.46	195.28736	(17021308)
650884.33	4191006.46	240.05613	(16010309)	650934.33	4191006.46	315.63069	(16010309)
650984.33	4191006.46	456.58679	(17011609)	651034.33	4191006.46	499.42544	(14122309)
651084.33	4191006.46	502.91807	(17012905)	651134.33	4191006.46	330.34705	(17022508)
651184.33	4191006.46	264.82332	(17011509)	651234.33	4191006.46	230.94501	(17011509)
651284.33	4191006.46	181.75588	(17011509)	651334.33	4191006.46	133.05079	(17121906)
650334.33	4191056.46	78.58414	(17121420)	650384.33	4191056.46	84.78836	(17121420)
650434.33	4191056.46	91.59324	(17121420)	650484.33	4191056.46	99.03934	(17121420)
650534.33	4191056.46	107.17080	(17121420)	650584.33	4191056.46	116.05237	(17121420)
650634.33	4191056.46	128.61355	(15011009)	650684.33	4191056.46	142.99359	(15011009)
650734.33	4191056.46	159.12709	(15011009)	650784.33	4191056.46	183.28345	(17021308)
650834.33	4191056.46	206.24937	(17021308)	650884.33	4191056.46	237.74761	(15011009)
650934.33	4191056.46	319.57175	(16010309)	650984.33	4191056.46	461.76400	(17011609)
651034.33	4191056.46	486.07484	(14122309)	651084.33	4191056.46	556.77280	(17012905)
651134.33	4191056.46	337.24474	(17022508)	651184.33	4191056.46	267.09918	(17011509)
651234.33	4191056.46	185.32094	(17011509)	651284.33	4191056.46	150.36481	(14012017)
651334.33	4191056.46	131.93275	(14012017)	650334.33	4191106.46	81.19869	(17121203)
650384.33	4191106.46	86.69331	(17121203)	650434.33	4191106.46	92.87517	(17121203)
650484.33	4191106.46	99.85641	(17121203)	650534.33	4191106.46	107.76732	(17121203)
650584.33	4191106.46	116.75724	(17121203)	650634.33	4191106.46	126.99954	(17122906)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	183.80347	(15011009)	650834.33	4191106.46	214.97256	(15011009)
650884.33	4191106.46	255.91583	(17021308)	650934.33	4191106.46	306.67521	(15032607)
650984.33	4191106.46	563.30984	(17012717)	651034.33	4191106.46	476.21319	(14122309)
651084.33	4191106.46	611.88238	(17012905)	651134.33	4191106.46	340.43740	(17022508)
651184.33	4191106.46	247.95592	(17022508)	651234.33	4191106.46	181.02987	(17022508)
651284.33	4191106.46	157.29853	(14022208)	651334.33	4191106.46	140.03601	(14022208)
650334.33	4191156.46	82.94523	(17011121)	650384.33	4191156.46	88.87664	(17011121)
650434.33	4191156.46	95.54580	(17011121)	650484.33	4191156.46	103.07980	(17011121)
650534.33	4191156.46	111.64458	(17011121)	650584.33	4191156.46	121.46978	(17011121)
650634.33	4191156.46	132.89453	(17011121)	650684.33	4191156.46	146.44753	(17011121)
650734.33	4191156.46	162.97131	(17011121)	650784.33	4191156.46	183.76500	(17011121)
650834.33	4191156.46	212.63813	(17121203)	650884.33	4191156.46	261.66297	(17122906)
650934.33	4191156.46	352.30979	(15011009)	650984.33	4191156.46	723.06739	(17012717)
651034.33	4191156.46	482.48344	(14122309)	651084.33	4191156.46	609.90459	(17012905)
651134.33	4191156.46	340.49052	(17022508)	651184.33	4191156.46	249.40635	(17022508)
651234.33	4191156.46	189.86363	(14022208)	651284.33	4191156.46	161.82177	(14022208)
651334.33	4191156.46	141.09441	(14022208)	650334.33	4191206.46	81.41036	(17121322)
650384.33	4191206.46	86.16854	(17121322)	650434.33	4191206.46	91.34746	(17121322)
650484.33	4191206.46	99.33496	(17122608)	650534.33	4191206.46	109.50614	(17122608)
650584.33	4191206.46	120.77417	(17122608)	650634.33	4191206.46	133.33053	(17122608)
650684.33	4191206.46	147.66842	(17122608)	650734.33	4191206.46	164.79072	(17122608)
650784.33	4191206.46	186.24224	(17122608)	650834.33	4191206.46	216.50655	(17120706)
650884.33	4191206.46	264.01733	(17120706)	650934.33	4191206.46	346.36560	(17122909)
650984.33	4191206.46	656.59084	(17012717)	651034.33	4191206.46	570.16228	(14122309)
651084.33	4191206.46	567.11275	(17012905)	651134.33	4191206.46	334.77907	(17022508)
651184.33	4191206.46	248.72026	(17022508)	651234.33	4191206.46	191.26705	(17022508)
651284.33	4191206.46	158.19978	(14011317)	651334.33	4191206.46	136.58548	(14011317)
650334.33	4191256.46	82.07990	(17122608)	650384.33	4191256.46	88.13107	(17122608)
650434.33	4191256.46	94.36789	(17122608)	650484.33	4191256.46	101.24158	(17011201)
650534.33	4191256.46	111.27580	(17011201)	650584.33	4191256.46	121.47240	(17011201)
650634.33	4191256.46	131.53075	(17011201)	650684.33	4191256.46	147.65615	(17020404)
650734.33	4191256.46	165.57906	(17020404)	650784.33	4191256.46	185.41697	(17121402)
650834.33	4191256.46	200.31671	(17122609)	650884.33	4191256.46	261.87555	(17122909)
650934.33	4191256.46	341.49588	(17120219)	650984.33	4191256.46	495.47604	(17012924)
651034.33	4191256.46	519.36482	(17012720)	651084.33	4191256.46	488.19809	(17012905)

651134.33	4191256.46	325.31124	(17121401)	651184.33	4191256.46	247.73735	(17022508)
651234.33	4191256.46	193.40150	(17022508)	651284.33	4191256.46	149.35638	(17022508)
651334.33	4191256.46	133.98520	(14011317)	650334.33	4191306.46	82.63209	(17011201)
650384.33	4191306.46	88.79907	(17011201)	650434.33	4191306.46	94.46835	(17011201)
650484.33	4191306.46	100.89216	(17121007)	650534.33	4191306.46	111.11256	(17020404)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	122.01316	(17020404)	650634.33	4191306.46	130.84755	(17121402)
650684.33	4191306.46	138.97236	(17121402)	650734.33	4191306.46	140.24864	(17122609)
650784.33	4191306.46	160.94960	(17123024)	650834.33	4191306.46	207.09348	(17122909)
650884.33	4191306.46	237.01650	(17122724)	650934.33	4191306.46	310.57364	(17120219)
650984.33	4191306.46	413.71546	(17012924)	651034.33	4191306.46	465.36864	(17012720)
651084.33	4191306.46	409.56383	(17012905)	651134.33	4191306.46	314.66393	(17121401)
651184.33	4191306.46	246.52106	(17022508)	651234.33	4191306.46	195.02157	(17022508)
651284.33	4191306.46	153.80918	(17022508)	651334.33	4191306.46	131.41230	(17121119)
650334.33	4191356.46	81.29187	(17121007)	650384.33	4191356.46	87.60989	(17121007)
650434.33	4191356.46	95.38674	(17020404)	650484.33	4191356.46	101.75151	(17020404)
650534.33	4191356.46	106.63980	(17121402)	650584.33	4191356.46	109.85019	(17121402)
650634.33	4191356.46	108.81660	(17043004)	650684.33	4191356.46	120.86033	(17120208)
650734.33	4191356.46	136.84159	(17123024)	650784.33	4191356.46	169.81562	(17122909)
650834.33	4191356.46	185.92033	(17122909)	650884.33	4191356.46	229.20597	(17120219)
650934.33	4191356.46	299.01435	(17012717)	650984.33	4191356.46	359.45155	(17012924)
651034.33	4191356.46	408.18595	(17012720)	651084.33	4191356.46	348.92274	(17012905)
651134.33	4191356.46	301.88953	(17012905)	651184.33	4191356.46	242.61216	(17022508)
651234.33	4191356.46	196.49237	(17022508)	651284.33	4191356.46	157.41671	(17022508)
651334.33	4191356.46	127.75930	(17122923)	650334.33	4191406.46	82.54333	(17020404)
650384.33	4191406.46	85.97861	(17020404)	650434.33	4191406.46	89.17358	(17121402)
650484.33	4191406.46	90.19295	(17121402)	650534.33	4191406.46	90.44101	(17043004)
650584.33	4191406.46	96.42464	(17120208)	650634.33	4191406.46	104.72513	(17123024)
650684.33	4191406.46	117.18955	(17123024)	650734.33	4191406.46	143.15870	(17122909)
650784.33	4191406.46	155.44540	(17122909)	650834.33	4191406.46	175.00464	(17122724)
650884.33	4191406.46	220.82912	(17120219)	650934.33	4191406.46	278.99460	(17012717)
650984.33	4191406.46	316.28285	(17120618)	651034.33	4191406.46	358.07794	(17012720)
651084.33	4191406.46	302.16696	(13020121)	651134.33	4191406.46	286.55481	(17012905)
651184.33	4191406.46	231.81303	(17022508)	651234.33	4191406.46	197.03201	(17022508)
651284.33	4191406.46	160.50544	(17022508)	651334.33	4191406.46	127.89231	(17022508)
650334.33	4191456.46	76.18822	(17121402)	650384.33	4191456.46	76.15508	(17121402)
650434.33	4191456.46	77.28417	(17043004)	650484.33	4191456.46	79.03882	(17120208)

650534.33	4191456.46	85.97713 (17120208)	650584.33	4191456.46	94.09272 (17123024)
650634.33	4191456.46	102.70272 (17122909)	650684.33	4191456.46	123.31899 (17122909)
650734.33	4191456.46	133.13521 (17122909)	650784.33	4191456.46	146.14886 (17122724)
650834.33	4191456.46	172.26961 (17120219)	650884.33	4191456.46	193.73265 (17120219)
650934.33	4191456.46	254.04754 (17012717)	650984.33	4191456.46	280.37860 (17120618)
651034.33	4191456.46	316.36293 (17012720)	651084.33	4191456.46	270.10553 (13020121)
651134.33	4191456.46	266.94857 (17012905)	651184.33	4191456.46	222.14824 (17121401)
651234.33	4191456.46	194.68386 (17022508)	651284.33	4191456.46	162.95677 (17022508)
651334.33	4191456.46	132.17676 (17022508)	650334.33	4191506.46	67.35502 (17043004)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE4 ***

INCLUDING SOURCE(S): L0000545 , L0000546 , L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650384.33	4191506.46	66.62647 (17120624)	650434.33	4191506.46	72.61805 (17120208)
650484.33	4191506.46	76.14987 (17120208)	650534.33	4191506.46	84.73702 (17123024)
650584.33	4191506.46	91.80526 (17122909)	650634.33	4191506.46	108.05955 (17122909)
650684.33	4191506.46	116.13513 (17122909)	650734.33	4191506.46	122.82771 (17122724)
650784.33	4191506.46	140.92699 (17022607)	650834.33	4191506.46	168.84271 (17120219)
650884.33	4191506.46	192.33985 (17012717)	650934.33	4191506.46	227.42433 (17012717)
650984.33	4191506.46	249.16835 (17120618)	651034.33	4191506.46	281.94511 (17012720)
651084.33	4191506.46	247.12485 (17012720)	651134.33	4191506.46	245.25653 (17012905)
651184.33	4191506.46	209.61681 (17121401)	651234.33	4191506.46	187.62617 (17022508)
651284.33	4191506.46	164.00752 (17022508)	651334.33	4191506.46	135.82390 (17022508)
650334.33	4191556.46	62.22135 (17120208)	650384.33	4191556.46	66.21019 (17120208)
650434.33	4191556.46	70.29428 (17123024)	650484.33	4191556.46	76.54751 (17123024)
650534.33	4191556.46	82.93966 (17122909)	650584.33	4191556.46	96.00932 (17122909)
650634.33	4191556.46	102.77088 (17122909)	650684.33	4191556.46	105.16907 (16111008)
650734.33	4191556.46	117.81036 (17122724)	650784.33	4191556.46	137.71324 (17120219)
650834.33	4191556.46	153.81746 (17120219)	650884.33	4191556.46	186.56111 (17012717)
650934.33	4191556.46	201.29003 (17012717)	650984.33	4191556.46	222.08448 (17120618)
651034.33	4191556.46	253.40416 (17012720)	651084.33	4191556.46	228.11419 (17012720)
651134.33	4191556.46	222.92312 (17012905)	651184.33	4191556.46	200.48016 (17120207)
651234.33	4191556.46	175.77230 (17121401)	651284.33	4191556.46	162.53773 (17022508)
651334.33	4191556.46	138.57278 (17022508)	650934.45	4191196.80	343.27360 (17122909)
650934.45	4191240.55	336.58909 (17120219)	651071.58	4191520.04	261.06999 (17012720)
650517.18	4191503.06	81.95311 (17123024)	650941.63	4190991.11	325.00013 (16010309)
650974.28	4190903.61	333.10715 (17011609)	650989.95	4190868.34	340.65733 (17011609)
651153.79	4190886.56	288.72894 (17011208)	651170.44	4190902.10	264.44029 (13012517)
651162.67	4190888.23	275.97075 (17011208)	651241.49	4191031.43	209.96517 (17011509)
650569.32	4190797.20	99.68212 (17021403)	650392.81	4190782.21	79.11336 (17021420)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	222.91698	(13010906)	650384.33	4190556.46	239.30251	(13013108)
650434.33	4190556.46	250.30874	(16010309)	650484.33	4190556.46	261.41720	(16010309)
650534.33	4190556.46	268.09368	(15010507)	650584.33	4190556.46	280.37560	(13020205)
650634.33	4190556.46	281.94663	(14021408)	650684.33	4190556.46	304.95839	(17123007)
650734.33	4190556.46	308.93609	(14021105)	650784.33	4190556.46	332.82477	(17011609)
650834.33	4190556.46	381.25155	(17011609)	650884.33	4190556.46	381.77937	(17123009)
650934.33	4190556.46	370.45164	(17123009)	650984.33	4190556.46	384.46774	(17122917)
651034.33	4190556.46	375.28047	(17013024)	651084.33	4190556.46	369.84239	(17122318)
651134.33	4190556.46	369.20255	(17012903)	651184.33	4190556.46	361.42762	(17020801)
651234.33	4190556.46	331.71527	(17120120)	651284.33	4190556.46	302.91862	(17011508)
651334.33	4190556.46	305.85386	(17012908)	650334.33	4190606.46	236.97484	(15010804)
650384.33	4190606.46	248.44045	(13010906)	650434.33	4190606.46	266.23417	(13013108)
650484.33	4190606.46	282.05561	(16010309)	650534.33	4190606.46	290.63535	(16010309)
650584.33	4190606.46	299.51850	(15010507)	650634.33	4190606.46	312.87207	(13020205)
650684.33	4190606.46	324.98552	(17123007)	650734.33	4190606.46	334.44341	(14012608)
650784.33	4190606.46	349.25191	(17011609)	650834.33	4190606.46	417.08697	(17011609)
650884.33	4190606.46	415.01660	(17123009)	650934.33	4190606.46	406.21401	(17123009)
650984.33	4190606.46	420.68996	(17122917)	651034.33	4190606.46	415.93254	(17122701)
651084.33	4190606.46	417.73233	(17122318)	651134.33	4190606.46	402.93669	(17012903)
651184.33	4190606.46	377.85261	(17020801)	651234.33	4190606.46	353.46669	(17120120)
651284.33	4190606.46	346.36490	(17012908)	651334.33	4190606.46	308.60175	(17012908)
650334.33	4190656.46	250.11199	(13012121)	650384.33	4190656.46	264.80886	(13010908)
650434.33	4190656.46	279.41033	(13022803)	650484.33	4190656.46	298.33919	(13013108)
650534.33	4190656.46	320.12714	(16010309)	650584.33	4190656.46	325.17773	(16010309)
650634.33	4190656.46	336.06681	(17020905)	650684.33	4190656.46	348.85702	(14021408)
650734.33	4190656.46	367.06227	(14012608)	650784.33	4190656.46	375.03183	(13012120)
650834.33	4190656.46	455.38441	(17011609)	650884.33	4190656.46	452.58525	(17123009)
650934.33	4190656.46	448.73294	(17123009)	650984.33	4190656.46	460.26736	(17122917)
651034.33	4190656.46	453.67229	(17122701)	651084.33	4190656.46	461.62732	(17012903)
651134.33	4190656.46	453.05520	(17020801)	651184.33	4190656.46	419.62041	(17120120)
651234.33	4190656.46	394.27295	(17012908)	651284.33	4190656.46	360.52779	(17012908)
651334.33	4190656.46	329.60213	(17122320)	650334.33	4190706.46	273.90748	(17120517)
650384.33	4190706.46	280.44741	(17021403)	650434.33	4190706.46	299.64117	(15011205)
650484.33	4190706.46	316.74223	(13022803)	650534.33	4190706.46	337.01576	(13013108)
650584.33	4190706.46	366.14907	(16010309)	650634.33	4190706.46	367.01259	(16010309)
650684.33	4190706.46	385.24903	(13020205)	650734.33	4190706.46	405.93116	(13011517)

650784.33	4190706.46	413.46309	(14021105)	650834.33	4190706.46	496.26891	(17011609)
650884.33	4190706.46	500.86737	(17011609)	650934.33	4190706.46	500.04641	(17123009)
650984.33	4190706.46	515.11612	(17013024)	651034.33	4190706.46	527.32950	(17122318)
651084.33	4190706.46	520.61178	(17012903)	651134.33	4190706.46	485.46685	(17011208)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	450.33897	(17012908)	651234.33	4190706.46	427.83010	(17012908)
651284.33	4190706.46	394.82166	(17122320)	651334.33	4190706.46	385.60696	(17122320)
650334.33	4190756.46	290.79711	(17121504)	650384.33	4190756.46	311.61164	(17121504)
650434.33	4190756.46	323.41010	(17120517)	650484.33	4190756.46	339.88492	(13012121)
650534.33	4190756.46	362.69134	(15010804)	650584.33	4190756.46	384.14929	(13013108)
650634.33	4190756.46	422.27664	(16010309)	650684.33	4190756.46	419.84736	(16010309)
650734.33	4190756.46	444.41272	(14021408)	650784.33	4190756.46	464.48248	(13011517)
650834.33	4190756.46	540.04270	(17011609)	650884.33	4190756.46	576.84661	(17011609)
650934.33	4190756.46	562.84199	(17123009)	650984.33	4190756.46	590.42165	(17013024)
651034.33	4190756.46	606.00899	(17122318)	651084.33	4190756.46	589.12987	(17020801)
651134.33	4190756.46	526.17468	(17120120)	651184.33	4190756.46	516.95706	(17012908)
651234.33	4190756.46	479.97866	(17122320)	651284.33	4190756.46	455.27468	(17121219)
651334.33	4190756.46	453.52855	(17011509)	650334.33	4190806.46	310.50207	(17021308)
650384.33	4190806.46	333.62368	(17021420)	650434.33	4190806.46	352.63344	(17121504)
650484.33	4190806.46	377.90884	(17121504)	650534.33	4190806.46	391.36102	(15010907)
650584.33	4190806.46	419.20590	(15011205)	650634.33	4190806.46	442.33149	(13013108)
650684.33	4190806.46	491.65378	(16010309)	650734.33	4190806.46	491.16700	(16010309)
650784.33	4190806.46	526.39183	(13011517)	650834.33	4190806.46	587.86854	(17011609)
650884.33	4190806.46	667.47707	(17011609)	650934.33	4190806.46	654.13982	(17120822)
650984.33	4190806.46	683.40524	(17122701)	651034.33	4190806.46	707.46807	(17012903)
651084.33	4190806.46	662.50852	(17120120)	651134.33	4190806.46	637.09201	(17012908)
651184.33	4190806.46	594.05531	(17122320)	651234.33	4190806.46	551.68079	(17121219)
651284.33	4190806.46	567.20574	(17011509)	651334.33	4190806.46	486.41341	(17011509)
650334.33	4190856.46	333.62282	(17021308)	650384.33	4190856.46	371.35990	(17021308)
650434.33	4190856.46	397.62929	(17021308)	650484.33	4190856.46	412.55352	(17021420)
650534.33	4190856.46	437.10947	(17121504)	650584.33	4190856.46	471.08090	(17121504)
650634.33	4190856.46	495.73028	(14120904)	650684.33	4190856.46	528.30188	(16010309)
650734.33	4190856.46	580.07810	(16010309)	650784.33	4190856.46	595.63650	(16010309)
650834.33	4190856.46	644.55312	(17011609)	650884.33	4190856.46	777.92334	(17011609)
650934.33	4190856.46	783.75952	(17120822)	650984.33	4190856.46	841.86171	(17122318)
651034.33	4190856.46	826.29889	(17011208)	651084.33	4190856.46	799.11636	(17012908)
651134.33	4190856.46	752.02570	(17122320)	651184.33	4190856.46	749.98131	(17011509)

651234.33	4190856.46	677.12559	(17011509)	651284.33	4190856.46	495.53809	(17011509)
651334.33	4190856.46	397.36220	(17122619)	650334.33	4190906.46	337.16859	(17011605)
650384.33	4190906.46	363.66724	(17012823)	650434.33	4190906.46	402.71639	(17121823)
650484.33	4190906.46	455.15502	(17021308)	650534.33	4190906.46	513.86488	(17021308)
650584.33	4190906.46	557.04509	(17021308)	650634.33	4190906.46	576.70294	(17021420)
650684.33	4190906.46	612.69742	(17121504)	650734.33	4190906.46	652.70252	(16010309)
650784.33	4190906.46	702.93953	(16010309)	650834.33	4190906.46	757.11268	(16010309)
650884.33	4190906.46	907.67233	(17011609)	650934.33	4190906.46	982.21332	(17122917)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	1042.88726	(17012903)	651034.33	4190906.46	1010.25254	(17012908)
651084.33	4190906.46	979.26362	(17122320)	651134.33	4190906.46	1006.29055	(17011509)
651184.33	4190906.46	729.68615	(17011509)	651234.33	4190906.46	548.49819	(17121906)
651284.33	4190906.46	461.74790	(17020824)	651334.33	4190906.46	392.80581	(17011303)
650334.33	4190956.46	354.95086	(17022506)	650384.33	4190956.46	390.64501	(17022506)
650434.33	4190956.46	428.17877	(17022506)	650484.33	4190956.46	472.54526	(17011605)
650534.33	4190956.46	530.18128	(17011605)	650584.33	4190956.46	590.78247	(17011605)
650634.33	4190956.46	662.18852	(17121823)	650684.33	4190956.46	779.52818	(17021308)
650734.33	4190956.46	884.88250	(17021308)	650784.33	4190956.46	908.45721	(17021308)
650834.33	4190956.46	944.29467	(15021923)	650884.33	4190956.46	1021.09099	(13011517)
650934.33	4190956.46	1292.41593	(17013024)	650984.33	4190956.46	1380.59350	(13012517)
651034.33	4190956.46	1508.73716	(17011509)	651084.33	4190956.46	1222.76839	(17011509)
651134.33	4190956.46	841.87518	(17020824)	651184.33	4190956.46	663.21498	(17011303)
651234.33	4190956.46	558.24098	(17121319)	651284.33	4190956.46	463.95006	(17010504)
651334.33	4190956.46	409.67921	(17122519)	650334.33	4191006.46	356.29157	(17013008)
650384.33	4191006.46	391.62988	(17013008)	650434.33	4191006.46	432.90938	(17013008)
650484.33	4191006.46	487.23713	(17121420)	650534.33	4191006.46	553.14386	(17121420)
650584.33	4191006.46	634.57262	(17121420)	650634.33	4191006.46	741.16873	(17121420)
650684.33	4191006.46	893.51636	(17121420)	650734.33	4191006.46	1129.79715	(17121420)
650784.33	4191006.46	1492.01389	(17121420)	650834.33	4191006.46	1798.67567	(15011009)
650884.33	4191006.46	2073.40848	(15011009)	650934.33	4191006.46	2019.69185	(14122809)
650984.33	4191006.46	2568.98016	(14012017)	651034.33	4191006.46	1907.88305	(17122519)
651084.33	4191006.46	1196.88593	(17122621)	651134.33	4191006.46	874.55780	(17122621)
651184.33	4191006.46	687.90696	(17122621)	651234.33	4191006.46	565.60662	(17122621)
651284.33	4191006.46	478.59806	(17122621)	651334.33	4191006.46	413.15474	(17122621)
650334.33	4191056.46	372.89963	(17121203)	650384.33	4191056.46	413.80927	(17013107)
650434.33	4191056.46	462.76014	(17013107)	650484.33	4191056.46	520.17955	(17013107)
650534.33	4191056.46	587.07871	(17013107)	650584.33	4191056.46	680.38584	(17011121)

650634.33	4191056.46	808.70246	(17011121)	650684.33	4191056.46	960.40484	(17121322)
650734.33	4191056.46	1179.31829	(17122608)	650784.33	4191056.46	1444.80246	(17122702)
650834.33	4191056.46	1315.09779	(13022208)	650884.33	4191056.46	1492.46342	(14110808)
650934.33	4191056.46	1142.63509	(14012217)	650984.33	4191056.46	992.60282	(17013020)
651034.33	4191056.46	1082.06274	(14011317)	651084.33	4191056.46	943.10152	(13032807)
651134.33	4191056.46	766.98726	(14010519)	651184.33	4191056.46	638.41244	(14022208)
651234.33	4191056.46	562.21305	(14022208)	651284.33	4191056.46	492.93952	(14022208)
651334.33	4191056.46	433.52142	(14022208)	650334.33	4191106.46	384.04403	(17121322)
650384.33	4191106.46	425.49898	(17121322)	650434.33	4191106.46	469.93467	(17121322)
650484.33	4191106.46	516.00276	(17121322)	650534.33	4191106.46	561.54510	(17121322)
650584.33	4191106.46	679.51679	(17122608)	650634.33	4191106.46	798.81627	(17122608)
650684.33	4191106.46	939.14990	(17011201)	650734.33	4191106.46	1088.84975	(17020404)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	1306.04627	(17122402)	650834.33	4191106.46	1455.79572	(15030108)
650884.33	4191106.46	1421.78617	(17122909)	650934.33	4191106.46	1140.76967	(15021908)
650984.33	4191106.46	787.18827	(15021908)	651034.33	4191106.46	712.07615	(17122923)
651084.33	4191106.46	679.49057	(17121119)	651134.33	4191106.46	643.68351	(14011317)
651184.33	4191106.46	548.89364	(15010823)	651234.33	4191106.46	489.95151	(13032807)
651284.33	4191106.46	431.40484	(13032807)	651334.33	4191106.46	381.32585	(14010519)
650334.33	4191156.46	348.28747	(17122608)	650384.33	4191156.46	402.30115	(17122608)
650434.33	4191156.46	456.72482	(17122608)	650484.33	4191156.46	510.81704	(17011201)
650534.33	4191156.46	601.14841	(17011201)	650584.33	4191156.46	674.16636	(17121007)
650634.33	4191156.46	793.25120	(17020404)	650684.33	4191156.46	885.91480	(17121402)
650734.33	4191156.46	950.59293	(17122609)	650784.33	4191156.46	1035.07347	(17122909)
650834.33	4191156.46	1128.79366	(17122909)	650884.33	4191156.46	1166.88808	(17012717)
650934.33	4191156.46	939.59273	(17022508)	650984.33	4191156.46	706.63300	(17122923)
651034.33	4191156.46	598.72929	(17122923)	651084.33	4191156.46	558.86283	(17122923)
651134.33	4191156.46	526.30470	(17121119)	651184.33	4191156.46	478.30630	(14011317)
651234.33	4191156.46	453.35837	(14011317)	651284.33	4191156.46	399.72937	(14011317)
651334.33	4191156.46	357.97374	(15010317)	650334.33	4191206.46	364.80704	(17011201)
650384.33	4191206.46	414.31930	(17011201)	650434.33	4191206.46	450.10355	(17011201)
650484.33	4191206.46	515.61339	(17121007)	650534.33	4191206.46	582.38579	(17020404)
650584.33	4191206.46	617.71052	(17121402)	650634.33	4191206.46	638.72850	(17122609)
650684.33	4191206.46	675.96809	(17120208)	650734.33	4191206.46	768.29397	(17122909)
650784.33	4191206.46	822.70754	(17122909)	650834.33	4191206.46	811.55665	(17022607)
650884.33	4191206.46	867.15932	(17012717)	650934.33	4191206.46	729.71076	(17012905)
650984.33	4191206.46	649.14884	(17022508)	651034.33	4191206.46	544.49051	(17120704)

651084.33	4191206.46	500.44801	(17122923)	651134.33	4191206.46	459.57379	(17122923)
651184.33	4191206.46	437.44901	(17121119)	651234.33	4191206.46	396.38229	(13121617)
651284.33	4191206.46	363.07921	(13020908)	651334.33	4191206.46	343.86825	(14011317)
650334.33	4191256.46	362.33462	(17121007)	650384.33	4191256.46	401.23598	(17121007)
650434.33	4191256.46	443.57906	(17020404)	650484.33	4191256.46	457.78445	(17121402)
650534.33	4191256.46	475.20668	(17043004)	650584.33	4191256.46	471.16667	(17120624)
650634.33	4191256.46	523.18042	(17123024)	650684.33	4191256.46	586.43332	(17122909)
650734.33	4191256.46	647.76808	(17122909)	650784.33	4191256.46	635.52902	(17122724)
650834.33	4191256.46	664.15901	(17012717)	650884.33	4191256.46	652.14155	(17012717)
650934.33	4191256.46	599.61946	(17012905)	650984.33	4191256.46	597.25559	(17022508)
651034.33	4191256.46	503.47991	(17022706)	651084.33	4191256.46	444.30960	(17120704)
651134.33	4191256.46	423.17799	(17122923)	651184.33	4191256.46	389.96967	(17122923)
651234.33	4191256.46	374.25733	(17121119)	651284.33	4191256.46	343.30821	(17121119)
651334.33	4191256.46	312.22877	(13121617)	650334.33	4191306.46	349.87374	(17020404)
650384.33	4191306.46	355.86506	(17121402)	650434.33	4191306.46	371.54701	(17043004)
650484.33	4191306.46	363.88378	(17043004)	650534.33	4191306.46	386.27591	(17120208)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	428.63174	(17123024)	650634.33	4191306.46	462.15319	(17122909)
650684.33	4191306.46	525.85511	(17122909)	650734.33	4191306.46	529.49314	(17122724)
650784.33	4191306.46	558.58469	(17120219)	650834.33	4191306.46	586.22267	(17012717)
650884.33	4191306.46	536.63284	(17012924)	650934.33	4191306.46	509.84971	(17012905)
650984.33	4191306.46	526.63586	(17022508)	651034.33	4191306.46	455.94500	(17022508)
651084.33	4191306.46	422.51796	(17022706)	651134.33	4191306.46	378.45060	(17122321)
651184.33	4191306.46	360.49615	(17122923)	651234.33	4191306.46	337.05224	(17122923)
651284.33	4191306.46	320.10611	(17121119)	651334.33	4191306.46	305.72308	(17121119)
650334.33	4191356.46	298.84515	(17043004)	650384.33	4191356.46	302.34590	(17043004)
650434.33	4191356.46	299.64615	(17120624)	650484.33	4191356.46	320.23811	(17120208)
650534.33	4191356.46	357.30678	(17123024)	650584.33	4191356.46	374.41800	(17122909)
650634.33	4191356.46	435.16257	(17122909)	650684.33	4191356.46	429.83471	(17122724)
650734.33	4191356.46	462.11478	(17022607)	650784.33	4191356.46	474.19929	(17120219)
650834.33	4191356.46	507.97833	(17012717)	650884.33	4191356.46	455.19482	(17012924)
650934.33	4191356.46	440.18789	(17012905)	650984.33	4191356.46	450.57814	(17022508)
651034.33	4191356.46	434.45468	(17022508)	651084.33	4191356.46	385.74842	(17021405)
651134.33	4191356.46	360.19946	(17022706)	651184.33	4191356.46	332.15044	(17122321)
651234.33	4191356.46	311.02493	(14011617)	651284.33	4191356.46	297.74813	(17022407)
651334.33	4191356.46	272.44522	(17123020)	650334.33	4191406.46	242.87751	(17120624)
650384.33	4191406.46	254.89715	(17120208)	650434.33	4191406.46	267.33831	(15022507)

650484.33	4191406.46	302.47296	(17123024)	650534.33	4191406.46	311.14996	(17123021)
650584.33	4191406.46	365.76978	(17122909)	650634.33	4191406.46	350.80108	(16120505)
650684.33	4191406.46	380.41162	(17122724)	650734.33	4191406.46	418.40409	(17120219)
650784.33	4191406.46	407.96903	(17012717)	650834.33	4191406.46	436.34931	(17012717)
650884.33	4191406.46	402.79408	(17012720)	650934.33	4191406.46	391.10790	(17012720)
650984.33	4191406.46	384.72869	(17121401)	651034.33	4191406.46	400.82779	(17022508)
651084.33	4191406.46	344.23814	(17021405)	651134.33	4191406.46	333.44621	(17022706)
651184.33	4191406.46	313.28997	(17012601)	651234.33	4191406.46	293.73827	(17122321)
651284.33	4191406.46	273.10467	(14011617)	651334.33	4191406.46	265.77190	(17022407)
650334.33	4191456.46	223.34947	(17120208)	650384.33	4191456.46	234.27778	(17123024)
650434.33	4191456.46	259.52330	(17123024)	650484.33	4191456.46	267.81450	(17123021)
650534.33	4191456.46	311.63095	(17122909)	650584.33	4191456.46	305.09278	(16022108)
650634.33	4191456.46	329.47985	(17122724)	650684.33	4191456.46	355.26880	(17022607)
650734.33	4191456.46	369.99027	(17120219)	650784.33	4191456.46	377.00224	(17012717)
650834.33	4191456.46	373.67048	(17012717)	650884.33	4191456.46	362.51623	(17122408)
650934.33	4191456.46	353.26459	(17012720)	650984.33	4191456.46	347.45448	(17012905)
651034.33	4191456.46	357.80368	(17022508)	651084.33	4191456.46	332.92137	(17022508)
651134.33	4191456.46	310.14121	(17021405)	651184.33	4191456.46	295.20007	(17022706)
651234.33	4191456.46	276.74802	(17012601)	651284.33	4191456.46	261.23947	(17122321)
651334.33	4191456.46	241.68296	(14011617)	650334.33	4191506.46	209.52391	(17123024)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SLINE5 ***

INCLUDING SOURCE(S): L0000730 , L0000731 , L0000732 , L0000733 , L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	225.29761	(17123024)	650434.33	4191506.46	233.66974	(17123021)
650484.33	4191506.46	268.65958	(17122909)	650534.33	4191506.46	268.36348	(16022108)
650584.33	4191506.46	277.52442	(17122724)	650634.33	4191506.46	296.96808	(17022607)
650684.33	4191506.46	323.99201	(17120219)	650734.33	4191506.46	309.11408	(17120219)
650784.33	4191506.46	344.78602	(17012717)	650834.33	4191506.46	328.76991	(17012924)
650884.33	4191506.46	328.52151	(17122408)	650934.33	4191506.46	321.51559	(17012720)
650984.33	4191506.46	316.73075	(17012905)	651034.33	4191506.46	309.45285	(17022508)
651084.33	4191506.46	316.53418	(17022508)	651134.33	4191506.46	270.85916	(17021405)
651184.33	4191506.46	274.88932	(17021405)	651234.33	4191506.46	260.44525	(17022706)
651284.33	4191506.46	244.63383	(17012601)	651334.33	4191506.46	233.51627	(17122321)
650334.33	4191556.46	197.60182	(17123024)	650384.33	4191556.46	206.22959	(17123021)
650434.33	4191556.46	234.07346	(17122909)	650484.33	4191556.46	238.78885	(17122909)
650534.33	4191556.46	235.42204	(16120505)	650584.33	4191556.46	258.53365	(17122724)
650634.33	4191556.46	282.85772	(17022607)	650684.33	4191556.46	297.45469	(17120219)
650734.33	4191556.46	270.20821	(15021408)	650784.33	4191556.46	312.69168	(17012717)
650834.33	4191556.46	299.00016	(17012924)	650884.33	4191556.46	299.30097	(17122408)

650934.33	4191556.46	294.33146	(17012720)	650984.33	4191556.46	287.03711	(17012905)
651034.33	4191556.46	280.73035	(17121401)	651084.33	4191556.46	291.64314	(17022508)
651134.33	4191556.46	262.20446	(17022508)	651184.33	4191556.46	252.92479	(17021405)
651234.33	4191556.46	239.97204	(17022706)	651284.33	4191556.46	232.04729	(17012601)
651334.33	4191556.46	217.04515	(17122321)	650934.45	4191196.80	760.26318	(17012905)
650934.45	4191240.55	635.63213	(17012905)	651071.58	4191520.04	313.56844	(17022508)
650517.18	4191503.06	276.68186	(17122909)	650941.63	4190991.11	1759.91728	(14121216)
650974.28	4190903.61	1028.04646	(17122318)	650989.95	4190868.34	883.78125	(17122318)
651153.79	4190886.56	900.73869	(17011509)	651170.44	4190902.10	840.25082	(17011509)
651162.67	4190888.23	888.51664	(17011509)	651241.49	4191031.43	567.99082	(14022208)
650569.32	4190797.20	404.92876	(15011205)	650392.81	4190782.21	324.89025	(17121504)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	134.33191	(16012623)	650384.33	4190556.46	138.16361	(16020605)
650434.33	4190556.46	141.08566	(13022418)	650484.33	4190556.46	145.48321	(14032301)
650534.33	4190556.46	148.59841	(14032001)	650584.33	4190556.46	155.97463	(14120120)
650634.33	4190556.46	160.65859	(15022508)	650684.33	4190556.46	158.91899	(16041903)
650734.33	4190556.46	161.99962	(14120724)	650784.33	4190556.46	158.80507	(16031902)
650834.33	4190556.46	165.36503	(16020518)	650884.33	4190556.46	162.28696	(16040904)
650934.33	4190556.46	157.83384	(16120417)	650984.33	4190556.46	164.89721	(17021418)
651034.33	4190556.46	158.53022	(17040502)	651084.33	4190556.46	154.91618	(16022320)
651134.33	4190556.46	150.26780	(17041102)	651184.33	4190556.46	150.73554	(13122017)
651234.33	4190556.46	139.31283	(16021821)	651284.33	4190556.46	139.20557	(17122517)
651334.33	4190556.46	134.46613	(17031624)	650334.33	4190606.46	138.65432	(17011206)
650384.33	4190606.46	144.06297	(16012623)	650434.33	4190606.46	146.58756	(16020605)
650484.33	4190606.46	154.45103	(17122817)	650534.33	4190606.46	152.81050	(17041924)
650584.33	4190606.46	161.03051	(13032724)	650634.33	4190606.46	166.13008	(15022508)
650684.33	4190606.46	166.92557	(13032803)	650734.33	4190606.46	171.79699	(14120724)
650784.33	4190606.46	166.98864	(16021118)	650834.33	4190606.46	171.99149	(15020423)
650884.33	4190606.46	170.94409	(16040904)	650934.33	4190606.46	170.52034	(16120417)
650984.33	4190606.46	174.99089	(17021418)	651034.33	4190606.46	171.60993	(16041107)
651084.33	4190606.46	161.83429	(14021520)	651134.33	4190606.46	159.08240	(13122017)
651184.33	4190606.46	152.13362	(17011805)	651234.33	4190606.46	145.51091	(17041904)
651284.33	4190606.46	146.45034	(17122517)	651334.33	4190606.46	143.82978	(17120117)
650334.33	4190656.46	142.14947	(17020104)	650384.33	4190656.46	147.69547	(15120519)
650434.33	4190656.46	154.94884	(13010518)	650484.33	4190656.46	156.87890	(16121304)
650534.33	4190656.46	166.25174	(17122817)	650584.33	4190656.46	166.04271	(17041924)
650634.33	4190656.46	172.14574	(13040402)	650684.33	4190656.46	173.89206	(15022508)
650734.33	4190656.46	176.87237	(15032204)	650784.33	4190656.46	178.63175	(16021118)
650834.33	4190656.46	178.95782	(15020423)	650884.33	4190656.46	178.54483	(16040904)
650934.33	4190656.46	186.89783	(14121116)	650984.33	4190656.46	175.09483	(17041803)

651034.33	4190656.46	180.61828	(16041107)	651084.33	4190656.46	168.79230	(17011220)
651134.33	4190656.46	164.57352	(17011805)	651184.33	4190656.46	157.98686	(17041904)
651234.33	4190656.46	160.80964	(17122517)	651284.33	4190656.46	154.60903	(17120117)
651334.33	4190656.46	144.96915	(17013019)	650334.33	4190706.46	152.64587	(17020902)
650384.33	4190706.46	149.47210	(17020104)	650434.33	4190706.46	158.49712	(15120519)
650484.33	4190706.46	165.36469	(13010518)	650534.33	4190706.46	171.64277	(13022418)
650584.33	4190706.46	172.38930	(15120819)	650634.33	4190706.46	179.74011	(17041807)
650684.33	4190706.46	189.77127	(15022508)	650734.33	4190706.46	188.81563	(13090907)
650784.33	4190706.46	185.92002	(16021118)	650834.33	4190706.46	190.19537	(16040207)
650884.33	4190706.46	184.54651	(14020518)	650934.33	4190706.46	201.18237	(14121116)
650984.33	4190706.46	194.00102	(16041107)	651034.33	4190706.46	181.22908	(15090707)
651084.33	4190706.46	177.31821	(13122017)	651134.33	4190706.46	163.79970	(17041904)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	173.70003	(17122517)	651234.33	4190706.46	165.37618	(17120117)
651284.33	4190706.46	152.76398	(17013019)	651334.33	4190706.46	151.94091	(17012607)
650334.33	4190756.46	152.33158	(14021403)	650384.33	4190756.46	163.55419	(17020902)
650434.33	4190756.46	160.61293	(15041802)	650484.33	4190756.46	168.95706	(15120519)
650534.33	4190756.46	183.29246	(14010609)	650584.33	4190756.46	186.37436	(13022418)
650634.33	4190756.46	183.57070	(17041924)	650684.33	4190756.46	198.85730	(14041420)
650734.33	4190756.46	197.60077	(13090907)	650784.33	4190756.46	204.63828	(14032718)
650834.33	4190756.46	206.96929	(16040207)	650884.33	4190756.46	200.41890	(17021007)
650934.33	4190756.46	206.05462	(14121116)	650984.33	4190756.46	222.67274	(16041107)
651034.33	4190756.46	188.56102	(14052506)	651084.33	4190756.46	179.69542	(14121122)
651134.33	4190756.46	181.58784	(17122517)	651184.33	4190756.46	174.95675	(17120117)
651234.33	4190756.46	161.10090	(16041802)	651284.33	4190756.46	159.13948	(17030208)
651334.33	4190756.46	160.53344	(17031320)	650334.33	4190806.46	157.02632	(13041820)
650384.33	4190806.46	162.11541	(16032106)	650434.33	4190806.46	173.42058	(13010809)
650484.33	4190806.46	176.03125	(15120820)	650534.33	4190806.46	182.00267	(14010609)
650584.33	4190806.46	207.86683	(14010609)	650634.33	4190806.46	198.44129	(17022208)
650684.33	4190806.46	238.34134	(17041807)	650734.33	4190806.46	213.02118	(16091007)
650784.33	4190806.46	218.51145	(14032718)	650834.33	4190806.46	221.66859	(16040207)
650884.33	4190806.46	215.61587	(14091007)	650934.33	4190806.46	211.29436	(14062006)
650984.33	4190806.46	216.24752	(16041107)	651034.33	4190806.46	200.85857	(17021319)
651084.33	4190806.46	193.22243	(15021218)	651134.33	4190806.46	183.40621	(15020524)
651184.33	4190806.46	176.38257	(16110217)	651234.33	4190806.46	171.96050	(16021119)
651284.33	4190806.46	168.27944	(17031320)	651334.33	4190806.46	155.92178	(17013121)
650334.33	4190856.46	164.90516	(17021408)	650384.33	4190856.46	163.69005	(16021508)
650434.33	4190856.46	171.90759	(16020801)	650484.33	4190856.46	196.88332	(13010809)
650534.33	4190856.46	190.79727	(13010809)	650584.33	4190856.46	210.86820	(14010609)
650634.33	4190856.46	230.83063	(14010609)	650684.33	4190856.46	212.07136	(14041207)

650734.33	4190856.46	255.47563	(17041807)	650784.33	4190856.46	241.80585	(13090907)
650834.33	4190856.46	241.94152	(17090907)	650884.33	4190856.46	246.99337	(14091007)
650934.33	4190856.46	263.68869	(13030408)	650984.33	4190856.46	217.41332	(14040722)
651034.33	4190856.46	206.23869	(17121520)	651084.33	4190856.46	227.06374	(14020517)
651134.33	4190856.46	194.09398	(14100518)	651184.33	4190856.46	186.97477	(17011317)
651234.33	4190856.46	174.46850	(17021419)	651284.33	4190856.46	172.83321	(14043023)
651334.33	4190856.46	159.36554	(17121819)	650334.33	4190906.46	164.36599	(17041124)
650384.33	4190906.46	167.87484	(17120623)	650434.33	4190906.46	183.72917	(17021408)
650484.33	4190906.46	206.97010	(14120809)	650534.33	4190906.46	213.22960	(13122309)
650584.33	4190906.46	235.01303	(13010809)	650634.33	4190906.46	241.14175	(14010609)
650684.33	4190906.46	239.29503	(14010609)	650734.33	4190906.46	307.42762	(17041807)
650784.33	4190906.46	264.89878	(15091207)	650834.33	4190906.46	278.05354	(17031820)
650884.33	4190906.46	275.86260	(17031919)	650934.33	4190906.46	287.01945	(13030408)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	264.68154	(16090207)	651034.33	4190906.46	281.48901	(14020517)
651084.33	4190906.46	211.09348	(17030919)	651134.33	4190906.46	200.98545	(17021419)
651184.33	4190906.46	191.59835	(16021519)	651234.33	4190906.46	181.44798	(17121518)
651284.33	4190906.46	167.55599	(14041501)	651334.33	4190906.46	162.93969	(17030921)
650334.33	4190956.46	163.36813	(14120421)	650384.33	4190956.46	176.96800	(15010709)
650434.33	4190956.46	182.18477	(17032324)	650484.33	4190956.46	185.92251	(17041124)
650534.33	4190956.46	227.74967	(14120809)	650584.33	4190956.46	261.45976	(14120809)
650634.33	4190956.46	270.19662	(13010809)	650684.33	4190956.46	259.65643	(14010609)
650734.33	4190956.46	338.69966	(14041207)	650784.33	4190956.46	307.51785	(16123108)
650834.33	4190956.46	359.87684	(13120717)	650884.33	4190956.46	360.70777	(16030320)
650934.33	4190956.46	321.40159	(16022720)	650984.33	4190956.46	329.05191	(14020517)
651034.33	4190956.46	245.91853	(17121601)	651084.33	4190956.46	238.61724	(17031318)
651134.33	4190956.46	229.86207	(14010409)	651184.33	4190956.46	198.47785	(14010409)
651234.33	4190956.46	180.93262	(13081801)	651284.33	4190956.46	170.37922	(17021005)
651334.33	4190956.46	162.31638	(17021005)	650334.33	4191006.46	168.89678	(15021608)
650384.33	4191006.46	172.78011	(15021608)	650434.33	4191006.46	183.04454	(14122219)
650484.33	4191006.46	217.75207	(15010709)	650534.33	4191006.46	242.72371	(15010709)
650584.33	4191006.46	222.79726	(15010709)	650634.33	4191006.46	288.61086	(14120809)
650684.33	4191006.46	278.90374	(16122521)	650734.33	4191006.46	373.20577	(14120717)
650784.33	4191006.46	402.29828	(16031020)	650834.33	4191006.46	492.00270	(16043022)
650884.33	4191006.46	498.43170	(17041720)	650934.33	4191006.46	430.98209	(17040520)
650984.33	4191006.46	342.85142	(17031121)	651034.33	4191006.46	316.83685	(15091218)
651084.33	4191006.46	265.79373	(14010409)	651134.33	4191006.46	215.79383	(13011309)
651184.33	4191006.46	196.31937	(17081203)	651234.33	4191006.46	189.06099	(14091307)
651284.33	4191006.46	176.18358	(14091307)	651334.33	4191006.46	167.78443	(14091921)
650334.33	4191056.46	164.28195	(16021502)	650384.33	4191056.46	184.55714	(16122709)

650434.33	4191056.46	206.07859	(16122709)	650484.33	4191056.46	224.93759	(16122709)
650534.33	4191056.46	234.43084	(16122709)	650584.33	4191056.46	280.67018	(16020517)
650634.33	4191056.46	354.85341	(16020517)	650684.33	4191056.46	334.34300	(16020517)
650734.33	4191056.46	390.88877	(13062901)	650784.33	4191056.46	558.69282	(17080406)
650834.33	4191056.46	766.05474	(15061323)	650884.33	4191056.46	768.04759	(15092418)
650934.33	4191056.46	557.90556	(17030818)	650984.33	4191056.46	391.72444	(17121918)
651034.33	4191056.46	302.49134	(17122309)	651084.33	4191056.46	282.19298	(17122309)
651134.33	4191056.46	240.05533	(14091307)	651184.33	4191056.46	209.38402	(17061306)
651234.33	4191056.46	191.36539	(17080204)	651284.33	4191056.46	181.41001	(17080204)
651334.33	4191056.46	171.22444	(14073004)	650334.33	4191106.46	173.02791	(14122109)
650384.33	4191106.46	188.82509	(14122109)	650434.33	4191106.46	205.81301	(14122109)
650484.33	4191106.46	223.92400	(16122909)	650534.33	4191106.46	241.13338	(16122909)
650584.33	4191106.46	260.64893	(15010909)	650634.33	4191106.46	282.19545	(15010909)
650684.33	4191106.46	348.12736	(17010703)	650734.33	4191106.46	460.25509	(14020603)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	686.73220	(16112008)	650834.33	4191106.46	228.27140	(15020210)
650884.33	4191106.46	994.48351	(15073020)	650934.33	4191106.46	657.73398	(17072723)
650984.33	4191106.46	426.07823	(17100718)	651034.33	4191106.46	311.04477	(15092119)
651084.33	4191106.46	249.42051	(15102617)	651134.33	4191106.46	234.21450	(15102617)
651184.33	4191106.46	213.34376	(15102617)	651234.33	4191106.46	192.94141	(15043021)
651284.33	4191106.46	179.17602	(15043021)	651334.33	4191106.46	169.25408	(17091205)
650334.33	4191156.46	171.26061	(17031724)	650384.33	4191156.46	187.11801	(17013109)
650434.33	4191156.46	208.05025	(17013109)	650484.33	4191156.46	227.78731	(17013109)
650534.33	4191156.46	241.54090	(17013109)	650584.33	4191156.46	249.64219	(16123009)
650634.33	4191156.46	300.72297	(16123009)	650684.33	4191156.46	345.13807	(17021503)
650734.33	4191156.46	443.43303	(17021504)	650784.33	4191156.46	668.11874	(16102917)
650834.33	4191156.46	896.81901	(17111524)	650884.33	4191156.46	778.00008	(17041220)
650934.33	4191156.46	584.07365	(13050719)	650984.33	4191156.46	407.83794	(14012417)
651034.33	4191156.46	351.17198	(15120709)	651084.33	4191156.46	305.58806	(13040507)
651134.33	4191156.46	265.47288	(13040507)	651184.33	4191156.46	219.92733	(13040507)
651234.33	4191156.46	200.61845	(17022708)	651284.33	4191156.46	189.11593	(17022708)
651334.33	4191156.46	175.70504	(17022708)	650334.33	4191206.46	170.33264	(17040504)
650384.33	4191206.46	182.18487	(15013009)	650434.33	4191206.46	197.08817	(15013009)
650484.33	4191206.46	216.97707	(15122909)	650534.33	4191206.46	225.61783	(17122509)
650584.33	4191206.46	234.94148	(14110508)	650634.33	4191206.46	276.69873	(13020309)
650684.33	4191206.46	327.62929	(17122809)	650734.33	4191206.46	369.67499	(16011818)
650784.33	4191206.46	472.48773	(15121817)	650834.33	4191206.46	565.13318	(16103122)
650884.33	4191206.46	546.37577	(17022106)	650934.33	4191206.46	457.85598	(17010119)
650984.33	4191206.46	364.18362	(17011917)	651034.33	4191206.46	325.14588	(17122709)
651084.33	4191206.46	262.08307	(14040407)	651134.33	4191206.46	223.36355	(17012917)

651184.33	4191206.46	200.79517	(17012917)	651234.33	4191206.46	187.87654	(15091922)
651284.33	4191206.46	176.58733	(16012718)	651334.33	4191206.46	170.40978	(14120819)
650334.33	4191256.46	166.92837	(17011123)	650384.33	4191256.46	183.54378	(17122509)
650434.33	4191256.46	193.30375	(17122509)	650484.33	4191256.46	192.76024	(13110208)
650534.33	4191256.46	222.65358	(13020309)	650584.33	4191256.46	239.78488	(13020309)
650634.33	4191256.46	266.99787	(17122809)	650684.33	4191256.46	299.08114	(17040407)
650734.33	4191256.46	302.53491	(15120917)	650784.33	4191256.46	383.63129	(14032818)
650834.33	4191256.46	402.90902	(17020920)	650884.33	4191256.46	398.39091	(17010823)
650934.33	4191256.46	349.04187	(14021005)	650984.33	4191256.46	289.69834	(15121023)
651034.33	4191256.46	264.84626	(15022708)	651084.33	4191256.46	268.52770	(17122709)
651134.33	4191256.46	230.82660	(17122709)	651184.33	4191256.46	216.15223	(17013017)
651234.33	4191256.46	203.10957	(16012717)	651284.33	4191256.46	175.52253	(15010617)
651334.33	4191256.46	164.71330	(15120623)	650334.33	4191306.46	164.80189	(17031723)
650384.33	4191306.46	173.44594	(17032420)	650434.33	4191306.46	183.61875	(14030818)
650484.33	4191306.46	199.01450	(17040507)	650534.33	4191306.46	211.65146	(15010309)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***

INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	217.69071	(13103108)	650634.33	4191306.46	240.30455	(17040407)
650684.33	4191306.46	235.38688	(17103108)	650734.33	4191306.46	299.62923	(14032818)
650784.33	4191306.46	303.38112	(14120909)	650834.33	4191306.46	284.94081	(17032618)
650884.33	4191306.46	300.81855	(14122609)	650934.33	4191306.46	268.31135	(17010917)
650984.33	4191306.46	271.74515	(17102317)	651034.33	4191306.46	229.59594	(16060106)
651084.33	4191306.46	222.54917	(15022708)	651134.33	4191306.46	217.13555	(13122709)
651184.33	4191306.46	201.20935	(13122709)	651234.33	4191306.46	180.54618	(17120217)
651284.33	4191306.46	174.63437	(15022308)	651334.33	4191306.46	171.67788	(16012717)
650334.33	4191356.46	164.65398	(17020721)	650384.33	4191356.46	172.29099	(17020721)
650434.33	4191356.46	183.84087	(17040507)	650484.33	4191356.46	185.22451	(13091907)
650534.33	4191356.46	195.56454	(13103108)	650584.33	4191356.46	206.42245	(14040707)
650634.33	4191356.46	204.73112	(13101019)	650684.33	4191356.46	240.20691	(16110408)
650734.33	4191356.46	255.08273	(16121409)	650784.33	4191356.46	236.26843	(15103117)
650834.33	4191356.46	251.32458	(15091607)	650884.33	4191356.46	273.29687	(14122609)
650934.33	4191356.46	234.61774	(14010309)	650984.33	4191356.46	223.88959	(17102317)
651034.33	4191356.46	216.55138	(17102317)	651084.33	4191356.46	207.35671	(17040807)
651134.33	4191356.46	197.71521	(14011517)	651184.33	4191356.46	189.34143	(17061906)
651234.33	4191356.46	183.62296	(13122709)	651284.33	4191356.46	173.08069	(15031322)
651334.33	4191356.46	163.08258	(15011517)	650334.33	4191406.46	155.44594	(17040507)
650384.33	4191406.46	159.70825	(15100104)	650434.33	4191406.46	170.53633	(13091907)
650484.33	4191406.46	175.57890	(15012017)	650534.33	4191406.46	189.25444	(15091220)
650584.33	4191406.46	184.51033	(14101505)	650634.33	4191406.46	215.42974	(16110408)
650684.33	4191406.46	215.17619	(15011809)	650734.33	4191406.46	255.39905	(14120909)
650784.33	4191406.46	229.68794	(15103117)	650834.33	4191406.46	222.02335	(15091607)

650884.33	4191406.46	228.59861	(14122609)	650934.33	4191406.46	227.29235	(14010309)
650984.33	4191406.46	206.63862	(16053106)	651034.33	4191406.46	218.57799	(17102317)
651084.33	4191406.46	198.78255	(17040807)	651134.33	4191406.46	182.11658	(17040807)
651184.33	4191406.46	175.17895	(17042923)	651234.33	4191406.46	170.34467	(15042724)
651284.33	4191406.46	166.70073	(16092620)	651334.33	4191406.46	157.49398	(13020120)
650334.33	4191456.46	147.36624	(13091907)	650384.33	4191456.46	150.37627	(13111919)
650434.33	4191456.46	159.75510	(15102307)	650484.33	4191456.46	175.97344	(15091220)
650534.33	4191456.46	172.27377	(16103120)	650584.33	4191456.46	187.46443	(15091121)
650634.33	4191456.46	194.39122	(13081824)	650684.33	4191456.46	197.35424	(16121409)
650734.33	4191456.46	211.50659	(14120909)	650784.33	4191456.46	202.54479	(15103117)
650834.33	4191456.46	201.03459	(15100518)	650884.33	4191456.46	209.99796	(15012717)
650934.33	4191456.46	203.34393	(14122609)	650984.33	4191456.46	196.05278	(16053106)
651034.33	4191456.46	189.92636	(13092819)	651084.33	4191456.46	188.90413	(16091807)
651134.33	4191456.46	183.91421	(17040807)	651184.33	4191456.46	173.54064	(14021523)
651234.33	4191456.46	164.59959	(15030420)	651284.33	4191456.46	158.87242	(17012922)
651334.33	4191456.46	152.85709	(13120224)	650334.33	4191506.46	140.43743	(13102904)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK1 ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	148.04120	(17031502)	650434.33	4191506.46	161.67483	(15091220)
650484.33	4191506.46	161.26913	(16103120)	650534.33	4191506.46	167.78229	(15091121)
650584.33	4191506.46	179.03403	(15011709)	650634.33	4191506.46	182.14293	(15011809)
650684.33	4191506.46	189.99627	(14120909)	650734.33	4191506.46	186.08297	(15020721)
650784.33	4191506.46	181.03534	(15120707)	650834.33	4191506.46	181.70368	(17020906)
650884.33	4191506.46	194.94825	(13012117)	650934.33	4191506.46	193.68373	(14122609)
650984.33	4191506.46	190.78470	(14010309)	651034.33	4191506.46	177.18713	(15011721)
651084.33	4191506.46	177.81954	(15092122)	651134.33	4191506.46	169.37896	(16092007)
651184.33	4191506.46	165.62454	(17040807)	651234.33	4191506.46	162.86703	(14021523)
651284.33	4191506.46	152.90568	(15030420)	651334.33	4191506.46	147.97165	(16011924)
650334.33	4191556.46	138.88860	(15091220)	650384.33	4191556.46	147.87719	(15091220)
650434.33	4191556.46	149.52238	(16103120)	650484.33	4191556.46	151.96466	(13092407)
650534.33	4191556.46	167.79317	(15091121)	650584.33	4191556.46	165.75832	(16040607)
650634.33	4191556.46	170.93301	(15102802)	650684.33	4191556.46	172.04831	(14120909)
650734.33	4191556.46	176.95686	(16071404)	650784.33	4191556.46	174.43724	(15100423)
650834.33	4191556.46	174.77189	(15030919)	650884.33	4191556.46	180.89140	(13012117)
650934.33	4191556.46	176.03016	(14122609)	650984.33	4191556.46	178.83372	(14010309)
651034.33	4191556.46	172.62523	(17032421)	651084.33	4191556.46	163.54927	(13020219)
651134.33	4191556.46	160.97670	(15092122)	651184.33	4191556.46	162.16446	(15020318)
651234.33	4191556.46	152.90391	(15022703)	651284.33	4191556.46	151.49687	(14021523)
651334.33	4191556.46	142.52718	(15020301)	650934.45	4191196.80	473.37825	(15022802)
650934.45	4191240.55	372.45359	(17012021)	651071.58	4191520.04	171.77353	(13020219)
650517.18	4191503.06	159.12374	(13110708)	650941.63	4190991.11	383.41112	(17022318)

650974.28	4190903.61	252.42640	(17011319)	650989.95	4190868.34	216.75880	(15102717)
651153.79	4190886.56	193.89738	(17011317)	651170.44	4190902.10	194.42525	(16052906)
651162.67	4190888.23	196.88476	(17021419)	651241.49	4191031.43	190.67977	(14091307)
650569.32	4190797.20	206.55755	(14010609)	650392.81	4190782.21	165.82058	(14021403)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	142.31404	(13010518)	650384.33	4190556.46	148.32380	(16020605)
650434.33	4190556.46	153.94711	(13022418)	650484.33	4190556.46	155.30193	(14032102)
650534.33	4190556.46	162.12997	(13032724)	650584.33	4190556.46	165.53156	(15120723)
650634.33	4190556.46	169.03281	(13032803)	650684.33	4190556.46	172.62973	(14120724)
650734.33	4190556.46	169.44592	(16021118)	650784.33	4190556.46	173.36864	(15020423)
650834.33	4190556.46	172.69176	(16040904)	650884.33	4190556.46	172.36766	(16120417)
650934.33	4190556.46	176.07581	(17021418)	650984.33	4190556.46	174.66163	(16041107)
651034.33	4190556.46	164.21594	(14021520)	651084.33	4190556.46	162.29636	(13122017)
651134.33	4190556.46	150.66646	(17011805)	651184.33	4190556.46	149.02219	(17122517)
651234.33	4190556.46	143.97308	(17122517)	651284.33	4190556.46	146.03019	(17120117)
651334.33	4190556.46	138.87393	(17013019)	650334.33	4190606.46	146.36449	(13020305)
650384.33	4190606.46	153.63768	(13010518)	650434.33	4190606.46	156.65166	(15120208)
650484.33	4190606.46	166.99316	(17122817)	650534.33	4190606.46	168.35431	(17041924)
650584.33	4190606.46	172.09507	(14041420)	650634.33	4190606.46	179.21794	(15022508)
650684.33	4190606.46	178.33210	(15040407)	650734.33	4190606.46	180.21106	(16021118)
650784.33	4190606.46	179.92138	(15020423)	650834.33	4190606.46	180.11001	(16040904)
650884.33	4190606.46	189.85663	(14121116)	650934.33	4190606.46	176.67351	(15021418)
650984.33	4190606.46	180.69087	(16041107)	651034.33	4190606.46	170.62180	(17011220)
651084.33	4190606.46	166.65220	(17011805)	651134.33	4190606.46	159.24994	(17041904)
651184.33	4190606.46	159.38170	(17122517)	651234.33	4190606.46	157.48991	(17120117)
651284.33	4190606.46	146.88809	(17013019)	651334.33	4190606.46	143.35599	(17012607)
650334.33	4190656.46	150.78682	(15120820)	650384.33	4190656.46	155.79170	(15120519)
650434.33	4190656.46	165.46815	(16030404)	650484.33	4190656.46	168.43819	(13022418)
650534.33	4190656.46	176.59655	(17022208)	650584.33	4190656.46	182.12829	(17041807)
650634.33	4190656.46	189.00355	(15022508)	650684.33	4190656.46	191.41389	(13090907)
650734.33	4190656.46	189.02662	(14120619)	650784.33	4190656.46	193.92314	(16040207)
650834.33	4190656.46	187.02494	(14020518)	650884.33	4190656.46	203.25829	(14121116)
650934.33	4190656.46	200.37067	(16041107)	650984.33	4190656.46	183.96723	(15090707)
651034.33	4190656.46	179.16032	(13122017)	651084.33	4190656.46	168.27961	(17041904)
651134.33	4190656.46	174.12602	(17122517)	651184.33	4190656.46	169.17001	(17120117)
651234.33	4190656.46	154.12465	(17013019)	651284.33	4190656.46	149.77292	(17012607)
651334.33	4190656.46	150.07105	(17031320)	650334.33	4190706.46	162.17282	(14021403)
650384.33	4190706.46	166.08516	(15120820)	650434.33	4190706.46	169.55797	(16042106)
650484.33	4190706.46	190.26992	(14010609)	650534.33	4190706.46	186.67950	(13022418)
650584.33	4190706.46	181.97061	(14040902)	650634.33	4190706.46	207.15738	(17041807)

650684.33	4190706.46	196.36566	(13090907)	650734.33	4190706.46	207.76142	(14032718)
650784.33	4190706.46	210.44427	(16040207)	650834.33	4190706.46	203.37876	(17021007)
650884.33	4190706.46	206.02156	(14121116)	650934.33	4190706.46	225.32731	(16041107)
650984.33	4190706.46	188.47021	(14040722)	651034.33	4190706.46	181.57680	(13051306)
651084.33	4190706.46	185.04437	(17122517)	651134.33	4190706.46	179.97384	(17120117)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***
INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	164.15206	(14091124)	651234.33	4190706.46	161.79335	(16021119)
651284.33	4190706.46	159.63050	(17031320)	651334.33	4190706.46	145.85271	(15021221)
650334.33	4190756.46	161.76449	(14033104)	650384.33	4190756.46	175.12602	(13010809)
650434.33	4190756.46	179.39450	(15120820)	650484.33	4190756.46	182.68480	(16042106)
650534.33	4190756.46	219.22543	(14010609)	650584.33	4190756.46	196.04827	(17022208)
650634.33	4190756.46	238.93582	(17041807)	650684.33	4190756.46	220.43076	(16091007)
650734.33	4190756.46	218.18505	(13090907)	650784.33	4190756.46	224.06528	(16040207)
650834.33	4190756.46	220.62523	(14091007)	650884.33	4190756.46	215.82453	(14062006)
650934.33	4190756.46	218.98807	(15090707)	650984.33	4190756.46	200.91705	(17021319)
651034.33	4190756.46	196.48968	(15012217)	651084.33	4190756.46	187.57576	(17120117)
651134.33	4190756.46	179.96567	(16110217)	651184.33	4190756.46	176.57409	(17011317)
651234.33	4190756.46	164.79280	(17021419)	651284.33	4190756.46	158.73790	(14043023)
651334.33	4190756.46	152.07466	(17121518)	650334.33	4190806.46	163.15320	(17021408)
650384.33	4190806.46	172.70000	(14120809)	650434.33	4190806.46	191.43450	(13010809)
650484.33	4190806.46	206.83068	(13010809)	650534.33	4190806.46	203.34761	(17040207)
650584.33	4190806.46	249.47579	(14010609)	650634.33	4190806.46	225.42019	(14041207)
650684.33	4190806.46	275.22678	(17041807)	650734.33	4190806.46	245.54136	(13090907)
650784.33	4190806.46	245.04058	(17090907)	650834.33	4190806.46	251.43320	(14091007)
650884.33	4190806.46	273.79948	(13030408)	650934.33	4190806.46	218.04945	(15102717)
650984.33	4190806.46	217.86813	(15102117)	651034.33	4190806.46	231.78240	(14020517)
651084.33	4190806.46	196.53077	(14100518)	651134.33	4190806.46	190.91032	(17011317)
651184.33	4190806.46	177.38806	(17013121)	651234.33	4190806.46	173.71065	(17121518)
651284.33	4190806.46	159.89954	(17121819)	651334.33	4190806.46	150.31645	(14041501)
650334.33	4190856.46	170.70174	(17041124)	650384.33	4190856.46	184.37036	(17021408)
650434.33	4190856.46	208.92558	(14120809)	650484.33	4190856.46	209.10471	(14120809)
650534.33	4190856.46	246.32151	(13010809)	650584.33	4190856.46	226.44673	(17040207)
650634.33	4190856.46	269.45875	(14010609)	650684.33	4190856.46	295.72976	(17041807)
650734.33	4190856.46	278.42834	(15091207)	650784.33	4190856.46	290.05187	(17031820)
650834.33	4190856.46	287.87733	(14022604)	650884.33	4190856.46	282.39554	(13030408)
650934.33	4190856.46	279.81210	(16090207)	650984.33	4190856.46	292.28808	(14020517)
651034.33	4190856.46	210.38868	(17122617)	651084.33	4190856.46	202.52490	(16052906)
651134.33	4190856.46	192.91737	(14043023)	651184.33	4190856.46	177.19826	(17121819)
651234.33	4190856.46	170.60909	(17030921)	651284.33	4190856.46	160.33274	(17030921)
651334.33	4190856.46	148.98938	(14100305)	650334.33	4190906.46	179.00481	(15010709)

650384.33	4190906.46	190.82965	(15010709)	650434.33	4190906.46	190.86099	(17041124)
650484.33	4190906.46	207.21942	(14120809)	650534.33	4190906.46	271.89692	(14120809)
650584.33	4190906.46	263.44790	(13010809)	650634.33	4190906.46	252.35588	(14120717)
650684.33	4190906.46	319.35084	(14041207)	650734.33	4190906.46	336.30323	(16123109)
650784.33	4190906.46	382.04325	(16031019)	650834.33	4190906.46	383.35123	(16030320)
650884.33	4190906.46	340.82288	(17030719)	650934.33	4190906.46	351.86125	(14020517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	265.34194	(14040907)	651034.33	4190906.46	241.19413	(17031318)
651084.33	4190906.46	238.37032	(14010409)	651134.33	4190906.46	194.06195	(17102718)
651184.33	4190906.46	182.33046	(13081801)	651234.33	4190906.46	174.48955	(17021005)
651284.33	4190906.46	163.98433	(17021401)	651334.33	4190906.46	155.09134	(17112222)
650334.33	4190956.46	176.14403	(15021608)	650384.33	4190956.46	181.01430	(17011802)
650434.33	4190956.46	204.78487	(16020517)	650484.33	4190956.46	245.06331	(15010709)
650534.33	4190956.46	252.55953	(15010709)	650584.33	4190956.46	250.62067	(14120809)
650634.33	4190956.46	307.81632	(14120809)	650684.33	4190956.46	366.53088	(16030302)
650734.33	4190956.46	431.83824	(15080701)	650784.33	4190956.46	536.92295	(13032819)
650834.33	4190956.46	536.88867	(15031520)	650884.33	4190956.46	450.54660	(17040520)
650934.33	4190956.46	355.73072	(17122019)	650984.33	4190956.46	307.92257	(14010409)
651034.33	4190956.46	266.77345	(13011309)	651084.33	4190956.46	217.07955	(14011817)
651134.33	4190956.46	205.77607	(14091307)	651184.33	4190956.46	196.30287	(14091307)
651234.33	4190956.46	179.32722	(14091921)	651284.33	4190956.46	167.10758	(15072004)
651334.33	4190956.46	159.15627	(15072004)	650334.33	4191006.46	177.39341	(16122709)
650384.33	4191006.46	202.62520	(16122709)	650434.33	4191006.46	228.60207	(16122709)
650484.33	4191006.46	250.50482	(16122709)	650534.33	4191006.46	257.31130	(16122709)
650584.33	4191006.46	340.23639	(16020517)	650634.33	4191006.46	393.69265	(16020517)
650684.33	4191006.46	449.87145	(17020119)	650734.33	4191006.46	594.88110	(17080406)
650784.33	4191006.46	831.50780	(15091304)	650834.33	4191006.46	850.46024	(17102517)
650884.33	4191006.46	589.28450	(17040420)	650934.33	4191006.46	401.54629	(17080402)
650984.33	4191006.46	345.37669	(17122309)	651034.33	4191006.46	278.90357	(17122309)
651084.33	4191006.46	225.33643	(17061306)	651134.33	4191006.46	204.06472	(13110508)
651184.33	4191006.46	192.67176	(17080204)	651234.33	4191006.46	180.81832	(14073004)
651284.33	4191006.46	171.26536	(13070405)	651334.33	4191006.46	161.91716	(17021219)
650334.33	4191056.46	189.81270	(17012309)	650384.33	4191056.46	206.90391	(17012309)
650434.33	4191056.46	224.57085	(17012309)	650484.33	4191056.46	240.95304	(17012309)
650534.33	4191056.46	252.37432	(16122909)	650584.33	4191056.46	274.27310	(17010702)
650634.33	4191056.46	339.60538	(17010702)	650684.33	4191056.46	474.14500	(15022118)
650734.33	4191056.46	704.95984	(15103023)	650784.33	4191056.46	225.06195	(13121510)
650834.33	4191056.46	960.04145	(14052119)	650884.33	4191056.46	673.80178	(16031718)
650934.33	4191056.46	423.47225	(16022222)	650984.33	4191056.46	305.77283	(13032901)
651034.33	4191056.46	246.54909	(16062406)	651084.33	4191056.46	218.56870	(16062406)

651134.33	4191056.46	201.90581	(15091921)	651184.33	4191056.46	189.41898	(15091921)
651234.33	4191056.46	178.94101	(13031019)	651284.33	4191056.46	167.91807	(13031019)
651334.33	4191056.46	158.16436	(17013023)	650334.33	4191106.46	196.31834	(17013109)
650384.33	4191106.46	213.89333	(17013109)	650434.33	4191106.46	227.34044	(17013109)
650484.33	4191106.46	233.06813	(15013009)	650534.33	4191106.46	272.67755	(16123009)
650584.33	4191106.46	303.99383	(16123009)	650634.33	4191106.46	340.17680	(17021503)
650684.33	4191106.46	448.62687	(17041619)	650734.33	4191106.46	599.14217	(16011724)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	829.09976	(16101603)	650834.33	4191106.46	767.18949	(14022806)
650884.33	4191106.46	552.63466	(17030505)	650934.33	4191106.46	403.13492	(15091319)
650984.33	4191106.46	364.52379	(15120709)	651034.33	4191106.46	293.05419	(13040507)
651084.33	4191106.46	271.78850	(13040507)	651134.33	4191106.46	233.67704	(13040507)
651184.33	4191106.46	195.43747	(13040507)	651234.33	4191106.46	183.57422	(17022708)
651284.33	4191106.46	173.79279	(17022708)	651334.33	4191106.46	162.51272	(17022708)
650334.33	4191156.46	179.01056	(15013009)	650384.33	4191156.46	193.94950	(15122909)
650434.33	4191156.46	208.71699	(17122509)	650484.33	4191156.46	227.60000	(17122509)
650534.33	4191156.46	236.01777	(14110508)	650584.33	4191156.46	288.52456	(13020309)
650634.33	4191156.46	333.18825	(17122809)	650684.33	4191156.46	356.26978	(16041620)
650734.33	4191156.46	445.41660	(14021002)	650784.33	4191156.46	517.44651	(16103122)
650834.33	4191156.46	530.45002	(17022106)	650884.33	4191156.46	434.07547	(16121019)
650934.33	4191156.46	347.01693	(17012302)	650984.33	4191156.46	338.85003	(17122709)
651034.33	4191156.46	263.93318	(14040407)	651084.33	4191156.46	231.56088	(17013017)
651134.33	4191156.46	200.22141	(13011617)	651184.33	4191156.46	184.51027	(14012521)
651234.33	4191156.46	178.02999	(13010317)	651284.33	4191156.46	167.31592	(13010317)
651334.33	4191156.46	162.91938	(14120819)	650334.33	4191206.46	184.33594	(17022608)
650384.33	4191206.46	184.03139	(17022608)	650434.33	4191206.46	193.42550	(14030818)
650484.33	4191206.46	222.94618	(13020309)	650534.33	4191206.46	242.97877	(17122809)
650584.33	4191206.46	246.71568	(15010309)	650634.33	4191206.46	288.92784	(17040407)
650684.33	4191206.46	310.97694	(14122709)	650734.33	4191206.46	354.33303	(14032818)
650784.33	4191206.46	376.24882	(17020920)	650834.33	4191206.46	377.41805	(17010823)
650884.33	4191206.46	326.90313	(14021005)	650934.33	4191206.46	280.10573	(15121023)
650984.33	4191206.46	265.75006	(16090707)	651034.33	4191206.46	245.55834	(13122709)
651084.33	4191206.46	239.72842	(17122709)	651134.33	4191206.46	204.19655	(17013017)
651184.33	4191206.46	202.88159	(16012717)	651234.33	4191206.46	182.97221	(16012717)
651284.33	4191206.46	165.26053	(15120623)	651334.33	4191206.46	156.16374	(15120623)
650334.33	4191256.46	169.90622	(17032420)	650384.33	4191256.46	185.05861	(17020721)
650434.33	4191256.46	204.10149	(17040507)	650484.33	4191256.46	212.02299	(15010309)
650534.33	4191256.46	224.03665	(13103108)	650584.33	4191256.46	236.51330	(14040707)
650634.33	4191256.46	228.00057	(13110517)	650684.33	4191256.46	300.43437	(14032818)
650734.33	4191256.46	292.39102	(14120909)	650784.33	4191256.46	271.76940	(17021618)

650834.33	4191256.46	297.82793	(14122609)	650884.33	4191256.46	267.41137	(17010917)
650934.33	4191256.46	272.66136	(17102317)	650984.33	4191256.46	238.24650	(17040807)
651034.33	4191256.46	223.07055	(16090707)	651084.33	4191256.46	209.95093	(17091207)
651134.33	4191256.46	206.65984	(13122709)	651184.33	4191256.46	181.60063	(15031322)
651234.33	4191256.46	170.95484	(14012520)	651284.33	4191256.46	169.26890	(15022308)
651334.33	4191256.46	159.49686	(16012717)	650334.33	4191306.46	169.47485	(17040507)
650384.33	4191306.46	176.09245	(17040507)	650434.33	4191306.46	185.61526	(13091907)
650484.33	4191306.46	194.39041	(13103108)	650534.33	4191306.46	202.02252	(14040707)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	202.03236	(13101019)	650634.33	4191306.46	232.00627	(16110408)
650684.33	4191306.46	248.69287	(14120909)	650734.33	4191306.46	236.69699	(15103117)
650784.33	4191306.46	246.19551	(15091607)	650834.33	4191306.46	263.28248	(14122609)
650884.33	4191306.46	237.40387	(14010309)	650934.33	4191306.46	212.24445	(13110917)
650984.33	4191306.46	225.15772	(17102317)	651034.33	4191306.46	216.56136	(17040807)
651084.33	4191306.46	195.06430	(14011517)	651134.33	4191306.46	182.72684	(15042724)
651184.33	4191306.46	179.15371	(16092620)	651234.33	4191306.46	170.15386	(15101222)
651284.33	4191306.46	160.20849	(14021304)	651334.33	4191306.46	154.86352	(15011517)
650334.33	4191356.46	158.25254	(15100104)	650384.33	4191356.46	165.43095	(13091907)
650434.33	4191356.46	175.09024	(15012017)	650484.33	4191356.46	185.37658	(15091220)
650534.33	4191356.46	183.80160	(14101505)	650584.33	4191356.46	214.52708	(16110408)
650634.33	4191356.46	214.95771	(15011809)	650684.33	4191356.46	249.71786	(14120909)
650734.33	4191356.46	225.25293	(15103117)	650784.33	4191356.46	217.03638	(15100518)
650834.33	4191356.46	224.08357	(15012717)	650884.33	4191356.46	221.05800	(14010309)
650934.33	4191356.46	208.16989	(16053106)	650984.33	4191356.46	210.13392	(17102317)
651034.33	4191356.46	196.09804	(16092007)	651084.33	4191356.46	189.93939	(17040807)
651134.33	4191356.46	174.68396	(13022722)	651184.33	4191356.46	169.30787	(17012922)
651234.33	4191356.46	164.32534	(16092620)	651284.33	4191356.46	154.80054	(13020120)
651334.33	4191356.46	150.62876	(15031322)	650334.33	4191406.46	149.60468	(13102904)
650384.33	4191406.46	159.33193	(15091220)	650434.33	4191406.46	171.37746	(15091220)
650484.33	4191406.46	170.53344	(16103120)	650534.33	4191406.46	188.89771	(15091121)
650584.33	4191406.46	191.03079	(13081824)	650634.33	4191406.46	191.48064	(16121409)
650684.33	4191406.46	201.63685	(14120909)	650734.33	4191406.46	197.02775	(15103117)
650784.33	4191406.46	197.39065	(15100518)	650834.33	4191406.46	206.80771	(15012717)
650884.33	4191406.46	203.62906	(14122609)	650934.33	4191406.46	194.07129	(13022508)
650984.33	4191406.46	185.42375	(14021524)	651034.33	4191406.46	186.15606	(16091807)
651084.33	4191406.46	180.49574	(15020318)	651134.33	4191406.46	171.74729	(14021523)
651184.33	4191406.46	163.18373	(15020301)	651234.33	4191406.46	156.70222	(16011924)
651284.33	4191406.46	153.07247	(13120224)	651334.33	4191406.46	147.03219	(17122322)
650334.33	4191456.46	150.61522	(15091220)	650384.33	4191456.46	156.96492	(15091220)
650434.33	4191456.46	160.21454	(16103120)	650484.33	4191456.46	171.07985	(15091121)

650534.33	4191456.46	175.25764	(15011709)	650584.33	4191456.46	179.49933	(15011809)
650634.33	4191456.46	187.89894	(14120909)	650684.33	4191456.46	183.90480	(15020721)
650734.33	4191456.46	179.30930	(15120707)	650784.33	4191456.46	178.83882	(15030919)
650834.33	4191456.46	192.13231	(13012117)	650884.33	4191456.46	191.14051	(14122609)
650934.33	4191456.46	190.01609	(14010309)	650984.33	4191456.46	174.57291	(15011721)
651034.33	4191456.46	174.62046	(15092122)	651084.33	4191456.46	168.47595	(17120123)
651134.33	4191456.46	165.12799	(15020318)	651184.33	4191456.46	161.57178	(14021523)
651234.33	4191456.46	152.85193	(15020301)	651284.33	4191456.46	145.91251	(16011924)
651334.33	4191456.46	140.28724	(13120224)	650334.33	4191506.46	145.12044	(14120419)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK2 ***

INCLUDING SOURCE(S): STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	148.94762	(16103120)	650434.33	4191506.46	151.58655	(15091121)
650484.33	4191506.46	163.87293	(16091821)	650534.33	4191506.46	164.26217	(16040607)
650584.33	4191506.46	169.69788	(15102802)	650634.33	4191506.46	168.29165	(16101922)
650684.33	4191506.46	175.26526	(17121417)	650734.33	4191506.46	173.51843	(15100423)
650784.33	4191506.46	173.71308	(15030919)	650834.33	4191506.46	177.78081	(13012117)
650884.33	4191506.46	172.32525	(14122609)	650934.33	4191506.46	175.02402	(14010309)
650984.33	4191506.46	171.55469	(17032421)	651034.33	4191506.46	160.84944	(15051424)
651084.33	4191506.46	161.94838	(15092122)	651134.33	4191506.46	158.29048	(17031107)
651184.33	4191506.46	153.29159	(15022703)	651234.33	4191506.46	150.57599	(14021523)
651284.33	4191506.46	143.79858	(17011918)	651334.33	4191506.46	134.52971	(13012505)
650334.33	4191556.46	137.85964	(16103120)	650384.33	4191556.46	140.62976	(13092407)
650434.33	4191556.46	154.66872	(15091121)	650484.33	4191556.46	151.33322	(13081824)
650534.33	4191556.46	154.52954	(14102101)	650584.33	4191556.46	158.98340	(17031722)
650634.33	4191556.46	157.66729	(17040405)	650684.33	4191556.46	165.60126	(17121417)
650734.33	4191556.46	167.38770	(15100423)	650784.33	4191556.46	166.52441	(15030919)
650834.33	4191556.46	166.89291	(14012905)	650884.33	4191556.46	164.59251	(14121317)
650934.33	4191556.46	162.83558	(17011607)	650984.33	4191556.46	161.79892	(13022508)
651034.33	4191556.46	153.40696	(15011721)	651084.33	4191556.46	154.93858	(13020219)
651134.33	4191556.46	148.53412	(16121405)	651184.33	4191556.46	150.15398	(15020318)
651234.33	4191556.46	141.77951	(15022703)	651284.33	4191556.46	139.77450	(14021523)
651334.33	4191556.46	134.62929	(17011918)	650934.45	4191196.80	290.48561	(15121023)
650934.45	4191240.55	268.43568	(17102317)	651071.58	4191520.04	162.23203	(17121820)
650517.18	4191503.06	165.10414	(13081824)	650941.63	4190991.11	370.10044	(17121918)
650974.28	4190903.61	256.42290	(17031420)	650989.95	4190868.34	277.38513	(14020517)
651153.79	4190886.56	188.29689	(14010409)	651170.44	4190902.10	184.16747	(13081801)
651162.67	4190888.23	181.66383	(17030921)	651241.49	4191031.43	186.88141	(17091119)
650569.32	4190797.20	247.15895	(14010609)	650392.81	4190782.21	173.43860	(16032106)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***

INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	141.86943	(17011206)	650384.33	4190556.46	147.89880	(13010518)
650434.33	4190556.46	150.92274	(16121304)	650484.33	4190556.46	159.24722	(17122817)
650534.33	4190556.46	158.30779	(17041924)	650584.33	4190556.46	163.59965	(14120120)
650634.33	4190556.46	173.05079	(15022508)	650684.33	4190556.46	166.90030	(16041903)
650734.33	4190556.46	169.37812	(14030907)	650784.33	4190556.46	169.95363	(14122217)
650834.33	4190556.46	172.57504	(16020518)	650884.33	4190556.46	176.42097	(17121920)
650934.33	4190556.46	177.84829	(14121116)	650984.33	4190556.46	168.82499	(16012902)
651034.33	4190556.46	164.92992	(16041107)	651084.33	4190556.46	160.36388	(17011220)
651134.33	4190556.46	159.54103	(13122017)	651184.33	4190556.46	149.15425	(16021821)
651234.33	4190556.46	154.30145	(17122517)	651284.33	4190556.46	140.56132	(17030803)
651334.33	4190556.46	141.27860	(17120117)	650334.33	4190606.46	145.25546	(17020104)
650384.33	4190606.46	151.67579	(15120519)	650434.33	4190606.46	157.67473	(13010518)
650484.33	4190606.46	162.52630	(13022418)	650534.33	4190606.46	163.96255	(17122817)
650584.33	4190606.46	169.32149	(14032001)	650634.33	4190606.46	173.56608	(14041420)
650684.33	4190606.46	175.72620	(14041506)	650734.33	4190606.46	179.21368	(14120724)
650784.33	4190606.46	177.80105	(17122420)	650834.33	4190606.46	180.25502	(13040501)
650884.33	4190606.46	182.43834	(17121920)	650934.33	4190606.46	185.08154	(14121116)
650984.33	4190606.46	186.20350	(16041107)	651034.33	4190606.46	172.36732	(14021520)
651084.33	4190606.46	170.04779	(13122017)	651134.33	4190606.46	157.68330	(16090802)
651184.33	4190606.46	163.04263	(17122517)	651234.33	4190606.46	150.73539	(16031023)
651284.33	4190606.46	152.66060	(17120117)	651334.33	4190606.46	144.91247	(17012607)
650334.33	4190656.46	154.87137	(17020902)	650384.33	4190656.46	153.58875	(17020104)
650434.33	4190656.46	162.74275	(15120519)	650484.33	4190656.46	165.96409	(13010518)
650534.33	4190656.46	177.24285	(13022418)	650584.33	4190656.46	174.94520	(17041924)
650634.33	4190656.46	182.49961	(17041807)	650684.33	4190656.46	186.48952	(15022508)
650734.33	4190656.46	191.16321	(15040407)	650784.33	4190656.46	192.32578	(16021118)
650834.33	4190656.46	189.77082	(13040502)	650884.33	4190656.46	189.39283	(17040523)
650934.33	4190656.46	192.78960	(17021418)	650984.33	4190656.46	206.38715	(16041107)
651034.33	4190656.46	180.04071	(17011220)	651084.33	4190656.46	174.71903	(17011805)
651134.33	4190656.46	167.12688	(17041923)	651184.33	4190656.46	160.66747	(16031023)
651234.33	4190656.46	164.56293	(17120117)	651284.33	4190656.46	155.42103	(17012607)
651334.33	4190656.46	149.38361	(16021119)	650334.33	4190706.46	157.46587	(14021403)
650384.33	4190706.46	167.73529	(17020902)	650434.33	4190706.46	164.73619	(15041802)
650484.33	4190706.46	173.68174	(14010609)	650534.33	4190706.46	180.44315	(14010609)
650584.33	4190706.46	189.22105	(17022208)	650634.33	4190706.46	203.40628	(17041807)
650684.33	4190706.46	199.36980	(16091007)	650734.33	4190706.46	211.52723	(13090907)
650784.33	4190706.46	205.43899	(16021118)	650834.33	4190706.46	200.21359	(17090907)
650884.33	4190706.46	214.10126	(14091007)	650934.33	4190706.46	203.54668	(15021418)
650984.33	4190706.46	201.44520	(15090707)	651034.33	4190706.46	187.93283	(17021319)
651084.33	4190706.46	178.66252	(13013119)	651134.33	4190706.46	176.63943	(17122517)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	176.18695	(17120117)	651234.33	4190706.46	164.59134	(17012607)
651284.33	4190706.46	163.79834	(17031320)	651334.33	4190706.46	149.66114	(17031320)
650334.33	4190756.46	159.95852	(13041820)	650384.33	4190756.46	166.24254	(16032106)
650434.33	4190756.46	178.84556	(13010809)	650484.33	4190756.46	178.05738	(15041802)
650534.33	4190756.46	202.48247	(14010609)	650584.33	4190756.46	198.70333	(14010609)
650634.33	4190756.46	200.02984	(14040902)	650684.33	4190756.46	244.31395	(17041807)
650734.33	4190756.46	220.25353	(13090907)	650784.33	4190756.46	239.82968	(14032718)
650834.33	4190756.46	229.97520	(17090907)	650884.33	4190756.46	237.13566	(14091007)
650934.33	4190756.46	237.52947	(16041107)	650984.33	4190756.46	207.44846	(14040722)
651034.33	4190756.46	195.29248	(13051306)	651084.33	4190756.46	190.24103	(16021120)
651134.33	4190756.46	185.76850	(17120117)	651184.33	4190756.46	175.55005	(17030208)
651234.33	4190756.46	177.85735	(17011317)	651284.33	4190756.46	160.53730	(17013121)
651334.33	4190756.46	157.28202	(14043023)	650334.33	4190806.46	168.44088	(17021408)
650384.33	4190806.46	169.78873	(14120809)	650434.33	4190806.46	175.05977	(16020801)
650484.33	4190806.46	206.85527	(13010809)	650534.33	4190806.46	189.46004	(14041702)
650584.33	4190806.46	236.60546	(14010609)	650634.33	4190806.46	209.88233	(15032207)
650684.33	4190806.46	259.51475	(17041807)	650734.33	4190806.46	240.88281	(15091207)
650784.33	4190806.46	267.01722	(14032718)	650834.33	4190806.46	263.23511	(17090907)
650884.33	4190806.46	259.08422	(16121309)	650934.33	4190806.46	244.08135	(16041107)
650984.33	4190806.46	217.45748	(15092807)	651034.33	4190806.46	221.66119	(14020517)
651084.33	4190806.46	202.74972	(14020517)	651134.33	4190806.46	188.12424	(13021218)
651184.33	4190806.46	187.69291	(17021419)	651234.33	4190806.46	176.57029	(16021519)
651284.33	4190806.46	168.26288	(17121518)	651334.33	4190806.46	153.32746	(17121819)
650334.33	4190856.46	168.26887	(17041124)	650384.33	4190856.46	170.80979	(17120623)
650434.33	4190856.46	186.53141	(17021408)	650484.33	4190856.46	216.66251	(14120809)
650534.33	4190856.46	223.72411	(13010809)	650584.33	4190856.46	232.77011	(13010809)
650634.33	4190856.46	272.11157	(14010609)	650684.33	4190856.46	274.67345	(14041207)
650734.33	4190856.46	316.61905	(17041807)	650784.33	4190856.46	295.13383	(16040707)
650834.33	4190856.46	293.85968	(17032006)	650884.33	4190856.46	301.41627	(16121309)
650934.33	4190856.46	268.04185	(15032620)	650984.33	4190856.46	275.16990	(15102117)
651034.33	4190856.46	256.24092	(14020517)	651084.33	4190856.46	203.44442	(15100119)
651134.33	4190856.46	200.87861	(16052906)	651184.33	4190856.46	189.54987	(17121518)
651234.33	4190856.46	172.19715	(16021018)	651284.33	4190856.46	168.96664	(17030921)
651334.33	4190856.46	156.24853	(14041424)	650334.33	4190906.46	167.48768	(17031301)
650384.33	4190906.46	185.54892	(15010709)	650434.33	4190906.46	188.60872	(15010709)
650484.33	4190906.46	188.64700	(17041124)	650534.33	4190906.46	241.28388	(14120809)
650584.33	4190906.46	269.26910	(14120809)	650634.33	4190906.46	271.17427	(13010809)
650684.33	4190906.46	290.11954	(14010609)	650734.33	4190906.46	363.56661	(14041207)
650784.33	4190906.46	372.06608	(14031818)	650834.33	4190906.46	387.58621	(16040721)
650884.33	4190906.46	364.16151	(17031524)	650934.33	4190906.46	347.83758	(16090207)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	318.05108	(14020517)	651034.33	4190906.46	265.09697	(14040907)
651084.33	4190906.46	236.91408	(14010409)	651134.33	4190906.46	222.82310	(14010409)
651184.33	4190906.46	186.71179	(17102718)	651234.33	4190906.46	175.83506	(17021005)
651284.33	4190906.46	169.68192	(17021005)	651334.33	4190906.46	160.24657	(17021401)
650334.33	4190956.46	171.09031	(15021608)	650384.33	4190956.46	177.74356	(15021608)
650434.33	4190956.46	185.31513	(17011802)	650484.33	4190956.46	223.21489	(15010709)
650534.33	4190956.46	253.98524	(15010709)	650584.33	4190956.46	234.25685	(15010709)
650634.33	4190956.46	298.06500	(14120809)	650684.33	4190956.46	313.11215	(16122521)
650734.33	4190956.46	407.51171	(14120717)	650784.33	4190956.46	489.96771	(16031020)
650834.33	4190956.46	549.43529	(17012517)	650884.33	4190956.46	501.44440	(15031218)
650934.33	4190956.46	406.65454	(17120424)	650984.33	4190956.46	366.49179	(15091218)
651034.33	4190956.46	296.69757	(14010409)	651084.33	4190956.46	246.33901	(13011309)
651134.33	4190956.46	209.40412	(14011817)	651184.33	4190956.46	203.26102	(14091307)
651234.33	4190956.46	188.78829	(14091307)	651284.33	4190956.46	174.61647	(14091921)
651334.33	4190956.46	164.32511	(15072004)	650334.33	4191006.46	169.10965	(15030924)
650384.33	4191006.46	187.92977	(16122709)	650434.33	4191006.46	213.54954	(16122709)
650484.33	4191006.46	238.21815	(16122709)	650534.33	4191006.46	254.92732	(16122709)
650584.33	4191006.46	284.36401	(16020517)	650634.33	4191006.46	375.58303	(16020517)
650684.33	4191006.46	357.96547	(16020517)	650734.33	4191006.46	472.55098	(14091201)
650784.33	4191006.46	694.69878	(15091303)	650834.33	4191006.46	871.93044	(15062624)
650884.33	4191006.46	752.14457	(15092118)	650934.33	4191006.46	493.70620	(17071606)
650984.33	4191006.46	363.86003	(17080402)	651034.33	4191006.46	324.63167	(17122309)
651084.33	4191006.46	249.78246	(14091307)	651134.33	4191006.46	217.16709	(17061306)
651184.33	4191006.46	199.05830	(17080204)	651234.33	4191006.46	187.54641	(17080204)
651284.33	4191006.46	176.68913	(14073004)	651334.33	4191006.46	167.62614	(13070405)
650334.33	4191056.46	179.33629	(17012309)	650384.33	4191056.46	195.54970	(17012309)
650434.33	4191056.46	212.83060	(17012309)	650484.33	4191056.46	230.08564	(17012309)
650534.33	4191056.46	246.36135	(16122909)	650584.33	4191056.46	254.84685	(16122909)
650634.33	4191056.46	298.58372	(17010702)	650684.33	4191056.46	384.43850	(15022118)
650734.33	4191056.46	538.99302	(15022118)	650784.33	4191056.46	894.71027	(16050119)
650834.33	4191056.46	0.00000	(00000000)	650884.33	4191056.46	930.84678	(14080319)
650934.33	4191056.46	548.69736	(16031718)	650984.33	4191056.46	363.40616	(16022222)
651034.33	4191056.46	273.32893	(17022302)	651084.33	4191056.46	235.46878	(16062406)
651134.33	4191056.46	210.56610	(15090821)	651184.33	4191056.46	196.76200	(15091921)
651234.33	4191056.46	184.86645	(13031019)	651284.33	4191056.46	174.20464	(13031019)
651334.33	4191056.46	163.30448	(17013023)	650334.33	4191106.46	184.77640	(17013109)
650384.33	4191106.46	203.33770	(17013109)	650434.33	4191106.46	220.16636	(17013109)
650484.33	4191106.46	231.04879	(17013109)	650534.33	4191106.46	245.09445	(15013009)
650584.33	4191106.46	289.03128	(16123009)	650634.33	4191106.46	306.30463	(13010409)
650684.33	4191106.46	382.18343	(17021504)	650734.33	4191106.46	490.46147	(14030520)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	715.15354	(17021520)	650834.33	4191106.46	843.73298	(16031118)
650884.33	4191106.46	707.24726	(15101424)	650934.33	4191106.46	502.72299	(16091818)
650984.33	4191106.46	360.65821	(15120709)	651034.33	4191106.46	338.85894	(15120709)
651084.33	4191106.46	289.31242	(13040507)	651134.33	4191106.46	256.89341	(13040507)
651184.33	4191106.46	217.11305	(13040507)	651234.33	4191106.46	188.65175	(17022708)
651284.33	4191106.46	180.39575	(17022708)	651334.33	4191106.46	169.56325	(17022708)
650334.33	4191156.46	171.45177	(15013009)	650384.33	4191156.46	183.58258	(15013009)
650434.33	4191156.46	200.99337	(15122909)	650484.33	4191156.46	218.69278	(17122509)
650534.33	4191156.46	227.10905	(17122509)	650584.33	4191156.46	252.34300	(13020309)
650634.33	4191156.46	290.92202	(13020309)	650684.33	4191156.46	309.74147	(16121418)
650734.33	4191156.46	397.74515	(17020723)	650784.33	4191156.46	500.53233	(17022103)
650834.33	4191156.46	552.94601	(17020117)	650884.33	4191156.46	485.78165	(17030419)
650934.33	4191156.46	384.18703	(16120901)	650984.33	4191156.46	318.71797	(17011917)
651034.33	4191156.46	305.92573	(17122709)	651084.33	4191156.46	253.70656	(17013017)
651134.33	4191156.46	212.25226	(16012717)	651184.33	4191156.46	190.96532	(13030222)
651234.33	4191156.46	182.24415	(15091922)	651284.33	4191156.46	174.52250	(13010317)
651334.33	4191156.46	165.02196	(14120819)	650334.33	4191206.46	174.30525	(17022608)
650384.33	4191206.46	187.39168	(17022608)	650434.33	4191206.46	184.11153	(13110208)
650484.33	4191206.46	204.39898	(14030818)	650534.33	4191206.46	229.35103	(13020309)
650584.33	4191206.46	256.80622	(17122809)	650634.33	4191206.46	268.52193	(16030608)
650684.33	4191206.46	295.50097	(17103108)	650734.33	4191206.46	328.98043	(14032818)
650784.33	4191206.46	354.74564	(17012102)	650834.33	4191206.46	368.15450	(16121018)
650884.33	4191206.46	358.20582	(17010917)	650934.33	4191206.46	313.88881	(17041304)
650984.33	4191206.46	275.75162	(16090707)	651034.33	4191206.46	244.10355	(15022708)
651084.33	4191206.46	254.89924	(17122709)	651134.33	4191206.46	214.01548	(14012517)
651184.33	4191206.46	206.84423	(17013017)	651234.33	4191206.46	197.41244	(16012717)
651284.33	4191206.46	171.11399	(15021208)	651334.33	4191206.46	162.79766	(15120623)
650334.33	4191256.46	168.65161	(17032420)	650384.33	4191256.46	175.56777	(14030818)
650434.33	4191256.46	187.47035	(17020721)	650484.33	4191256.46	209.21682	(17040507)
650534.33	4191256.46	213.82116	(15010309)	650584.33	4191256.46	235.02595	(13103108)
650634.33	4191256.46	226.39933	(14040707)	650684.33	4191256.46	265.81690	(14122709)
650734.33	4191256.46	308.08130	(14032818)	650784.33	4191256.46	267.15870	(14103107)
650834.33	4191256.46	277.03448	(16121018)	650884.33	4191256.46	302.56892	(15020317)
650934.33	4191256.46	247.37001	(15070204)	650984.33	4191256.46	240.45693	(17102317)
651034.33	4191256.46	226.71683	(16090707)	651084.33	4191256.46	210.15514	(15022708)
651134.33	4191256.46	212.97660	(13122709)	651184.33	4191256.46	190.72902	(13122709)
651234.33	4191256.46	176.11549	(15011517)	651284.33	4191256.46	169.24433	(15022308)
651334.33	4191256.46	165.67236	(16012717)	650334.33	4191306.46	169.81422	(17020721)
650384.33	4191306.46	176.69540	(17040507)	650434.33	4191306.46	175.24548	(15020908)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	199.07451	(16022308)	650634.33	4191306.46	218.98351	(16110408)
650684.33	4191306.46	232.54476	(14032818)	650734.33	4191306.46	283.87049	(14120909)
650784.33	4191306.46	245.05713	(15103117)	650834.33	4191306.46	230.54817	(17121917)
650884.33	4191306.46	278.33206	(14122609)	650934.33	4191306.46	231.84173	(16053106)
650984.33	4191306.46	240.77314	(17102317)	651034.33	4191306.46	217.98048	(17040807)
651084.33	4191306.46	191.47611	(17042204)	651134.33	4191306.46	190.08775	(17042923)
651184.33	4191306.46	185.05264	(17061906)	651234.33	4191306.46	176.32822	(13122709)
651284.33	4191306.46	169.01052	(15031322)	651334.33	4191306.46	159.85242	(15011517)
650334.33	4191356.46	152.77819	(15100104)	650384.33	4191356.46	164.77355	(13091907)
650434.33	4191356.46	163.63906	(13010418)	650484.33	4191356.46	180.56630	(15091220)
650534.33	4191356.46	182.27807	(16022308)	650584.33	4191356.46	184.88504	(14122019)
650634.33	4191356.46	207.84292	(16110408)	650684.33	4191356.46	220.05324	(16121409)
650734.33	4191356.46	225.08766	(14120909)	650784.33	4191356.46	205.98667	(16120917)
650834.33	4191356.46	211.01787	(14032807)	650884.33	4191356.46	253.22254	(14122609)
650934.33	4191356.46	222.63357	(14010309)	650984.33	4191356.46	195.04765	(13092819)
651034.33	4191356.46	210.46097	(17102317)	651084.33	4191356.46	202.90359	(17040807)
651134.33	4191356.46	177.12529	(14021523)	651184.33	4191356.46	172.75923	(17042923)
651234.33	4191356.46	168.50798	(15042724)	651284.33	4191356.46	162.11264	(16092620)
651334.33	4191356.46	154.45729	(13020120)	650334.33	4191406.46	148.77109	(13091907)
650384.33	4191406.46	152.73615	(15102307)	650434.33	4191406.46	170.17406	(15091220)
650484.33	4191406.46	167.89418	(14120419)	650534.33	4191406.46	169.72771	(16021522)
650584.33	4191406.46	193.26739	(16110408)	650634.33	4191406.46	195.74595	(15011809)
650684.33	4191406.46	213.90506	(14120909)	650734.33	4191406.46	193.02736	(17121921)
650784.33	4191406.46	191.69153	(14122220)	650834.33	4191406.46	194.21849	(14051306)
650884.33	4191406.46	217.48221	(14122609)	650934.33	4191406.46	209.95793	(14010309)
650984.33	4191406.46	189.06951	(16053106)	651034.33	4191406.46	185.89977	(13092819)
651084.33	4191406.46	181.28363	(16092007)	651134.33	4191406.46	181.82443	(17040807)
651184.33	4191406.46	168.26471	(14021523)	651234.33	4191406.46	159.77129	(15030420)
651284.33	4191406.46	155.53314	(17012922)	651334.33	4191406.46	148.26472	(13120224)
650334.33	4191456.46	144.01261	(15102307)	650384.33	4191456.46	157.99485	(15091220)
650434.33	4191456.46	156.87721	(14120419)	650484.33	4191456.46	156.65790	(13110708)
650534.33	4191456.46	178.85562	(15091121)	650584.33	4191456.46	177.20788	(13081824)
650634.33	4191456.46	178.61706	(15102802)	650684.33	4191456.46	189.09304	(14120909)
650734.33	4191456.46	188.56522	(17121417)	650784.33	4191456.46	179.22035	(15100423)
650834.33	4191456.46	183.49687	(13010917)	650884.33	4191456.46	183.31541	(13012117)
650934.33	4191456.46	180.51209	(14010309)	650984.33	4191456.46	183.49355	(13022508)
651034.33	4191456.46	171.46415	(14021524)	651084.33	4191456.46	172.70867	(15092122)
651134.33	4191456.46	171.03365	(15020318)	651184.33	4191456.46	160.95911	(17040807)

651234.33	4191456.46	157.42178	(14021523)	651284.33	4191456.46	149.20280	(15030420)
651334.33	4191456.46	144.77544	(16011924)	650334.33	4191506.46	145.71231	(15091220)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK3 ***
INCLUDING SOURCE(S): STCK3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	145.61649	(14120419)	650434.33	4191506.46	147.67295	(16103120)
650484.33	4191506.46	163.68761	(15091121)	650534.33	4191506.46	162.35179	(13081824)
650584.33	4191506.46	162.81998	(15011809)	650634.33	4191506.46	169.38805	(17031722)
650684.33	4191506.46	169.22724	(17031721)	650734.33	4191506.46	173.28627	(17121417)
650784.33	4191506.46	169.54629	(15100423)	650834.33	4191506.46	174.71905	(13010917)
650884.33	4191506.46	176.20422	(13012117)	650934.33	4191506.46	166.52851	(15120722)
650984.33	4191506.46	170.69143	(14010309)	651034.33	4191506.46	165.09400	(16020921)
651084.33	4191506.46	164.42370	(13020219)	651134.33	4191506.46	159.07874	(16121405)
651184.33	4191506.46	161.34753	(15020318)	651234.33	4191506.46	150.13635	(13121017)
651284.33	4191506.46	146.58277	(17011918)	651334.33	4191506.46	138.22115	(15030420)
650334.33	4191556.46	134.84928	(14120419)	650384.33	4191556.46	138.18085	(16103120)
650434.33	4191556.46	146.74425	(15091121)	650484.33	4191556.46	152.51178	(16091821)
650534.33	4191556.46	152.53420	(16040607)	650584.33	4191556.46	158.63233	(15102802)
650634.33	4191556.46	157.99786	(16100903)	650684.33	4191556.46	161.40228	(15020721)
650734.33	4191556.46	158.68922	(15102102)	650784.33	4191556.46	160.64469	(16022401)
650834.33	4191556.46	165.03603	(13010917)	650884.33	4191556.46	166.36990	(13012117)
650934.33	4191556.46	161.78668	(16020924)	650984.33	4191556.46	164.95225	(13110617)
651034.33	4191556.46	163.43552	(17032421)	651084.33	4191556.46	153.04218	(17031007)
651134.33	4191556.46	153.43437	(13022108)	651184.33	4191556.46	149.91821	(17120123)
651234.33	4191556.46	148.24407	(15020318)	651284.33	4191556.46	139.94366	(13121017)
651334.33	4191556.46	136.68600	(17011918)	650934.45	4191196.80	320.01474	(17041304)
650934.45	4191240.55	266.44419	(17010123)	651071.58	4191520.04	158.41933	(15051424)
650517.18	4191503.06	164.74091	(16091821)	650941.63	4190991.11	455.00687	(17010505)
650974.28	4190903.61	347.18558	(14020517)	650989.95	4190868.34	299.28585	(14020517)
651153.79	4190886.56	210.86741	(14010409)	651170.44	4190902.10	190.73033	(17102718)
651162.67	4190888.23	205.50242	(14010409)	651241.49	4191031.43	195.59167	(17091119)
650569.32	4190797.20	220.11805	(14010609)	650392.81	4190782.21	167.97734	(16020801)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***
INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	139.71609	(15120820)	650384.33	4190556.46	145.18675	(17020104)
650434.33	4190556.46	151.49164	(15120519)	650484.33	4190556.46	155.54539	(13010518)
650534.33	4190556.46	165.34174	(13022418)	650584.33	4190556.46	163.25491	(14032102)
650634.33	4190556.46	171.41943	(13032724)	650684.33	4190556.46	181.01444	(15022508)
650734.33	4190556.46	174.78493	(14041506)	650784.33	4190556.46	179.81470	(14030907)
650834.33	4190556.46	179.57203	(16040207)	650884.33	4190556.46	183.39431	(17121817)
650934.33	4190556.46	176.14932	(17040523)	650984.33	4190556.46	185.84346	(17021418)
651034.33	4190556.46	190.46680	(16041107)	651084.33	4190556.46	173.96078	(14021520)
651134.33	4190556.46	171.40490	(13122017)	651184.33	4190556.46	157.00264	(17041904)
651234.33	4190556.46	165.04622	(17122517)	651284.33	4190556.46	153.10195	(17120117)
651334.33	4190556.46	146.96290	(17120117)	650334.33	4190606.46	149.78726	(14021403)
650384.33	4190606.46	153.13275	(17020902)	650434.33	4190606.46	154.38341	(17020104)
650484.33	4190606.46	162.15697	(15120519)	650534.33	4190606.46	167.34702	(15120208)
650584.33	4190606.46	174.98416	(17022208)	650634.33	4190606.46	177.66523	(17041924)
650684.33	4190606.46	188.16210	(14041420)	650734.33	4190606.46	184.46090	(13040403)
650784.33	4190606.46	189.05747	(14040903)	650834.33	4190606.46	191.10217	(16040207)
650884.33	4190606.46	194.44938	(17121817)	650934.33	4190606.46	193.24509	(14091007)
650984.33	4190606.46	190.08842	(15021418)	651034.33	4190606.46	197.05188	(16041107)
651084.33	4190606.46	178.07552	(17011220)	651134.33	4190606.46	170.90785	(17011805)
651184.33	4190606.46	173.20542	(17122517)	651234.33	4190606.46	161.79382	(17120117)
651284.33	4190606.46	158.00528	(17120117)	651334.33	4190606.46	155.50952	(17012607)
650334.33	4190656.46	149.05795	(14033104)	650384.33	4190656.46	160.70379	(14021403)
650434.33	4190656.46	168.15089	(17020902)	650484.33	4190656.46	166.50609	(14022024)
650534.33	4190656.46	182.95569	(14010609)	650584.33	4190656.46	178.37903	(15120208)
650634.33	4190656.46	189.64648	(17022208)	650684.33	4190656.46	212.17759	(17041807)
650734.33	4190656.46	198.12183	(15022508)	650784.33	4190656.46	207.59918	(13090907)
650834.33	4190656.46	199.33431	(16021118)	650884.33	4190656.46	203.27901	(17121817)
650934.33	4190656.46	213.15835	(14091007)	650984.33	4190656.46	212.95336	(16041107)
651034.33	4190656.46	200.27293	(15090707)	651084.33	4190656.46	183.89617	(17021319)
651134.33	4190656.46	180.97603	(17041923)	651184.33	4190656.46	171.58663	(15020524)
651234.33	4190656.46	168.66036	(17120117)	651284.33	4190656.46	163.04461	(17012607)
651334.33	4190656.46	164.12613	(17031320)	650334.33	4190706.46	152.58727	(16021508)
650384.33	4190706.46	160.39005	(13041820)	650434.33	4190706.46	168.29163	(16030403)
650484.33	4190706.46	179.79289	(17020902)	650534.33	4190706.46	179.03187	(15041802)
650584.33	4190706.46	213.65988	(14010609)	650634.33	4190706.46	192.51577	(15032207)
650684.33	4190706.46	198.13050	(17041807)	650734.33	4190706.46	228.56643	(17041807)
650784.33	4190706.46	229.87078	(13090907)	650834.33	4190706.46	226.22415	(14032718)
650884.33	4190706.46	226.35290	(17011209)	650934.33	4190706.46	225.67213	(14091007)
650984.33	4190706.46	242.31264	(16041107)	651034.33	4190706.46	204.36612	(14022219)
651084.33	4190706.46	191.22035	(15021218)	651134.33	4190706.46	192.41719	(14020517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	179.53371	(16041802)	651234.33	4190706.46	174.88229	(17030208)
651284.33	4190706.46	174.58839	(17011317)	651334.33	4190706.46	160.06121	(17013121)
650334.33	4190756.46	160.14583	(17021408)	650384.33	4190756.46	167.71624	(17021408)
650434.33	4190756.46	172.11506	(14120809)	650484.33	4190756.46	178.15529	(13122309)
650534.33	4190756.46	210.14053	(13010809)	650584.33	4190756.46	190.66727	(15041802)
650634.33	4190756.46	249.73121	(14010609)	650684.33	4190756.46	207.68667	(14041207)
650734.33	4190756.46	281.52372	(17041807)	650784.33	4190756.46	241.03375	(15091207)
650834.33	4190756.46	268.23991	(14032718)	650884.33	4190756.46	259.32230	(17011209)
650934.33	4190756.46	262.31004	(16121309)	650984.33	4190756.46	231.81437	(15090707)
651034.33	4190756.46	219.51243	(16090207)	651084.33	4190756.46	233.80488	(14020517)
651134.33	4190756.46	195.40239	(17032807)	651184.33	4190756.46	188.27226	(17032505)
651234.33	4190756.46	182.51934	(17021419)	651284.33	4190756.46	176.76045	(14043023)
651334.33	4190756.46	163.19633	(17121518)	650334.33	4190806.46	158.43245	(17032324)
650384.33	4190806.46	169.89739	(17041124)	650434.33	4190806.46	176.50468	(17021408)
650484.33	4190806.46	194.25768	(14120809)	650534.33	4190806.46	216.64356	(14120809)
650584.33	4190806.46	236.04752	(13010809)	650634.33	4190806.46	215.83559	(13010809)
650684.33	4190806.46	285.93839	(14010609)	650734.33	4190806.46	289.47524	(14041207)
650784.33	4190806.46	281.35742	(17041807)	650834.33	4190806.46	292.50221	(14032718)
650884.33	4190806.46	296.60312	(14102217)	650934.33	4190806.46	324.58062	(13030408)
650984.33	4190806.46	265.75110	(17011319)	651034.33	4190806.46	275.92608	(14020517)
651084.33	4190806.46	224.70007	(14020517)	651134.33	4190806.46	201.62558	(14042024)
651184.33	4190806.46	195.91052	(16052906)	651234.33	4190806.46	186.05349	(17121518)
651284.33	4190806.46	170.94894	(14041501)	651334.33	4190806.46	166.77176	(17030921)
650334.33	4190856.46	163.66428	(17031301)	650384.33	4190856.46	170.96205	(15010709)
650434.33	4190856.46	188.00299	(15010709)	650484.33	4190856.46	187.04543	(17032324)
650534.33	4190856.46	192.97198	(15042719)	650584.33	4190856.46	255.28880	(14120809)
650634.33	4190856.46	258.37526	(14120809)	650684.33	4190856.46	257.84340	(13010809)
650734.33	4190856.46	298.64278	(14010609)	650784.33	4190856.46	331.65114	(13030720)
650834.33	4190856.46	369.76835	(13032819)	650884.33	4190856.46	359.84281	(15062924)
650934.33	4190856.46	364.85803	(13022818)	650984.33	4190856.46	339.06960	(15102117)
651034.33	4190856.46	272.00111	(14020517)	651084.33	4190856.46	252.81498	(14040907)
651134.33	4190856.46	241.46166	(14010409)	651184.33	4190856.46	211.58258	(14010409)
651234.33	4190856.46	186.06156	(13081801)	651284.33	4190856.46	176.23018	(17021005)
651334.33	4190856.46	166.99777	(17042120)	650334.33	4190906.46	161.18104	(15021608)
650384.33	4190906.46	173.15026	(15021608)	650434.33	4190906.46	177.92618	(15021608)
650484.33	4190906.46	191.75710	(16020517)	650534.33	4190906.46	231.82552	(15010709)
650584.33	4190906.46	255.53981	(15010709)	650634.33	4190906.46	232.07515	(17020106)
650684.33	4190906.46	311.59409	(14120809)	650734.33	4190906.46	329.19627	(16030302)
650784.33	4190906.46	422.94100	(13030719)	650834.33	4190906.46	507.82674	(14031818)
650884.33	4190906.46	545.43715	(15031103)	650934.33	4190906.46	484.26183	(17031119)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	390.77939	(17011217)	651034.33	4190906.46	352.73195	(15091218)
651084.33	4190906.46	280.70112	(14010409)	651134.33	4190906.46	232.75388	(13011309)
651184.33	4190906.46	203.76217	(14011817)	651234.33	4190906.46	201.34455	(14091307)
651284.33	4190906.46	184.53456	(14091307)	651334.33	4190906.46	171.77994	(14091921)
650334.33	4190956.46	164.08864	(15030924)	650384.33	4190956.46	170.60494	(14122109)
650434.33	4190956.46	193.17000	(16122709)	650484.33	4190956.46	218.95351	(16122709)
650534.33	4190956.46	242.78934	(16122709)	650584.33	4190956.46	256.37778	(16122709)
650634.33	4190956.46	304.77917	(16020517)	650684.33	4190956.46	387.45500	(16020517)
650734.33	4190956.46	394.37177	(17020119)	650784.33	4190956.46	512.48500	(14091201)
650834.33	4190956.46	726.71217	(15091303)	650884.33	4190956.46	912.63925	(15092018)
650934.33	4190956.46	686.83291	(15031918)	650984.33	4190956.46	462.59040	(17061723)
651034.33	4190956.46	342.16802	(17122309)	651084.33	4190956.46	310.07599	(17122309)
651134.33	4190956.46	240.65758	(14091307)	651184.33	4190956.46	212.03738	(13110508)
651234.33	4190956.46	197.12835	(17080204)	651284.33	4190956.46	184.52996	(17080204)
651334.33	4190956.46	174.46296	(13070405)	650334.33	4191006.46	167.64213	(17012309)
650384.33	4191006.46	182.73737	(17012309)	650434.33	4191006.46	199.23993	(17012309)
650484.33	4191006.46	216.66142	(17012309)	650534.33	4191006.46	233.67555	(17012309)
650584.33	4191006.46	249.06192	(16122909)	650634.33	4191006.46	254.51730	(16122909)
650684.33	4191006.46	312.56721	(17010702)	650734.33	4191006.46	414.68015	(15022118)
650784.33	4191006.46	569.50312	(15103023)	650834.33	4191006.46	914.21085	(16050119)
650884.33	4191006.46	94.91815	(13011710)	650934.33	4191006.46	823.37772	(14080319)
650984.33	4191006.46	495.31001	(17091620)	651034.33	4191006.46	340.08064	(13032901)
651084.33	4191006.46	261.04256	(17022302)	651134.33	4191006.46	229.50557	(16062406)
651184.33	4191006.46	206.82440	(15090821)	651234.33	4191006.46	194.15465	(15091921)
651284.33	4191006.46	182.73985	(13031019)	651334.33	4191006.46	171.91686	(13031019)
650334.33	4191056.46	170.38597	(17013109)	650384.33	4191056.46	188.76060	(17013109)
650434.33	4191056.46	207.15789	(17013109)	650484.33	4191056.46	223.13338	(17013109)
650534.33	4191056.46	231.84534	(17013109)	650584.33	4191056.46	253.09184	(16123009)
650634.33	4191056.46	296.41213	(16123009)	650684.33	4191056.46	314.21278	(17021503)
650734.33	4191056.46	394.76778	(17021504)	650784.33	4191056.46	538.14641	(14120401)
650834.33	4191056.46	772.07460	(15120909)	650884.33	4191056.46	828.08059	(15020818)
650934.33	4191056.46	649.60396	(13120217)	650984.33	4191056.46	474.29771	(16091818)
651034.33	4191056.46	370.58576	(15120709)	651084.33	4191056.46	321.09165	(15120709)
651134.33	4191056.46	284.07550	(13040507)	651184.33	4191056.46	248.62177	(13040507)
651234.33	4191056.46	209.05307	(13040507)	651284.33	4191056.46	187.17754	(17022708)
651334.33	4191056.46	178.20922	(17022708)	650334.33	4191106.46	166.80492	(17040504)
650384.33	4191106.46	174.41928	(15013009)	650434.33	4191106.46	186.32281	(15122909)
650484.33	4191106.46	203.73577	(15122909)	650534.33	4191106.46	223.04315	(17122509)
650584.33	4191106.46	227.15857	(13110208)	650634.33	4191106.46	267.99837	(13020309)
650684.33	4191106.46	310.03904	(17122809)	650734.33	4191106.46	337.10013	(13110108)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	409.62152	(13062505)	650834.33	4191106.46	513.52645	(17020219)
650884.33	4191106.46	528.93540	(17090119)	650934.33	4191106.46	470.98848	(17012021)
650984.33	4191106.46	377.18849	(17010121)	651034.33	4191106.46	328.93772	(17122709)
651084.33	4191106.46	279.43409	(17122709)	651134.33	4191106.46	247.76179	(17013017)
651184.33	4191106.46	206.87457	(13011617)	651234.33	4191106.46	188.98035	(14012521)
651284.33	4191106.46	180.96335	(15091922)	651334.33	4191106.46	172.13921	(13010317)
650334.33	4191156.46	165.87106	(17011123)	650384.33	4191156.46	178.44012	(17022608)
650434.33	4191156.46	187.52703	(17022608)	650484.33	4191156.46	184.99648	(17010618)
650534.33	4191156.46	210.27763	(13020309)	650584.33	4191156.46	228.50118	(13020309)
650634.33	4191156.46	256.24402	(17122809)	650684.33	4191156.46	276.34169	(17040407)
650734.33	4191156.46	296.22826	(17103108)	650784.33	4191156.46	379.93078	(14032818)
650834.33	4191156.46	354.10285	(15031421)	650884.33	4191156.46	377.95865	(17021003)
650934.33	4191156.46	345.03101	(17010917)	650984.33	4191156.46	292.70998	(17041304)
651034.33	4191156.46	283.32708	(16090707)	651084.33	4191156.46	229.69058	(13122709)
651134.33	4191156.46	253.69925	(17122709)	651184.33	4191156.46	203.82387	(14012517)
651234.33	4191156.46	204.94661	(17013017)	651284.33	4191156.46	192.87160	(16012717)
651334.33	4191156.46	169.48001	(15021208)	650334.33	4191206.46	160.21713	(17031723)
650384.33	4191206.46	170.15491	(17032420)	650434.33	4191206.46	178.71521	(17010901)
650484.33	4191206.46	191.04726	(17040507)	650534.33	4191206.46	207.57884	(17040507)
650584.33	4191206.46	209.21853	(15010309)	650634.33	4191206.46	233.39617	(13103108)
650684.33	4191206.46	228.62347	(17103108)	650734.33	4191206.46	270.69792	(14122709)
650784.33	4191206.46	299.55385	(14120909)	650834.33	4191206.46	272.79483	(17120302)
650884.33	4191206.46	282.89390	(17032204)	650934.33	4191206.46	269.66336	(15020317)
650984.33	4191206.46	250.82007	(17102317)	651034.33	4191206.46	232.48880	(17040807)
651084.33	4191206.46	231.36591	(16090707)	651134.33	4191206.46	206.34209	(17091207)
651184.33	4191206.46	213.51894	(13122709)	651234.33	4191206.46	187.53304	(15031322)
651284.33	4191206.46	175.43237	(15011517)	651334.33	4191206.46	170.19372	(15022308)
650334.33	4191256.46	160.82664	(17020721)	650384.33	4191256.46	169.22156	(17020721)
650434.33	4191256.46	178.34865	(17040507)	650484.33	4191256.46	178.71654	(13091907)
650534.33	4191256.46	183.48984	(13103108)	650584.33	4191256.46	194.63975	(14040707)
650634.33	4191256.46	201.09328	(17012317)	650684.33	4191256.46	233.10917	(16110408)
650734.33	4191256.46	244.84700	(14032818)	650784.33	4191256.46	272.30378	(14120909)
650834.33	4191256.46	225.61671	(15022808)	650884.33	4191256.46	245.33914	(15012717)
650934.33	4191256.46	251.20432	(14122609)	650984.33	4191256.46	224.09501	(16053106)
651034.33	4191256.46	243.89613	(17102317)	651084.33	4191256.46	225.22640	(17040807)
651134.33	4191256.46	191.99417	(13100518)	651184.33	4191256.46	185.23487	(17042923)
651234.33	4191256.46	182.90534	(17061906)	651284.33	4191256.46	172.33636	(13122709)
651334.33	4191256.46	166.56519	(15031322)	650334.33	4191306.46	151.18550	(17030206)
650384.33	4191306.46	155.83737	(15100104)	650434.33	4191306.46	166.67253	(13091907)
650484.33	4191306.46	167.67200	(15012017)	650534.33	4191306.46	185.40604	(15091220)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	182.12684	(16022308)	650634.33	4191306.46	196.99469	(16110408)
650684.33	4191306.46	203.56709	(13081824)	650734.33	4191306.46	226.81495	(14120909)
650784.33	4191306.46	203.79108	(17121921)	650834.33	4191306.46	209.25281	(15091607)
650884.33	4191306.46	224.09942	(15012717)	650934.33	4191306.46	247.38370	(14122609)
650984.33	4191306.46	210.09093	(16053106)	651034.33	4191306.46	201.87589	(13092819)
651084.33	4191306.46	201.30400	(17102317)	651134.33	4191306.46	203.06248	(17040807)
651184.33	4191306.46	173.20661	(17011918)	651234.33	4191306.46	171.10400	(17042923)
651284.33	4191306.46	168.05253	(15042724)	651334.33	4191306.46	158.95127	(16092620)
650334.33	4191356.46	143.59303	(15100104)	650384.33	4191356.46	147.74080	(13091907)
650434.33	4191356.46	156.05452	(15102307)	650484.33	4191356.46	173.02114	(15091220)
650534.33	4191356.46	166.96926	(16103120)	650584.33	4191356.46	174.25812	(15091121)
650634.33	4191356.46	191.29433	(15011709)	650684.33	4191356.46	197.68460	(15011809)
650734.33	4191356.46	218.72540	(14120909)	650784.33	4191356.46	197.76542	(17121417)
650834.33	4191356.46	191.22083	(16031106)	650884.33	4191356.46	200.78268	(15012717)
650934.33	4191356.46	222.89524	(14122609)	650984.33	4191356.46	209.87048	(14010309)
651034.33	4191356.46	184.91861	(15011721)	651084.33	4191356.46	186.00099	(15092122)
651134.33	4191356.46	182.76643	(16092007)	651184.33	4191356.46	178.94267	(17040807)
651234.33	4191356.46	166.57668	(17011918)	651284.33	4191356.46	154.97887	(15030420)
651334.33	4191356.46	152.71590	(17012922)	650334.33	4191406.46	137.01414	(14122717)
650384.33	4191406.46	145.37113	(15102307)	650434.33	4191406.46	159.51486	(15091220)
650484.33	4191406.46	155.39606	(16103120)	650534.33	4191406.46	158.97888	(13092407)
650584.33	4191406.46	177.49880	(15091121)	650634.33	4191406.46	176.67129	(16040607)
650684.33	4191406.46	179.38749	(17031722)	650734.33	4191406.46	182.66016	(17031721)
650784.33	4191406.46	184.57920	(17121417)	650834.33	4191406.46	180.19955	(16031106)
650884.33	4191406.46	184.48714	(13010917)	650934.33	4191406.46	193.25318	(14122609)
650984.33	4191406.46	190.18013	(14010309)	651034.33	4191406.46	178.59143	(17032421)
651084.33	4191406.46	173.63720	(14021524)	651134.33	4191406.46	170.41770	(16091807)
651184.33	4191406.46	172.31183	(15020318)	651234.33	4191406.46	159.60911	(13121017)
651284.33	4191406.46	157.32814	(17011918)	651334.33	4191406.46	146.04398	(15030420)
650334.33	4191456.46	133.90552	(17031502)	650384.33	4191456.46	146.35475	(15091220)
650434.33	4191456.46	143.66426	(16103120)	650484.33	4191456.46	147.78572	(13092407)
650534.33	4191456.46	166.42437	(15091121)	650584.33	4191456.46	164.34128	(13081824)
650634.33	4191456.46	164.45853	(14102101)	650684.33	4191456.46	166.58898	(14120909)
650734.33	4191456.46	172.64844	(15020721)	650784.33	4191456.46	166.79308	(15120707)
650834.33	4191456.46	169.46088	(15102306)	650884.33	4191456.46	176.07310	(13010917)
650934.33	4191456.46	176.35565	(17120719)	650984.33	4191456.46	169.40682	(14111319)
651034.33	4191456.46	173.35148	(13022508)	651084.33	4191456.46	164.20460	(15011721)
651134.33	4191456.46	164.85929	(17121820)	651184.33	4191456.46	159.61697	(17120123)
651234.33	4191456.46	158.95408	(15020318)	651284.33	4191456.46	148.87350	(13121017)
651334.33	4191456.46	147.26819	(17011918)	650334.33	4191506.46	134.13809	(15091220)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK4 ***

INCLUDING SOURCE(S): STCK4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	132.97369	(14120419)	650434.33	4191506.46	136.00696	(13092407)
650484.33	4191506.46	151.57515	(15091121)	650534.33	4191506.46	149.09939	(16031102)
650584.33	4191506.46	152.23115	(15050720)	650634.33	4191506.46	160.38948	(17031722)
650684.33	4191506.46	159.60209	(16100903)	650734.33	4191506.46	164.64439	(16071404)
650784.33	4191506.46	160.55817	(13122120)	650834.33	4191506.46	163.48887	(15030919)
650884.33	4191506.46	166.57767	(13010917)	650934.33	4191506.46	165.40281	(17120719)
650984.33	4191506.46	160.51833	(15120722)	651034.33	4191506.46	163.10470	(13110617)
651084.33	4191506.46	161.09841	(17032421)	651134.33	4191506.46	152.71490	(13020219)
651184.33	4191506.46	150.90735	(15092122)	651234.33	4191506.46	149.58860	(17031107)
651284.33	4191506.46	144.08541	(15022703)	651334.33	4191506.46	138.47713	(14021523)
650334.33	4191556.46	123.32159	(14120419)	650384.33	4191556.46	127.46766	(16103120)
650434.33	4191556.46	136.03590	(15091121)	650484.33	4191556.46	142.82900	(16091821)
650534.33	4191556.46	141.19276	(15011808)	650584.33	4191556.46	145.95541	(14102101)
650634.33	4191556.46	148.68839	(17031722)	650684.33	4191556.46	152.08285	(17020407)
650734.33	4191556.46	155.53472	(14120504)	650784.33	4191556.46	156.29382	(15100423)
650834.33	4191556.46	157.94308	(15030919)	650884.33	4191556.46	156.87710	(13010917)
650934.33	4191556.46	154.59830	(17021222)	650984.33	4191556.46	152.75552	(17122703)
651034.33	4191556.46	154.36307	(13110617)	651084.33	4191556.46	153.30491	(17032421)
651134.33	4191556.46	142.51879	(17031007)	651184.33	4191556.46	145.27841	(13020219)
651234.33	4191556.46	138.61904	(16121405)	651284.33	4191556.46	138.86295	(15020318)
651334.33	4191556.46	134.49442	(15022703)	650934.45	4191196.80	287.22846	(17010917)
650934.45	4191240.55	254.79631	(15020317)	651071.58	4191520.04	159.96210	(17032421)
650517.18	4191503.06	154.10797	(16091821)	650941.63	4190991.11	745.02951	(17072721)
650974.28	4190903.61	399.17844	(17120424)	650989.95	4190868.34	353.42387	(14020517)
651153.79	4190886.56	217.69811	(13011309)	651170.44	4190902.10	210.25706	(14011817)
651162.67	4190888.23	210.92106	(13011309)	651241.49	4191031.43	203.72271	(17022708)
650569.32	4190797.20	227.48151	(13010809)	650392.81	4190782.21	172.02671	(17021408)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

650334.33	4190556.46	261.18828	(13021704)	650384.33	4190556.46	279.42000	(15010508)
650434.33	4190556.46	296.21060	(16020321)	650484.33	4190556.46	315.44799	(14022101)
650534.33	4190556.46	317.84988	(15122802)	650584.33	4190556.46	358.85445	(13012423)
650634.33	4190556.46	375.05857	(17121508)	650684.33	4190556.46	386.99049	(15022608)
650734.33	4190556.46	431.75594	(17122918)	650784.33	4190556.46	430.12740	(16012703)
650834.33	4190556.46	449.91109	(15010901)	650884.33	4190556.46	511.10370	(17011609)
650934.33	4190556.46	526.99951	(17123009)	650984.33	4190556.46	497.97706	(17011719)
651034.33	4190556.46	517.69154	(17122917)	651084.33	4190556.46	489.81564	(17013024)
651134.33	4190556.46	472.21712	(17122319)	651184.33	4190556.46	462.19523	(17122920)
651234.33	4190556.46	410.75139	(17012903)	651284.33	4190556.46	396.01765	(17020801)
651334.33	4190556.46	367.81111	(17120120)	650334.33	4190606.46	272.98887	(13010908)
650384.33	4190606.46	296.46222	(13010906)	650434.33	4190606.46	318.05295	(15010508)
650484.33	4190606.46	339.48471	(16020321)	650534.33	4190606.46	360.04913	(14022101)
650584.33	4190606.46	379.79688	(15010507)	650634.33	4190606.46	416.65805	(14021122)
650684.33	4190606.46	434.93459	(13020306)	650734.33	4190606.46	485.90177	(17123007)
650784.33	4190606.46	484.78283	(14021105)	650834.33	4190606.46	515.45718	(17011302)
650884.33	4190606.46	582.56426	(17011609)	650934.33	4190606.46	594.35603	(17123009)
650984.33	4190606.46	561.25728	(17011719)	651034.33	4190606.46	590.68103	(17122917)
651084.33	4190606.46	550.16627	(17012520)	651134.33	4190606.46	538.13177	(17012804)
651184.33	4190606.46	495.57202	(17012903)	651234.33	4190606.46	482.94552	(17020801)
651284.33	4190606.46	424.97665	(17120120)	651334.33	4190606.46	384.19960	(17011508)
650334.33	4190656.46	287.48950	(13012121)	650384.33	4190656.46	314.74028	(13010908)
650434.33	4190656.46	339.72321	(13010906)	650484.33	4190656.46	366.29444	(15010508)
650534.33	4190656.46	394.73301	(16020321)	650584.33	4190656.46	421.26383	(15122802)
650634.33	4190656.46	460.03423	(15010507)	650684.33	4190656.46	496.45456	(13123108)
650734.33	4190656.46	514.77207	(15022608)	650784.33	4190656.46	575.66717	(17122918)
650834.33	4190656.46	581.13358	(14120620)	650884.33	4190656.46	661.89149	(17011609)
650934.33	4190656.46	677.33571	(17123009)	650984.33	4190656.46	637.83434	(17011719)
651034.33	4190656.46	666.24901	(17122917)	651084.33	4190656.46	636.95022	(17012520)
651134.33	4190656.46	614.77971	(17122518)	651184.33	4190656.46	538.55477	(17012903)
651234.33	4190656.46	483.45674	(17020801)	651284.33	4190656.46	447.41987	(17011508)
651334.33	4190656.46	428.66098	(17012908)	650334.33	4190706.46	310.73499	(17120517)
650384.33	4190706.46	329.69104	(17123107)	650434.33	4190706.46	361.05166	(13012105)
650484.33	4190706.46	394.53894	(14120608)	650534.33	4190706.46	427.76869	(15010508)
650584.33	4190706.46	467.22886	(16020321)	650634.33	4190706.46	504.76886	(15122802)
650684.33	4190706.46	557.21773	(13012423)	650734.33	4190706.46	594.65911	(13020306)
650784.33	4190706.46	668.95890	(17123007)	650834.33	4190706.46	675.20193	(16012703)
650884.33	4190706.46	745.09829	(17011609)	650934.33	4190706.46	781.26164	(17123009)
650984.33	4190706.46	738.87735	(15011509)	651034.33	4190706.46	735.06237	(17122917)
651084.33	4190706.46	734.21153	(17122319)	651134.33	4190706.46	674.54462	(17012903)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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651184.33	4190706.46	645.22609	(17020801)	651234.33	4190706.46	561.66352	(17120120)
651284.33	4190706.46	503.13473	(17012908)	651334.33	4190706.46	437.00371	(17120121)
650334.33	4190756.46	343.24433	(17121504)	650384.33	4190756.46	375.49450	(17120517)
650434.33	4190756.46	379.84374	(15010907)	650484.33	4190756.46	420.69166	(13012105)
650534.33	4190756.46	464.81323	(14120608)	650584.33	4190756.46	512.78189	(14021223)
650634.33	4190756.46	565.67287	(16020321)	650684.33	4190756.46	612.21262	(15122802)
650734.33	4190756.46	687.06485	(14021122)	650784.33	4190756.46	735.44458	(15022608)
650834.33	4190756.46	790.56575	(14021105)	650884.33	4190756.46	851.53379	(14012501)
650934.33	4190756.46	913.72139	(17123009)	650984.33	4190756.46	881.73142	(15011509)
651034.33	4190756.46	914.01113	(17013024)	651084.33	4190756.46	874.03572	(17122620)
651134.33	4190756.46	779.03458	(17020801)	651184.33	4190756.46	700.86033	(17120120)
651234.33	4190756.46	597.69289	(17012908)	651284.33	4190756.46	529.24099	(17120121)
651334.33	4190756.46	479.54783	(17122320)	650334.33	4190806.46	357.37723	(17021420)
650384.33	4190806.46	390.19986	(17013106)	650434.33	4190806.46	431.68941	(17121504)
650484.33	4190806.46	473.33526	(17120517)	650534.33	4190806.46	497.90218	(17123107)
650584.33	4190806.46	561.59124	(13010908)	650634.33	4190806.46	628.22150	(14021223)
650684.33	4190806.46	705.39435	(15021803)	650734.33	4190806.46	768.24741	(15010507)
650784.33	4190806.46	877.34603	(13123108)	650834.33	4190806.46	996.72314	(17123007)
650884.33	4190806.46	1051.41276	(15012509)	650934.33	4190806.46	1096.96207	(17122820)
650984.33	4190806.46	1098.04788	(17122917)	651034.33	4190806.46	1122.32714	(17012520)
651084.33	4190806.46	1033.60392	(17122920)	651134.33	4190806.46	899.82069	(17020801)
651184.33	4190806.46	767.59369	(17011508)	651234.33	4190806.46	663.71857	(17012908)
651284.33	4190806.46	609.55221	(17122320)	651334.33	4190806.46	561.45220	(17121219)
650334.33	4190856.46	381.85932	(17021308)	650384.33	4190856.46	409.30231	(17120203)
650434.33	4190856.46	457.71948	(17021420)	650484.33	4190856.46	506.59029	(17013106)
650534.33	4190856.46	571.36895	(17120517)	650584.33	4190856.46	608.66596	(15010907)
650634.33	4190856.46	699.55661	(13012105)	650684.33	4190856.46	800.08922	(13021704)
650734.33	4190856.46	921.29357	(15021803)	650784.33	4190856.46	1057.83250	(15010507)
650834.33	4190856.46	1183.62919	(15022608)	650884.33	4190856.46	1304.93889	(16012703)
650934.33	4190856.46	1430.50398	(17011609)	650984.33	4190856.46	1491.22478	(17122917)
651034.33	4190856.46	1399.31592	(17122319)	651084.33	4190856.46	1260.14604	(17020801)
651134.33	4190856.46	1023.44018	(17011508)	651184.33	4190856.46	871.63995	(17012908)
651234.33	4190856.46	795.38272	(17122320)	651284.33	4190856.46	699.85781	(17121219)
651334.33	4190856.46	683.38120	(17011509)	650334.33	4190906.46	385.51500	(17123023)
650384.33	4190906.46	423.38058	(17123023)	650434.33	4190906.46	491.20750	(17021308)
650484.33	4190906.46	541.83098	(17021308)	650534.33	4190906.46	613.11751	(17021420)
650584.33	4190906.46	698.27604	(17013106)	650634.33	4190906.46	820.49631	(17120517)
650684.33	4190906.46	894.87517	(17123107)	650734.33	4190906.46	1073.24904	(13010906)
650784.33	4190906.46	1278.22112	(16010309)	650834.33	4190906.46	1503.14938	(14021122)
650884.33	4190906.46	1764.27314	(17122918)	650934.33	4190906.46	2005.79993	(17011609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

650984.33	4190906.46	2057.30355 (17122917)	651034.33	4190906.46	1853.04333 (17122920)
651084.33	4190906.46	1518.47048 (17120120)	651134.33	4190906.46	1215.22474 (17012908)
651184.33	4190906.46	1067.70319 (17122320)	651234.33	4190906.46	949.61733 (17011509)
651284.33	4190906.46	832.39243 (17011509)	651334.33	4190906.46	564.16665 (17011509)
650334.33	4190956.46	395.92187 (17013105)	650384.33	4190956.46	434.18293 (17012823)
650434.33	4190956.46	491.94622 (17121207)	650484.33	4190956.46	555.44913 (17123023)
650534.33	4190956.46	642.82458 (17123023)	650584.33	4190956.46	773.49210 (17021308)
650634.33	4190956.46	886.99381 (17120203)	650684.33	4190956.46	1058.70287 (17013106)
650734.33	4190956.46	1286.63547 (17120517)	650784.33	4190956.46	1537.42301 (14120608)
650834.33	4190956.46	1967.13094 (16010309)	650884.33	4190956.46	2407.91392 (15022608)
650934.33	4190956.46	2915.85338 (17011609)	650984.33	4190956.46	2824.31018 (17013024)
651034.33	4190956.46	2476.63373 (17020801)	651084.33	4190956.46	1858.56407 (17012908)
651134.33	4190956.46	1509.17293 (17121219)	651184.33	4190956.46	1349.53718 (17011509)
651234.33	4190956.46	867.90498 (17011509)	651284.33	4190956.46	661.16591 (17122619)
651334.33	4190956.46	562.33114 (17020824)	650334.33	4191006.46	395.34968 (17022506)
650384.33	4191006.46	450.34161 (17022506)	650434.33	4191006.46	510.24172 (17022506)
650484.33	4191006.46	572.03450 (17022506)	650534.33	4191006.46	668.20008 (17013105)
650584.33	4191006.46	782.37539 (17013105)	650634.33	4191006.46	939.95237 (17121207)
650684.33	4191006.46	1159.77836 (17123023)	650734.33	4191006.46	1495.45749 (17021308)
650784.33	4191006.46	1908.85612 (17013106)	650834.33	4191006.46	2483.26050 (13012105)
650884.33	4191006.46	3491.30814 (16010309)	650934.33	4191006.46	4633.83666 (15012509)
650984.33	4191006.46	4441.96093 (17012804)	651034.33	4191006.46	3318.98954 (17012908)
651084.33	4191006.46	2563.64477 (17011509)	651134.33	4191006.46	1564.44031 (17011509)
651184.33	4191006.46	1103.69872 (17020824)	651234.33	4191006.46	844.43320 (17011303)
651284.33	4191006.46	687.43650 (17121319)	651334.33	4191006.46	583.82578 (17121319)
650334.33	4191056.46	405.19156 (17013008)	650384.33	4191056.46	452.43512 (17013008)
650434.33	4191056.46	508.53495 (17013008)	650484.33	4191056.46	575.62109 (17013008)
650534.33	4191056.46	667.83174 (17121807)	650584.33	4191056.46	801.53323 (17121807)
650634.33	4191056.46	973.26778 (17121807)	650684.33	4191056.46	1196.11145 (17122902)
650734.33	4191056.46	1578.41954 (17022506)	650784.33	4191056.46	2140.09986 (17013105)
650834.33	4191056.46	3122.23531 (17123023)	650884.33	4191056.46	4944.28917 (17013106)
650934.33	4191056.46	7641.11639 (14070606)	650984.33	4191056.46	7147.49000 (14021107)
651034.33	4191056.46	4093.98809 (17122619)	651084.33	4191056.46	2350.00303 (17011303)
651134.33	4191056.46	1585.42798 (17010504)	651184.33	4191056.46	1205.56911 (17122519)
651234.33	4191056.46	926.90502 (17122519)	651284.33	4191056.46	732.95526 (17122719)
651334.33	4191056.46	602.32905 (17122719)	650334.33	4191106.46	407.32132 (17120922)
650384.33	4191106.46	457.32534 (17120922)	650434.33	4191106.46	518.38431 (17120922)
650484.33	4191106.46	597.55641 (17013107)	650534.33	4191106.46	698.87298 (17013107)
650584.33	4191106.46	831.16599 (17013107)	650634.33	4191106.46	1008.94926 (17013107)
650684.33	4191106.46	1256.12418 (17013107)	650734.33	4191106.46	1613.19165 (17013107)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	2210.28243	(17122903)	650834.33	4191106.46	3286.29383	(17121322)
650884.33	4191106.46	5238.97446	(17122608)	650934.33	4191106.46	11645.53770	(15110108)
650984.33	4191106.46	8661.28423	(17113008)	651034.33	4191106.46	4384.92992	(14010519)
651084.33	4191106.46	2516.07451	(14021603)	651134.33	4191106.46	1722.68537	(14022208)
651184.33	4191106.46	1274.04382	(14022208)	651234.33	4191106.46	986.74837	(14022208)
651284.33	4191106.46	791.62147	(14022208)	651334.33	4191106.46	652.54125	(14022208)
650334.33	4191156.46	406.64348	(17121322)	650384.33	4191156.46	460.11027	(17121322)
650434.33	4191156.46	521.04783	(17121322)	650484.33	4191156.46	589.15686	(17121322)
650534.33	4191156.46	676.55295	(17120702)	650584.33	4191156.46	786.16754	(17120702)
650634.33	4191156.46	885.11759	(17120702)	650684.33	4191156.46	1135.48935	(17122608)
650734.33	4191156.46	1498.25528	(17011201)	650784.33	4191156.46	2039.19061	(17121007)
650834.33	4191156.46	2847.07278	(17122609)	650884.33	4191156.46	3450.62378	(17121324)
650934.33	4191156.46	4931.77200	(15122702)	650984.33	4191156.46	4879.48715	(17122223)
651034.33	4191156.46	3539.60631	(17022407)	651084.33	4191156.46	2191.97148	(17120617)
651134.33	4191156.46	1541.06613	(14010220)	651184.33	4191156.46	1161.55475	(15010317)
651234.33	4191156.46	905.87356	(15122617)	651284.33	4191156.46	728.38485	(14010519)
651334.33	4191156.46	597.60275	(14010519)	650334.33	4191206.46	381.88938	(17120702)
650384.33	4191206.46	404.18417	(17013104)	650434.33	4191206.46	466.19987	(17122608)
650484.33	4191206.46	544.42343	(17122608)	650534.33	4191206.46	632.66017	(17123105)
650584.33	4191206.46	768.28832	(17011201)	650634.33	4191206.46	921.93652	(17120707)
650684.33	4191206.46	1113.98463	(17020404)	650734.33	4191206.46	1285.70474	(17120905)
650784.33	4191206.46	1349.10206	(17120624)	650834.33	4191206.46	1723.91763	(17123021)
650884.33	4191206.46	2287.81753	(17122724)	650934.33	4191206.46	2875.84655	(17122622)
650984.33	4191206.46	2901.89769	(17120207)	651034.33	4191206.46	2403.41797	(17022706)
651084.33	4191206.46	1905.85994	(17022407)	651134.33	4191206.46	1439.09515	(17121119)
651184.33	4191206.46	1035.67921	(17120617)	651234.33	4191206.46	835.98920	(14022106)
651284.33	4191206.46	686.67933	(14010220)	651334.33	4191206.46	591.80729	(15010317)
650334.33	4191256.46	376.25193	(17123105)	650384.33	4191256.46	416.40796	(17011201)
650434.33	4191256.46	488.13928	(17011201)	650484.33	4191256.46	552.71836	(17120707)
650534.33	4191256.46	637.58687	(17121007)	650584.33	4191256.46	735.33420	(17020404)
650634.33	4191256.46	793.53865	(17120905)	650684.33	4191256.46	852.26592	(17043004)
650734.33	4191256.46	880.90896	(17120208)	650784.33	4191256.46	1085.50910	(17123021)
650834.33	4191256.46	1286.30445	(16120505)	650884.33	4191256.46	1752.24369	(17120219)
650934.33	4191256.46	1917.64619	(17020802)	650984.33	4191256.46	1910.12332	(17120207)
651034.33	4191256.46	1632.80359	(17121904)	651084.33	4191256.46	1498.93164	(17012601)
651134.33	4191256.46	1202.18678	(17022407)	651184.33	4191256.46	993.23064	(17123020)
651234.33	4191256.46	787.58857	(17121119)	651284.33	4191256.46	634.46782	(17120617)
651334.33	4191256.46	545.78129	(13020908)	650334.33	4191306.46	378.71537	(17120707)
650384.33	4191306.46	423.50988	(17122805)	650434.33	4191306.46	474.53048	(17121007)
650484.33	4191306.46	528.83690	(17020404)	650534.33	4191306.46	553.74428	(17120905)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	596.83646	(17043004)	650634.33	4191306.46	580.55615	(17120624)
650684.33	4191306.46	636.03256	(15022507)	650734.33	4191306.46	765.95657	(17123021)
650784.33	4191306.46	915.87182	(17020506)	650834.33	4191306.46	1095.19120	(17022607)
650884.33	4191306.46	1160.10973	(17120705)	650934.33	4191306.46	1378.22195	(17120618)
650984.33	4191306.46	1261.44269	(17012905)	651034.33	4191306.46	1305.49935	(17022508)
651084.33	4191306.46	1176.81157	(17021405)	651134.33	4191306.46	999.37715	(17012601)
651184.33	4191306.46	838.88701	(17022407)	651234.33	4191306.46	689.02787	(17123020)
651284.33	4191306.46	638.78553	(17121119)	651334.33	4191306.46	507.66728	(14012706)
650334.33	4191356.46	367.08658	(17020404)	650384.33	4191356.46	402.78211	(17020404)
650434.33	4191356.46	415.85971	(17120905)	650484.33	4191356.46	443.11341	(17043004)
650534.33	4191356.46	428.69501	(17043004)	650584.33	4191356.46	447.30682	(17121808)
650634.33	4191356.46	509.33225	(17121324)	650684.33	4191356.46	579.36241	(17123021)
650734.33	4191356.46	686.94000	(17020506)	650784.33	4191356.46	749.60784	(17122724)
650834.33	4191356.46	921.13146	(17120619)	650884.33	4191356.46	926.61357	(17012717)
650934.33	4191356.46	1031.28669	(17120618)	650984.33	4191356.46	950.49804	(17021222)
651034.33	4191356.46	982.15302	(17121401)	651084.33	4191356.46	877.16181	(17121904)
651134.33	4191356.46	819.26598	(17022706)	651184.33	4191356.46	749.19513	(17122321)
651234.33	4191356.46	628.41265	(17120205)	651284.33	4191356.46	561.74114	(17022407)
651334.33	4191356.46	515.66121	(17123020)	650334.33	4191406.46	327.87533	(17120905)
650384.33	4191406.46	344.10539	(17043004)	650434.33	4191406.46	349.93643	(17043004)
650484.33	4191406.46	344.06290	(17120624)	650534.33	4191406.46	365.74629	(17120208)
650584.33	4191406.46	418.34100	(17121324)	650634.33	4191406.46	459.10598	(17123021)
650684.33	4191406.46	535.43220	(17122909)	650734.33	4191406.46	546.65522	(16020808)
650784.33	4191406.46	679.29745	(17022607)	650834.33	4191406.46	735.48796	(17120219)
650884.33	4191406.46	783.86024	(17012717)	650934.33	4191406.46	799.46166	(17120618)
650984.33	4191406.46	783.02566	(17012720)	651034.33	4191406.46	792.04207	(17120207)
651084.33	4191406.46	769.66534	(17022508)	651134.33	4191406.46	708.94857	(17021405)
651184.33	4191406.46	633.33392	(17012601)	651234.33	4191406.46	592.48395	(17122321)
651284.33	4191406.46	501.01602	(17120205)	651334.33	4191406.46	471.12510	(17022407)
650334.33	4191456.46	289.10845	(17043004)	650384.33	4191456.46	270.86661	(17120624)
650434.33	4191456.46	287.35055	(17121808)	650484.33	4191456.46	302.86445	(15022507)
650534.33	4191456.46	349.13312	(17121324)	650584.33	4191456.46	376.12667	(17123021)
650634.33	4191456.46	432.78280	(17122909)	650684.33	4191456.46	438.27141	(15022501)
650734.33	4191456.46	496.25839	(17122724)	650784.33	4191456.46	589.56846	(17120619)
650834.33	4191456.46	567.11686	(17120705)	650884.33	4191456.46	645.51905	(17012717)
650934.33	4191456.46	648.79457	(17121308)	650984.33	4191456.46	664.55697	(17012720)
651034.33	4191456.46	687.53377	(17120207)	651084.33	4191456.46	644.00796	(17022508)
651134.33	4191456.46	569.26049	(17121904)	651184.33	4191456.46	564.68025	(17021405)
651234.33	4191456.46	526.43013	(17012601)	651284.33	4191456.46	481.72525	(17122321)
651334.33	4191456.46	412.00659	(17120205)	650334.33	4191506.46	235.27710	(17120624)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK5 ***

INCLUDING SOURCE(S): STCK5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	245.80095	(17120208)	650434.33	4191506.46	258.84015	(15022507)
650484.33	4191506.46	295.68629	(17121324)	650534.33	4191506.46	315.93524	(17123021)
650584.33	4191506.46	357.86607	(17122909)	650634.33	4191506.46	370.70668	(17123104)
650684.33	4191506.46	402.55736	(17122724)	650734.33	4191506.46	474.74381	(17022607)
650784.33	4191506.46	517.75461	(17120219)	650834.33	4191506.46	476.50024	(15021408)
650884.33	4191506.46	530.92449	(17122622)	650934.33	4191506.46	551.22872	(17122408)
650984.33	4191506.46	571.44383	(17012720)	651034.33	4191506.46	572.64278	(17120207)
651084.33	4191506.46	528.77228	(17121401)	651134.33	4191506.46	507.82075	(17022508)
651184.33	4191506.46	478.54623	(17021405)	651234.33	4191506.46	446.29552	(17022706)
651284.33	4191506.46	435.26911	(17012601)	651334.33	4191506.46	400.60370	(17122321)
650334.33	4191556.46	213.89145	(17120208)	650384.33	4191556.46	227.30490	(17123024)
650434.33	4191556.46	253.69582	(17121324)	650484.33	4191556.46	270.57634	(17123021)
650534.33	4191556.46	301.52783	(17122909)	650584.33	4191556.46	318.93793	(17020506)
650634.33	4191556.46	324.73073	(16020808)	650684.33	4191556.46	354.66197	(17121506)
650734.33	4191556.46	417.97023	(17120619)	650784.33	4191556.46	414.35993	(17120219)
650834.33	4191556.46	435.56279	(17012717)	650884.33	4191556.46	468.09207	(17020802)
650934.33	4191556.46	479.52261	(17122408)	650984.33	4191556.46	497.31323	(17012720)
651034.33	4191556.46	469.19039	(17012905)	651084.33	4191556.46	464.84501	(17121401)
651134.33	4191556.46	466.77059	(17022508)	651184.33	4191556.46	408.78917	(17121904)
651234.33	4191556.46	418.83848	(17021405)	651284.33	4191556.46	378.18426	(17022706)
651334.33	4191556.46	361.23434	(17012601)	650934.45	4191196.80	3193.08621	(17122622)
650934.45	4191240.55	2164.81849	(17020802)	651071.58	4191520.04	518.32165	(17121401)
650517.18	4191503.06	297.60255	(14121304)	650941.63	4190991.11	3999.68371	(17011609)
650974.28	4190903.61	1892.70926	(17122917)	650989.95	4190868.34	1631.62946	(17122917)
651153.79	4190886.56	1059.71291	(17012908)	651170.44	4190902.10	1052.19124	(17122320)
651162.67	4190888.23	977.52445	(17120121)	651241.49	4191031.43	846.45365	(17121319)
650569.32	4190797.20	535.50597	(13010908)	650392.81	4190782.21	387.29785	(17121504)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	261.22102	(13021704)	650384.33	4190556.46	279.23402	(15010508)
650434.33	4190556.46	296.18641	(16020321)	650484.33	4190556.46	314.89579	(14022101)
650534.33	4190556.46	316.68199	(15122802)	650584.33	4190556.46	358.39791	(13012423)
650634.33	4190556.46	374.68333	(17121508)	650684.33	4190556.46	385.76770	(15022608)
650734.33	4190556.46	431.54781	(17122918)	650784.33	4190556.46	429.98815	(16012703)
650834.33	4190556.46	449.08687	(15010901)	650884.33	4190556.46	510.05850	(17011609)
650934.33	4190556.46	527.41286	(17123009)	650984.33	4190556.46	496.52535	(17011719)

651034.33	4190556.46	516.96252	(17122917)	651084.33	4190556.46	489.02671	(17013024)
651134.33	4190556.46	471.45382	(17122319)	651184.33	4190556.46	461.38142	(17122920)
651234.33	4190556.46	410.07895	(17012903)	651284.33	4190556.46	395.50211	(17020801)
651334.33	4190556.46	367.28998	(17120120)	650334.33	4190606.46	272.94155	(14120608)
650384.33	4190606.46	296.16326	(13010906)	650434.33	4190606.46	317.93899	(15010508)
650484.33	4190606.46	339.39656	(16020321)	650534.33	4190606.46	359.10272	(14022101)
650584.33	4190606.46	380.45689	(15010507)	650634.33	4190606.46	415.85913	(14021122)
650684.33	4190606.46	433.78037	(13020306)	650734.33	4190606.46	485.69717	(17123007)
650784.33	4190606.46	484.38173	(14021105)	650834.33	4190606.46	514.62875	(17011302)
650884.33	4190606.46	581.74957	(17011609)	650934.33	4190606.46	594.95146	(17123009)
650984.33	4190606.46	559.30934	(17011719)	651034.33	4190606.46	589.40957	(17122917)
651084.33	4190606.46	549.34820	(17012520)	651134.33	4190606.46	537.04528	(17012804)
651184.33	4190606.46	494.64515	(17012903)	651234.33	4190606.46	482.07362	(17020801)
651284.33	4190606.46	424.13922	(17120120)	651334.33	4190606.46	383.58568	(17011508)
650334.33	4190656.46	287.70118	(13012105)	650384.33	4190656.46	314.46449	(13010908)
650434.33	4190656.46	339.68247	(13010906)	650484.33	4190656.46	366.31399	(15010508)
650534.33	4190656.46	394.53755	(16020321)	650584.33	4190656.46	421.29453	(15122802)
650634.33	4190656.46	459.97361	(15010507)	650684.33	4190656.46	495.82724	(13123108)
650734.33	4190656.46	512.99578	(15022608)	650784.33	4190656.46	574.23147	(17122918)
650834.33	4190656.46	580.63663	(14120620)	650884.33	4190656.46	661.56573	(17011609)
650934.33	4190656.46	678.21451	(17123009)	650984.33	4190656.46	635.17239	(17011719)
651034.33	4190656.46	664.20845	(17122917)	651084.33	4190656.46	635.41273	(17012520)
651134.33	4190656.46	613.42989	(17122518)	651184.33	4190656.46	537.48882	(17012903)
651234.33	4190656.46	482.83081	(17020801)	651284.33	4190656.46	446.41293	(17011508)
651334.33	4190656.46	427.71557	(17012908)	650334.33	4190706.46	309.49673	(17120517)
650384.33	4190706.46	329.62102	(17123107)	650434.33	4190706.46	361.03484	(13010908)
650484.33	4190706.46	394.16450	(14120608)	650534.33	4190706.46	428.03359	(15010508)
650584.33	4190706.46	466.84775	(16020321)	650634.33	4190706.46	504.15159	(15122802)
650684.33	4190706.46	556.76478	(13012423)	650734.33	4190706.46	593.67107	(13020306)
650784.33	4190706.46	667.81238	(17123007)	650834.33	4190706.46	674.41849	(16012703)
650884.33	4190706.46	745.70616	(17011609)	650934.33	4190706.46	782.60001	(17123009)
650984.33	4190706.46	736.86638	(15011509)	651034.33	4190706.46	731.98861	(17122917)
651084.33	4190706.46	732.55056	(17122319)	651134.33	4190706.46	672.97956	(17012903)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	643.89087	(17020801)	651234.33	4190706.46	560.71142	(17120120)
651284.33	4190706.46	501.74375	(17012908)	651334.33	4190706.46	436.44416	(17120121)
650334.33	4190756.46	342.97823	(17121504)	650384.33	4190756.46	375.10913	(17120517)
650434.33	4190756.46	379.21319	(15010907)	650484.33	4190756.46	421.06765	(13012105)
650534.33	4190756.46	465.09259	(14120608)	650584.33	4190756.46	512.37829	(14021223)
650634.33	4190756.46	564.95561	(16020321)	650684.33	4190756.46	610.30543	(15122802)

650734.33	4190756.46	685.21496	(14021122)	650784.33	4190756.46	732.62424	(15022608)
650834.33	4190756.46	790.10303	(14021105)	650884.33	4190756.46	849.44992	(14012501)
650934.33	4190756.46	915.84433	(17123009)	650984.33	4190756.46	878.52529	(15011509)
651034.33	4190756.46	911.79884	(17013024)	651084.33	4190756.46	871.81719	(17122620)
651134.33	4190756.46	776.84564	(17020801)	651184.33	4190756.46	698.99944	(17120120)
651234.33	4190756.46	595.59079	(17012908)	651284.33	4190756.46	528.41220	(17120121)
651334.33	4190756.46	477.60115	(17122320)	650334.33	4190806.46	356.91486	(17021420)
650384.33	4190806.46	389.72553	(17013106)	650434.33	4190806.46	431.00969	(17121504)
650484.33	4190806.46	471.91097	(17120517)	650534.33	4190806.46	497.63914	(17123107)
650584.33	4190806.46	560.65209	(13010908)	650634.33	4190806.46	628.38239	(14021223)
650684.33	4190806.46	705.64980	(15021803)	650734.33	4190806.46	770.29977	(15010507)
650784.33	4190806.46	874.29312	(17121508)	650834.33	4190806.46	992.42877	(17123007)
650884.33	4190806.46	1048.51768	(15012509)	650934.33	4190806.46	1092.42676	(17122820)
650984.33	4190806.46	1097.77995	(17122917)	651034.33	4190806.46	1118.96504	(17012520)
651084.33	4190806.46	1030.22306	(17122920)	651134.33	4190806.46	897.73555	(17020801)
651184.33	4190806.46	765.97367	(17011508)	651234.33	4190806.46	663.35983	(17012908)
651284.33	4190806.46	607.14761	(17122320)	651334.33	4190806.46	559.83759	(17121219)
650334.33	4190856.46	381.39506	(17021308)	650384.33	4190856.46	409.88889	(17120203)
650434.33	4190856.46	457.46127	(17021420)	650484.33	4190856.46	505.93239	(17013106)
650534.33	4190856.46	572.48900	(17120517)	650584.33	4190856.46	608.01071	(15010907)
650634.33	4190856.46	698.85013	(13012105)	650684.33	4190856.46	799.59951	(13021704)
650734.33	4190856.46	920.77188	(15021803)	650784.33	4190856.46	1056.12391	(15010507)
650834.33	4190856.46	1178.48297	(15022608)	650884.33	4190856.46	1300.44461	(16012703)
650934.33	4190856.46	1419.98347	(17011609)	650984.33	4190856.46	1488.29615	(17122917)
651034.33	4190856.46	1394.20379	(17122319)	651084.33	4190856.46	1255.41495	(17020801)
651134.33	4190856.46	1019.68478	(17011508)	651184.33	4190856.46	870.79196	(17012908)
651234.33	4190856.46	792.49637	(17122320)	651284.33	4190856.46	698.76673	(17121219)
651334.33	4190856.46	681.49748	(17011509)	650334.33	4190906.46	385.95279	(17123023)
650384.33	4190906.46	422.58337	(17123023)	650434.33	4190906.46	491.74477	(17021308)
650484.33	4190906.46	540.29594	(17021308)	650534.33	4190906.46	613.56495	(17021420)
650584.33	4190906.46	697.29503	(17013106)	650634.33	4190906.46	820.41170	(17120517)
650684.33	4190906.46	893.67481	(17123107)	650734.33	4190906.46	1072.46240	(13010906)
650784.33	4190906.46	1278.52126	(16010309)	650834.33	4190906.46	1495.93361	(14021122)
650884.33	4190906.46	1753.62726	(17122918)	650934.33	4190906.46	1992.66081	(17011609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	2047.67252	(17122917)	651034.33	4190906.46	1844.45847	(17122920)
651084.33	4190906.46	1512.13438	(17120120)	651134.33	4190906.46	1213.19775	(17012908)
651184.33	4190906.46	1064.66375	(17122320)	651234.33	4190906.46	944.34312	(17011509)
651284.33	4190906.46	832.37237	(17011509)	651334.33	4190906.46	566.73845	(17011509)
650334.33	4190956.46	395.85793	(17013105)	650384.33	4190956.46	435.02116	(17012823)

650434.33	4190956.46	492.67963	(17121207)	650484.33	4190956.46	556.99293	(17123023)
650534.33	4190956.46	641.76887	(17123023)	650584.33	4190956.46	773.69474	(17021308)
650634.33	4190956.46	887.56758	(17120203)	650684.33	4190956.46	1057.06604	(17013106)
650734.33	4190956.46	1280.10677	(17120517)	650784.33	4190956.46	1539.18687	(14120608)
650834.33	4190956.46	1962.16661	(16010309)	650884.33	4190956.46	2396.36290	(15022608)
650934.33	4190956.46	2904.64347	(17011609)	650984.33	4190956.46	2811.55120	(17013024)
651034.33	4190956.46	2463.21858	(17020801)	651084.33	4190956.46	1853.16270	(17012908)
651134.33	4190956.46	1501.36239	(17121219)	651184.33	4190956.46	1346.51753	(17011509)
651234.33	4190956.46	872.34902	(17011509)	651284.33	4190956.46	661.49482	(17122619)
651334.33	4190956.46	561.71074	(17020824)	650334.33	4191006.46	396.50125	(17022506)
650384.33	4191006.46	451.07766	(17022506)	650434.33	4191006.46	510.23592	(17022506)
650484.33	4191006.46	570.79366	(17022506)	650534.33	4191006.46	669.53461	(17013105)
650584.33	4191006.46	781.05748	(17013105)	650634.33	4191006.46	940.95380	(17121207)
650684.33	4191006.46	1158.91264	(17123023)	650734.33	4191006.46	1491.59047	(17021308)
650784.33	4191006.46	1905.54473	(17013106)	650834.33	4191006.46	2488.85685	(13012105)
650884.33	4191006.46	3455.17450	(16010309)	650934.33	4191006.46	4597.94299	(15012509)
650984.33	4191006.46	4411.98945	(17012804)	651034.33	4191006.46	3300.95849	(17012908)
651084.33	4191006.46	2541.63676	(17011509)	651134.33	4191006.46	1574.33039	(17011509)
651184.33	4191006.46	1099.76543	(17020824)	651234.33	4191006.46	840.89711	(17011303)
651284.33	4191006.46	684.14741	(17121319)	651334.33	4191006.46	583.29818	(17121319)
650334.33	4191056.46	405.25589	(17013008)	650384.33	4191056.46	452.23521	(17013008)
650434.33	4191056.46	507.91793	(17013008)	650484.33	4191056.46	574.34063	(17013008)
650534.33	4191056.46	670.33583	(17121807)	650584.33	4191056.46	803.49468	(17121807)
650634.33	4191056.46	973.74293	(17121807)	650684.33	4191056.46	1196.16561	(17122902)
650734.33	4191056.46	1580.44915	(17022506)	650784.33	4191056.46	2146.22294	(17013105)
650834.33	4191056.46	3137.50867	(17123023)	650884.33	4191056.46	4943.23885	(17121504)
650934.33	4191056.46	7786.69241	(14011009)	650984.33	4191056.46	7084.61108	(14021107)
651034.33	4191056.46	4067.89650	(17122619)	651084.33	4191056.46	2345.51339	(17011303)
651134.33	4191056.46	1580.29304	(17010504)	651184.33	4191056.46	1200.86976	(17122519)
651234.33	4191056.46	926.83000	(17122519)	651284.33	4191056.46	731.69144	(17122719)
651334.33	4191056.46	602.39185	(17122719)	650334.33	4191106.46	407.09440	(17120922)
650384.33	4191106.46	457.20549	(17120922)	650434.33	4191106.46	518.44397	(17120922)
650484.33	4191106.46	596.58822	(17013107)	650534.33	4191106.46	698.10012	(17013107)
650584.33	4191106.46	830.84876	(17013107)	650634.33	4191106.46	1009.62995	(17013107)
650684.33	4191106.46	1259.00240	(17013107)	650734.33	4191106.46	1621.15947	(17013107)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	2216.76601	(17122903)	650834.33	4191106.46	3300.02439	(17121322)
650884.33	4191106.46	5231.86258	(17122608)	650934.33	4191106.46	11723.30715	(15110108)
650984.33	4191106.46	8646.95221	(17091405)	651034.33	4191106.46	4369.57436	(14010519)
651084.33	4191106.46	2507.53053	(14021603)	651134.33	4191106.46	1727.14074	(14022208)

651184.33	4191106.46	1274.16058	(14022208)	651234.33	4191106.46	985.56090	(14022208)
651284.33	4191106.46	790.08252	(14022208)	651334.33	4191106.46	650.97911	(14022208)
650334.33	4191156.46	407.13696	(17122903)	650384.33	4191156.46	460.14223	(17121322)
650434.33	4191156.46	521.71628	(17121322)	650484.33	4191156.46	590.83292	(17121322)
650534.33	4191156.46	677.13750	(17120702)	650584.33	4191156.46	789.26062	(17120702)
650634.33	4191156.46	892.43794	(17120702)	650684.33	4191156.46	1137.01568	(17122608)
650734.33	4191156.46	1497.33185	(17011201)	650784.33	4191156.46	2043.67063	(17122805)
650834.33	4191156.46	2865.74968	(17122609)	650884.33	4191156.46	3489.34038	(17121324)
650934.33	4191156.46	4986.15203	(15122702)	650984.33	4191156.46	4920.86223	(17122223)
651034.33	4191156.46	3521.48072	(17022407)	651084.33	4191156.46	2182.86193	(17120617)
651134.33	4191156.46	1539.95542	(14010220)	651184.33	4191156.46	1157.15828	(15010317)
651234.33	4191156.46	903.19712	(15122617)	651284.33	4191156.46	728.09324	(14010519)
651334.33	4191156.46	595.65291	(14010519)	650334.33	4191206.46	383.39575	(17120702)
650384.33	4191206.46	405.86372	(17013104)	650434.33	4191206.46	465.70076	(17122608)
650484.33	4191206.46	544.93568	(17122608)	650534.33	4191206.46	634.06077	(17123105)
650584.33	4191206.46	768.63471	(17011201)	650634.33	4191206.46	923.35386	(17120707)
650684.33	4191206.46	1118.42872	(17121007)	650734.33	4191206.46	1291.44572	(17120905)
650784.33	4191206.46	1356.59327	(17120624)	650834.33	4191206.46	1730.69690	(17123021)
650884.33	4191206.46	2304.00133	(17122724)	650934.33	4191206.46	2894.07936	(17122622)
650984.33	4191206.46	2899.27499	(17120207)	651034.33	4191206.46	2413.59248	(17022706)
651084.33	4191206.46	1912.68989	(17022407)	651134.33	4191206.46	1438.55735	(17121119)
651184.33	4191206.46	1032.13260	(17120617)	651234.33	4191206.46	836.58618	(14022106)
651284.33	4191206.46	685.26583	(14010220)	651334.33	4191206.46	591.40395	(15010317)
650334.33	4191256.46	376.56659	(17123105)	650384.33	4191256.46	415.72802	(17011201)
650434.33	4191256.46	488.46131	(17011201)	650484.33	4191256.46	552.83815	(17120707)
650534.33	4191256.46	638.03133	(17121007)	650584.33	4191256.46	736.73143	(17020404)
650634.33	4191256.46	795.69640	(17120905)	650684.33	4191256.46	857.76557	(17043004)
650734.33	4191256.46	884.42605	(17120208)	650784.33	4191256.46	1088.81725	(17123021)
650834.33	4191256.46	1292.50281	(15022501)	650884.33	4191256.46	1761.62008	(17120219)
650934.33	4191256.46	1929.96468	(17120618)	650984.33	4191256.46	1926.77236	(17120207)
651034.33	4191256.46	1649.51965	(17121904)	651084.33	4191256.46	1501.53816	(17012601)
651134.33	4191256.46	1209.06183	(17022407)	651184.33	4191256.46	995.92712	(17123020)
651234.33	4191256.46	783.32684	(17121119)	651284.33	4191256.46	632.55936	(17120617)
651334.33	4191256.46	546.23973	(13020908)	650334.33	4191306.46	378.58395	(17120707)
650384.33	4191306.46	423.78063	(17122805)	650434.33	4191306.46	475.47882	(17121007)
650484.33	4191306.46	530.04440	(17020404)	650534.33	4191306.46	554.77483	(17120905)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***

INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	598.97142	(17043004)	650634.33	4191306.46	582.40688	(17120624)
650684.33	4191306.46	637.99003	(15022507)	650734.33	4191306.46	767.84488	(17123021)
650784.33	4191306.46	919.89771	(17020506)	650834.33	4191306.46	1099.27353	(17022607)

650884.33	4191306.46	1164.68797 (17120705)	650934.33	4191306.46	1383.30055 (17120618)
650984.33	4191306.46	1271.83715 (17012905)	651034.33	4191306.46	1310.76803 (17022508)
651084.33	4191306.46	1179.20362 (17021405)	651134.33	4191306.46	996.33493 (17012601)
651184.33	4191306.46	844.24896 (17022407)	651234.33	4191306.46	694.09186 (17123020)
651284.33	4191306.46	639.17714 (17121119)	651334.33	4191306.46	507.28881 (14012706)
650334.33	4191356.46	367.09823 (17020404)	650384.33	4191356.46	403.75699 (17020404)
650434.33	4191356.46	416.42568 (17120905)	650484.33	4191356.46	444.02877 (17043004)
650534.33	4191356.46	431.23412 (17043004)	650584.33	4191356.46	448.91441 (17121808)
650634.33	4191356.46	509.81401 (17121324)	650684.33	4191356.46	580.55923 (17123021)
650734.33	4191356.46	688.97747 (17020506)	650784.33	4191356.46	751.85754 (17122724)
650834.33	4191356.46	924.31763 (17120619)	650884.33	4191356.46	930.95406 (17012717)
650934.33	4191356.46	1033.32751 (17120618)	650984.33	4191356.46	951.06709 (17021222)
651034.33	4191356.46	983.71915 (17121401)	651084.33	4191356.46	883.23511 (17121904)
651134.33	4191356.46	821.91786 (17022706)	651184.33	4191356.46	751.99645 (17122321)
651234.33	4191356.46	629.08922 (17022407)	651284.33	4191356.46	559.26255 (17022407)
651334.33	4191356.46	515.76050 (17123020)	650334.33	4191406.46	328.21562 (17120905)
650384.33	4191406.46	344.50662 (17043004)	650434.33	4191406.46	351.35972 (17043004)
650484.33	4191406.46	344.85152 (17120624)	650534.33	4191406.46	366.59722 (17120208)
650584.33	4191406.46	418.92689 (17121324)	650634.33	4191406.46	459.92178 (17123021)
650684.33	4191406.46	536.76914 (17122909)	650734.33	4191406.46	547.91321 (16020808)
650784.33	4191406.46	681.12705 (17022607)	650834.33	4191406.46	737.37602 (17120219)
650884.33	4191406.46	786.41487 (17012717)	650934.33	4191406.46	800.16924 (17120618)
650984.33	4191406.46	782.01977 (17012720)	651034.33	4191406.46	790.89968 (17120207)
651084.33	4191406.46	769.74483 (17022508)	651134.33	4191406.46	711.81393 (17021405)
651184.33	4191406.46	636.66013 (17012601)	651234.33	4191406.46	593.57587 (17122321)
651284.33	4191406.46	501.00638 (17120205)	651334.33	4191406.46	470.05651 (17022407)
650334.33	4191456.46	289.93876 (17043004)	650384.33	4191456.46	271.12511 (17120624)
650434.33	4191456.46	288.02734 (17121808)	650484.33	4191456.46	303.28926 (15022507)
650534.33	4191456.46	349.71197 (17121324)	650584.33	4191456.46	376.71305 (17123021)
650634.33	4191456.46	433.60558 (17122909)	650684.33	4191456.46	439.30410 (15022501)
650734.33	4191456.46	497.50312 (17122724)	650784.33	4191456.46	591.08039 (17120619)
650834.33	4191456.46	568.44273 (17120705)	650884.33	4191456.46	646.89916 (17012717)
650934.33	4191456.46	650.59678 (17121308)	650984.33	4191456.46	664.20679 (17012720)
651034.33	4191456.46	688.67307 (17120207)	651084.33	4191456.46	646.37147 (17022508)
651134.33	4191456.46	572.34847 (17121904)	651184.33	4191456.46	564.22897 (17021405)
651234.33	4191456.46	527.53263 (17012601)	651284.33	4191456.46	482.03184 (17122321)
651334.33	4191456.46	412.14762 (17120205)	650334.33	4191506.46	235.70492 (17120624)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: STCK6 ***
INCLUDING SOURCE(S): STCK6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650384.33	4191506.46	246.12095 (17120208)	650434.33	4191506.46	259.29897 (15022507)
650484.33	4191506.46	296.22074 (17121324)	650534.33	4191506.46	316.37405 (17123021)

650584.33	4191506.46	358.39093	(17122909)	650634.33	4191506.46	371.61881	(17123104)
650684.33	4191506.46	403.29253	(17122724)	650734.33	4191506.46	475.73914	(17022607)
650784.33	4191506.46	518.87269	(17120219)	650834.33	4191506.46	477.63298	(15021408)
650884.33	4191506.46	531.65283	(17122622)	650934.33	4191506.46	553.97253	(17122408)
650984.33	4191506.46	571.42237	(17012720)	651034.33	4191506.46	574.73242	(17120207)
651084.33	4191506.46	528.77762	(17121401)	651134.33	4191506.46	507.05380	(17022508)
651184.33	4191506.46	480.77125	(17021405)	651234.33	4191506.46	447.47531	(17022706)
651284.33	4191506.46	435.27015	(17012601)	651334.33	4191506.46	400.53302	(17122321)
650334.33	4191556.46	214.25399	(17120208)	650384.33	4191556.46	227.34921	(17123024)
650434.33	4191556.46	254.17632	(17121324)	650484.33	4191556.46	270.91525	(17123021)
650534.33	4191556.46	301.87156	(17122909)	650584.33	4191556.46	319.65129	(17020506)
650634.33	4191556.46	325.26364	(16020808)	650684.33	4191556.46	355.32286	(17121506)
650734.33	4191556.46	418.82013	(17120619)	650784.33	4191556.46	414.98923	(17120219)
650834.33	4191556.46	436.82517	(17012717)	650884.33	4191556.46	469.57576	(17020802)
650934.33	4191556.46	481.60905	(17122408)	650984.33	4191556.46	497.45886	(17012720)
651034.33	4191556.46	470.65407	(17012905)	651084.33	4191556.46	465.81703	(17121401)
651134.33	4191556.46	467.35710	(17022508)	651184.33	4191556.46	410.65277	(17121904)
651234.33	4191556.46	419.26219	(17021405)	651284.33	4191556.46	378.32915	(17022706)
651334.33	4191556.46	360.71155	(17012601)	650934.45	4191196.80	3218.18428	(17122622)
650934.45	4191240.55	2179.61201	(17020802)	651071.58	4191520.04	519.69219	(17121401)
650517.18	4191503.06	297.94350	(14121304)	650941.63	4190991.11	3972.40194	(17011609)
650974.28	4190903.61	1890.72948	(17122917)	650989.95	4190868.34	1625.26041	(17122917)
651153.79	4190886.56	1058.21857	(17012908)	651170.44	4190902.10	1046.10580	(17122320)
651162.67	4190888.23	976.26282	(17120121)	651241.49	4191031.43	846.83416	(17121319)
650569.32	4190797.20	534.88531	(13010908)	650392.81	4190782.21	386.60968	(17121504)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	305.95838	(13013108)	650384.33	4190556.46	330.32004	(16010309)
650434.33	4190556.46	339.94492	(15122802)	650484.33	4190556.46	376.29764	(13012423)
650534.33	4190556.46	394.35027	(17121508)	650584.33	4190556.46	408.10411	(15021203)
650634.33	4190556.46	456.90420	(17122918)	650684.33	4190556.46	457.55062	(16012703)
650734.33	4190556.46	476.69765	(17011609)	650784.33	4190556.46	515.13035	(17011609)
650834.33	4190556.46	594.51978	(17123009)	650884.33	4190556.46	489.51921	(17120822)
650934.33	4190556.46	504.09483	(17122917)	650984.33	4190556.46	503.52643	(17012520)
651034.33	4190556.46	491.37106	(17122518)	651084.33	4190556.46	450.48696	(17012903)
651134.33	4190556.46	431.73926	(17020801)	651184.33	4190556.46	389.73703	(17120120)
651234.33	4190556.46	346.81399	(17011508)	651284.33	4190556.46	338.19394	(17012908)
651334.33	4190556.46	287.31352	(17120121)	650334.33	4190606.46	329.11098	(14021223)
650384.33	4190606.46	353.14057	(13013108)	650434.33	4190606.46	383.59770	(16010309)
650484.33	4190606.46	393.55624	(15010507)	650534.33	4190606.46	441.37717	(14021122)
650584.33	4190606.46	460.46466	(13020306)	650634.33	4190606.46	518.80322	(17123007)

650684.33	4190606.46	516.98114	(14021105)	650734.33	4190606.46	544.97018	(14012501)
650784.33	4190606.46	606.98199	(17011609)	650834.33	4190606.46	682.75376	(17123009)
650884.33	4190606.46	580.63665	(17122917)	650934.33	4190606.46	580.72931	(17013024)
650984.33	4190606.46	568.01950	(17122319)	651034.33	4190606.46	547.16018	(17122920)
651084.33	4190606.46	510.32303	(17020801)	651134.33	4190606.46	447.88062	(17120120)
651184.33	4190606.46	408.39867	(17011508)	651234.33	4190606.46	391.98347	(17012908)
651284.33	4190606.46	331.76771	(17120121)	651334.33	4190606.46	296.63996	(17122320)
650334.33	4190656.46	352.92326	(14120608)	650384.33	4190656.46	381.55238	(14021223)
650434.33	4190656.46	414.24830	(13013108)	650484.33	4190656.46	451.73161	(16010309)
650534.33	4190656.46	486.31137	(15010507)	650584.33	4190656.46	530.91611	(13123108)
650634.33	4190656.46	552.08688	(15021203)	650684.33	4190656.46	607.24217	(17122918)
650734.33	4190656.46	638.32483	(15012509)	650784.33	4190656.46	720.14526	(17011609)
650834.33	4190656.46	795.92155	(17123009)	650884.33	4190656.46	706.06804	(17122917)
650934.33	4190656.46	689.36717	(17013024)	650984.33	4190656.46	659.65614	(17012804)
651034.33	4190656.46	606.34589	(17012903)	651084.33	4190656.46	551.27453	(17020801)
651134.33	4190656.46	486.62883	(17120120)	651184.33	4190656.46	460.26979	(17012908)
651234.33	4190656.46	389.39741	(17120121)	651284.33	4190656.46	357.30556	(17122320)
651334.33	4190656.46	362.13490	(17122320)	650334.33	4190706.46	371.61103	(13012105)
650384.33	4190706.46	409.40307	(13010908)	650434.33	4190706.46	451.44533	(13021704)
650484.33	4190706.46	495.89560	(13013108)	650534.33	4190706.46	540.65796	(16010309)
650584.33	4190706.46	599.01089	(13012423)	650634.33	4190706.46	644.81501	(13020306)
650684.33	4190706.46	723.89402	(17123007)	650734.33	4190706.46	733.54416	(14120620)
650784.33	4190706.46	858.94741	(17011609)	650834.33	4190706.46	945.19160	(17123009)
650884.33	4190706.46	862.48693	(17122917)	650934.33	4190706.46	813.20921	(17012520)
650984.33	4190706.46	775.33925	(17122920)	651034.33	4190706.46	711.77859	(17020801)
651084.33	4190706.46	619.39718	(17120120)	651134.33	4190706.46	548.40762	(17012908)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	466.48887	(17120121)	651234.33	4190706.46	437.48950	(17122320)
651284.33	4190706.46	416.80074	(17122320)	651334.33	4190706.46	381.61880	(17121219)
650334.33	4190756.46	422.23686	(17120517)	650384.33	4190756.46	438.24319	(17123107)
650434.33	4190756.46	492.91262	(13010908)	650484.33	4190756.46	546.50223	(13010906)
650534.33	4190756.46	609.39525	(13013108)	650584.33	4190756.46	674.00726	(15122802)
650634.33	4190756.46	756.17071	(14021122)	650684.33	4190756.46	809.93052	(15021203)
650734.33	4190756.46	883.34481	(14021105)	650784.33	4190756.46	1024.58696	(17011609)
650834.33	4190756.46	1149.01437	(17123009)	650884.33	4190756.46	1051.20345	(17122917)
650934.33	4190756.46	963.08247	(17122319)	650984.33	4190756.46	883.49808	(17012903)
651034.33	4190756.46	769.34952	(17120120)	651084.33	4190756.46	663.65926	(17012908)
651134.33	4190756.46	573.81058	(17120121)	651184.33	4190756.46	545.93942	(17122320)
651234.33	4190756.46	500.86209	(17121219)	651284.33	4190756.46	470.26215	(17011509)
651334.33	4190756.46	462.14201	(17011509)	650334.33	4190806.46	446.67797	(17013106)

650384.33	4190806.46	499.32881	(17120517)	650434.33	4190806.46	538.61194	(17120517)
650484.33	4190806.46	600.34120	(13012105)	650534.33	4190806.46	683.38953	(13010906)
650584.33	4190806.46	775.58691	(13013108)	650634.33	4190806.46	861.38624	(15122802)
650684.33	4190806.46	988.34177	(13123108)	650734.33	4190806.46	1131.83212	(17122918)
650784.33	4190806.46	1206.43664	(17011609)	650834.33	4190806.46	1439.66241	(17123009)
650884.33	4190806.46	1257.26432	(17122917)	650934.33	4190806.46	1206.74692	(17122620)
650984.33	4190806.46	1070.38077	(17020801)	651034.33	4190806.46	872.34381	(17011508)
651084.33	4190806.46	731.23615	(17120121)	651134.33	4190806.46	696.03792	(17122320)
651184.33	4190806.46	616.01447	(17121219)	651234.33	4190806.46	605.66136	(17011509)
651284.33	4190806.46	522.94773	(17011509)	651334.33	4190806.46	388.71553	(17011509)
650334.33	4190856.46	471.28540	(17021308)	650384.33	4190856.46	535.54733	(17021420)
650434.33	4190856.46	601.17944	(17013106)	650484.33	4190856.46	697.54021	(17120517)
650534.33	4190856.46	751.10041	(17123107)	650584.33	4190856.46	886.16104	(14120608)
650634.33	4190856.46	1036.78486	(13013108)	650684.33	4190856.46	1205.79535	(15010507)
650734.33	4190856.46	1369.14531	(15022608)	650784.33	4190856.46	1573.04789	(15012509)
650834.33	4190856.46	1877.29086	(17123009)	650884.33	4190856.46	1654.60181	(17013024)
650934.33	4190856.46	1473.48905	(17012903)	650984.33	4190856.46	1215.22284	(17120120)
651034.33	4190856.46	979.95946	(17012908)	651084.33	4190856.46	907.06398	(17122320)
651134.33	4190856.46	814.66638	(17011509)	651184.33	4190856.46	740.85794	(17011509)
651234.33	4190856.46	537.45943	(17011509)	651284.33	4190856.46	420.73142	(17122619)
651334.33	4190856.46	357.18196	(17121906)	650334.33	4190906.46	494.97740	(17123023)
650384.33	4190906.46	564.21371	(17021308)	650434.33	4190906.46	663.12170	(17021308)
650484.33	4190906.46	749.95725	(17120203)	650534.33	4190906.46	875.93776	(17013106)
650584.33	4190906.46	1050.75024	(17120517)	650634.33	4190906.46	1218.28594	(13010908)
650684.33	4190906.46	1490.93062	(13013108)	650734.33	4190906.46	1812.08729	(14021122)
650784.33	4190906.46	2092.66706	(14021105)	650834.33	4190906.46	2579.61192	(17123009)
650884.33	4190906.46	2215.83614	(17122319)	650934.33	4190906.46	1841.83379	(17120120)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	1421.21390	(17012908)	651034.33	4190906.46	1236.73612	(17121219)
651084.33	4190906.46	1139.22305	(17011509)	651134.33	4190906.46	805.92270	(17011509)
651184.33	4190906.46	591.45857	(17122619)	651234.33	4190906.46	496.55140	(17020824)
651284.33	4190906.46	420.56062	(17020824)	651334.33	4190906.46	367.96231	(17011303)
650334.33	4190956.46	507.48014	(17013105)	650384.33	4190956.46	581.71568	(17013105)
650434.33	4190956.46	670.11598	(17012823)	650484.33	4190956.46	787.08084	(17123023)
650534.33	4190956.46	962.35854	(17021308)	650584.33	4190956.46	1174.66320	(17021308)
650634.33	4190956.46	1460.50777	(17013106)	650684.33	4190956.46	1802.63442	(17123107)
650734.33	4190956.46	2407.06871	(13013108)	650784.33	4190956.46	3085.26814	(15022608)
650834.33	4190956.46	3743.66354	(17123009)	650884.33	4190956.46	3183.00424	(17012903)
650934.33	4190956.46	2309.64775	(17012908)	650984.33	4190956.46	1947.59351	(17011509)
651034.33	4190956.46	1384.08408	(17011509)	651084.33	4190956.46	908.82522	(17122619)

651134.33	4190956.46	729.63970	(17020824)	651184.33	4190956.46	603.00880	(17011303)
651234.33	4190956.46	511.37220	(17121319)	651284.33	4190956.46	443.68212	(17121319)
651334.33	4190956.46	381.30948	(17010504)	650334.33	4191006.46	516.44682	(17121807)
650384.33	4191006.46	592.78027	(17121807)	650434.33	4191006.46	682.96252	(17122902)
650484.33	4191006.46	822.40216	(17022506)	650534.33	4191006.46	1003.93347	(17022506)
650584.33	4191006.46	1248.61886	(17013105)	650634.33	4191006.46	1612.25731	(17012823)
650684.33	4191006.46	2239.82604	(17021308)	650734.33	4191006.46	3142.77306	(17013106)
650784.33	4191006.46	4878.08412	(17123109)	650834.33	4191006.46	5445.97347	(13030304)
650884.33	4191006.46	4366.88875	(14120821)	650934.33	4191006.46	3044.31234	(17011509)
650984.33	4191006.46	1799.54709	(17020824)	651034.33	4191006.46	1285.38405	(17121319)
651084.33	4191006.46	967.41443	(17010504)	651134.33	4191006.46	788.99218	(17122519)
651184.33	4191006.46	657.00803	(17122519)	651234.33	4191006.46	547.16652	(17122519)
651284.33	4191006.46	459.10593	(17122719)	651334.33	4191006.46	398.76597	(17122719)
650334.33	4191056.46	535.66390	(17011505)	650384.33	4191056.46	615.68078	(17011505)
650434.33	4191056.46	718.52044	(17011505)	650484.33	4191056.46	854.53876	(17011505)
650534.33	4191056.46	1040.97409	(17011505)	650584.33	4191056.46	1308.32692	(17011505)
650634.33	4191056.46	1714.56396	(17011505)	650684.33	4191056.46	2377.77534	(17011505)
650734.33	4191056.46	3525.82248	(17011505)	650784.33	4191056.46	5634.75908	(15020209)
650834.33	4191056.46	0.00000	(00000000)	650884.33	4191056.46	5847.71862	(14120709)
650934.33	4191056.46	3148.40419	(14022208)	650984.33	4191056.46	1979.59821	(14022208)
651034.33	4191056.46	1378.44992	(14022208)	651084.33	4191056.46	1028.77641	(14022208)
651134.33	4191056.46	805.45218	(14022208)	651184.33	4191056.46	652.81515	(14022208)
651234.33	4191056.46	543.07993	(14022208)	651284.33	4191056.46	461.51307	(16010203)
651334.33	4191056.46	399.92304	(16010203)	650334.33	4191106.46	525.45909	(17122903)
650384.33	4191106.46	604.43310	(17121322)	650434.33	4191106.46	707.47402	(17121322)
650484.33	4191106.46	828.78066	(17121322)	650534.33	4191106.46	995.41413	(17120702)
650584.33	4191106.46	1181.53797	(17120702)	650634.33	4191106.46	1570.18459	(17122608)
650684.33	4191106.46	2225.49974	(17011201)	650734.33	4191106.46	3325.37606	(17122609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	4273.54041	(17123021)	650834.33	4191106.46	5686.01793	(17030308)
650884.33	4191106.46	4458.09237	(17022408)	650934.33	4191106.46	2757.04869	(17120617)
650984.33	4191106.46	1850.16992	(15010317)	651034.33	4191106.46	1334.47582	(15122617)
651084.33	4191106.46	1002.17347	(14010519)	651134.33	4191106.46	780.88648	(14010519)
651184.33	4191106.46	649.50718	(15122424)	651234.33	4191106.46	546.58340	(14021603)
651284.33	4191106.46	465.55407	(14021603)	651334.33	4191106.46	401.83885	(15020206)
650334.33	4191156.46	469.88622	(17120702)	650384.33	4191156.46	546.82768	(17122608)
650434.33	4191156.46	647.73624	(17122608)	650484.33	4191156.46	769.00669	(17011201)
650534.33	4191156.46	959.30873	(17011201)	650584.33	4191156.46	1191.70632	(17121007)
650634.33	4191156.46	1424.44132	(17020404)	650684.33	4191156.46	1523.06601	(17120624)
650734.33	4191156.46	2016.16586	(17123021)	650784.33	4191156.46	2840.62868	(17022607)

650834.33	4191156.46	3300.79951 (17122408)	650884.33	4191156.46	2819.20502 (17121904)
650934.33	4191156.46	2213.55518 (17022408)	650984.33	4191156.46	1666.82372 (17121119)
651034.33	4191156.46	1177.35619 (17120617)	651084.33	4191156.46	931.02343 (14011317)
651134.33	4191156.46	754.46703 (15010317)	651184.33	4191156.46	629.80378 (15010317)
651234.33	4191156.46	535.13112 (15122617)	651284.33	4191156.46	451.94322 (13032807)
651334.33	4191156.46	396.81593 (14010519)	650334.33	4191206.46	488.42188 (17011201)
650384.33	4191206.46	564.90674 (17011201)	650434.33	4191206.46	650.76819 (17122805)
650484.33	4191206.46	757.98226 (17020404)	650534.33	4191206.46	845.09411 (17020404)
650584.33	4191206.46	929.06776 (17043004)	650634.33	4191206.46	958.93345 (17120208)
650684.33	4191206.46	1205.52493 (17123021)	650734.33	4191206.46	1475.89171 (17122724)
650784.33	4191206.46	1752.40684 (17120705)	650834.33	4191206.46	2122.71692 (17122408)
650884.33	4191206.46	1897.39971 (17022508)	650934.33	4191206.46	1630.66013 (17022706)
650984.33	4191206.46	1338.17814 (17022408)	651034.33	4191206.46	1081.37432 (17123020)
651084.33	4191206.46	879.14844 (17121119)	651134.33	4191206.46	688.42659 (17120617)
651184.33	4191206.46	587.54737 (13020908)	651234.33	4191206.46	505.20563 (14011317)
651284.33	4191206.46	436.05338 (15010317)	651334.33	4191206.46	390.84192 (15010317)
650334.33	4191256.46	484.68753 (17121007)	650384.33	4191256.46	544.07062 (17020404)
650434.33	4191256.46	574.16248 (17020404)	650484.33	4191256.46	626.29185 (17043004)
650534.33	4191256.46	612.94151 (17120624)	650584.33	4191256.46	680.34367 (17123024)
650634.33	4191256.46	825.11819 (17123021)	650684.33	4191256.46	955.47585 (16022108)
650734.33	4191256.46	1230.23198 (17022607)	650784.33	4191256.46	1314.61908 (17012717)
650834.33	4191256.46	1498.31536 (17122408)	650884.33	4191256.46	1379.31187 (17120207)
650934.33	4191256.46	1227.98252 (17121904)	650984.33	4191256.46	1120.04730 (17012601)
651034.33	4191256.46	919.49413 (17022408)	651084.33	4191256.46	779.45964 (17022407)
651134.33	4191256.46	683.62146 (17121119)	651184.33	4191256.46	542.46174 (14012706)
651234.33	4191256.46	466.45678 (17120617)	651284.33	4191256.46	411.98060 (13020908)
651334.33	4191256.46	367.81109 (14011317)	650334.33	4191306.46	422.57341 (17020404)
650384.33	4191306.46	454.80010 (17043004)	650434.33	4191306.46	456.46865 (17043004)
650484.33	4191306.46	467.13192 (17121808)	650534.33	4191306.46	536.42124 (17121324)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***
INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650584.33	4191306.46	611.94709 (17123021)	650634.33	4191306.46	717.46198 (17020506)
650684.33	4191306.46	794.90536 (17122724)	650734.33	4191306.46	973.63344 (17120219)
650784.33	4191306.46	1022.33000 (17012717)	650834.33	4191306.46	1129.75971 (17122408)
650884.33	4191306.46	1081.32583 (17120207)	650934.33	4191306.46	1009.75220 (17022508)
650984.33	4191306.46	920.24906 (17021405)	651034.33	4191306.46	817.00997 (17012601)
651084.33	4191306.46	683.02328 (17022408)	651134.33	4191306.46	620.88781 (17022407)
651184.33	4191306.46	543.41980 (17123020)	651234.33	4191306.46	474.73854 (17121119)
651284.33	4191306.46	388.79813 (17120617)	651334.33	4191306.46	343.74656 (17120617)
650334.33	4191356.46	364.09650 (17043004)	650384.33	4191356.46	353.85616 (17120624)
650434.33	4191356.46	377.66560 (17120208)	650484.33	4191356.46	433.83230 (17121324)

650534.33	4191356.46	478.33573	(17123021)	650584.33	4191356.46	557.40340	(17020506)
650634.33	4191356.46	590.06392	(17122724)	650684.33	4191356.46	723.62386	(17022607)
650734.33	4191356.46	709.50767	(17120705)	650784.33	4191356.46	788.46237	(17020802)
650834.33	4191356.46	892.14057	(17122408)	650884.33	4191356.46	812.90368	(17120207)
650934.33	4191356.46	789.14228	(17022508)	650984.33	4191356.46	720.82243	(17121904)
651034.33	4191356.46	664.64162	(17022706)	651084.33	4191356.46	610.76191	(17012601)
651134.33	4191356.46	534.20871	(17022408)	651184.33	4191356.46	503.86983	(17022407)
651234.33	4191356.46	426.50180	(17123020)	651284.33	4191356.46	396.76304	(17121119)
651334.33	4191356.46	343.32866	(17121119)	650334.33	4191406.46	293.64452	(17121808)
650384.33	4191406.46	310.04588	(15022507)	650434.33	4191406.46	357.95677	(17121324)
650484.33	4191406.46	387.96488	(17123021)	650534.33	4191406.46	448.78568	(17122909)
650584.33	4191406.46	452.65981	(16120505)	650634.33	4191406.46	525.75276	(17022607)
650684.33	4191406.46	622.46358	(17120219)	650734.33	4191406.46	580.97762	(17012717)
650784.33	4191406.46	672.72965	(17020802)	650834.33	4191406.46	728.58189	(17122408)
650884.33	4191406.46	635.03010	(17012905)	650934.33	4191406.46	654.47777	(17121401)
650984.33	4191406.46	622.95141	(17022508)	651034.33	4191406.46	591.37549	(17021405)
651084.33	4191406.46	531.10976	(17022706)	651134.33	4191406.46	493.20849	(17122321)
651184.33	4191406.46	433.32141	(17022408)	651234.33	4191406.46	416.63299	(17022407)
651284.33	4191406.46	338.42270	(17120122)	651334.33	4191406.46	340.19170	(17123020)
650334.33	4191456.46	263.23307	(15022507)	650384.33	4191456.46	300.57763	(17121324)
650434.33	4191456.46	323.38767	(17123021)	650484.33	4191456.46	370.56533	(17122909)
650534.33	4191456.46	371.06218	(15022501)	650584.33	4191456.46	419.38403	(17122724)
650634.33	4191456.46	492.31705	(17022607)	650684.33	4191456.46	503.85514	(17120219)
650734.33	4191456.46	529.88715	(17012717)	650784.33	4191456.46	571.42839	(17020802)
650834.33	4191456.46	610.31628	(17122408)	650884.33	4191456.46	508.00919	(13121321)
650934.33	4191456.46	551.02050	(17120207)	650984.33	4191456.46	552.92278	(17022508)
651034.33	4191456.46	489.03976	(17121904)	651084.33	4191456.46	481.32302	(17021405)
651134.33	4191456.46	446.56474	(17012601)	651184.33	4191456.46	412.94336	(17122321)
651234.33	4191456.46	361.12762	(17022408)	651284.33	4191456.46	350.31887	(17022407)
651334.33	4191456.46	300.68999	(17022407)	650334.33	4191506.46	256.21788	(17121324)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL1 ***

INCLUDING SOURCE(S): VOL1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	275.28803	(17123021)	650434.33	4191506.46	311.65097	(17122909)
650484.33	4191506.46	320.49978	(17123104)	650534.33	4191506.46	338.89077	(17122724)
650584.33	4191506.46	388.46242	(17022607)	650634.33	4191506.46	436.77349	(17120619)
650684.33	4191506.46	409.77626	(17120705)	650734.33	4191506.46	469.28002	(17012717)
650784.33	4191506.46	493.47392	(17120618)	650834.33	4191506.46	521.47883	(17122408)
650884.33	4191506.46	442.20140	(17021222)	650934.33	4191506.46	495.24780	(17120207)
650984.33	4191506.46	456.08694	(17022508)	651034.33	4191506.46	425.28140	(17022508)
651084.33	4191506.46	415.10666	(17021405)	651134.33	4191506.46	384.39701	(17022706)
651184.33	4191506.46	379.56089	(17012601)	651234.33	4191506.46	351.11077	(17122321)

651284.33	4191506.46	307.30751	(17022408)	651334.33	4191506.46	298.86802	(17022407)
650334.33	4191556.46	238.28206	(17123021)	650384.33	4191556.46	266.23805	(17122909)
650434.33	4191556.46	279.12883	(17020506)	650484.33	4191556.46	279.28259	(16020808)
650534.33	4191556.46	310.92905	(17122724)	650584.33	4191556.46	364.01349	(17022607)
650634.33	4191556.46	384.51752	(17120219)	650684.33	4191556.46	353.44945	(15021408)
650734.33	4191556.46	409.01907	(17012717)	650784.33	4191556.46	428.92711	(17120618)
650834.33	4191556.46	452.69693	(17122408)	650884.33	4191556.46	390.69554	(17021222)
650934.33	4191556.46	431.25330	(17120207)	650984.33	4191556.46	401.43763	(17121401)
651034.33	4191556.46	403.84829	(17022508)	651084.33	4191556.46	360.57823	(17121904)
651134.33	4191556.46	365.37171	(17021405)	651184.33	4191556.46	332.00415	(17022706)
651234.33	4191556.46	322.49094	(17012601)	651284.33	4191556.46	302.59602	(17122321)
651334.33	4191556.46	265.87787	(17022408)	650934.45	4191196.80	1736.12874	(17022706)
650934.45	4191240.55	1353.69724	(17121904)	651071.58	4191520.04	404.16924	(17121904)
650517.18	4191503.06	325.01336	(16120505)	650941.63	4190991.11	2980.40705	(17011509)
650974.28	4190903.61	1561.69442	(17012908)	650989.95	4190868.34	1219.40624	(17012908)
651153.79	4190886.56	798.38769	(17011509)	651170.44	4190902.10	616.15022	(17122619)
651162.67	4190888.23	736.58290	(17011509)	651241.49	4191031.43	518.55881	(17122621)
650569.32	4190797.20	734.62734	(13013108)	650392.81	4190782.21	476.09846	(17120517)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	320.13277	(15021803)	650384.33	4190556.46	338.85486	(15122802)
650434.33	4190556.46	364.68971	(15010507)	650484.33	4190556.46	388.10201	(13123108)
650534.33	4190556.46	407.40724	(15022608)	650584.33	4190556.46	451.35064	(17123007)
650634.33	4190556.46	449.04306	(14021105)	650684.33	4190556.46	472.99022	(15012509)
650734.33	4190556.46	539.48524	(17011609)	650784.33	4190556.46	554.17852	(17123009)
650834.33	4190556.46	515.73153	(17011719)	650884.33	4190556.46	543.27047	(17122917)
650934.33	4190556.46	509.74764	(17013024)	650984.33	4190556.46	496.21255	(17012804)
651034.33	4190556.46	459.38279	(17122920)	651084.33	4190556.46	444.17446	(17020801)
651134.33	4190556.46	385.68680	(17120120)	651184.33	4190556.46	355.16185	(17011508)
651234.33	4190556.46	338.89681	(17012908)	651284.33	4190556.46	308.91330	(17012908)
651334.33	4190556.46	261.93096	(17013019)	650334.33	4190606.46	346.95182	(13013108)
650384.33	4190606.46	371.06320	(15021803)	650434.33	4190606.46	393.71751	(15122802)
650484.33	4190606.46	429.59043	(13012423)	650534.33	4190606.46	454.33635	(17121508)
650584.33	4190606.46	481.53381	(17123007)	650634.33	4190606.46	520.35931	(17122918)
650684.33	4190606.46	536.65248	(15012509)	650734.33	4190606.46	614.03096	(17011609)
650784.33	4190606.46	629.29791	(17123009)	650834.33	4190606.46	583.50163	(17011719)
650884.33	4190606.46	613.66430	(17122917)	650934.33	4190606.46	584.84859	(17012520)
650984.33	4190606.46	565.05001	(17122620)	651034.33	4190606.46	510.64419	(17012903)
651084.33	4190606.46	473.59832	(17020801)	651134.33	4190606.46	430.16236	(17120120)
651184.33	4190606.46	386.68590	(17012908)	651234.33	4190606.46	360.65064	(17012908)
651284.33	4190606.46	301.49802	(17013019)	651334.33	4190606.46	315.83325	(17122320)

650334.33	4190656.46	370.36340	(13010906)	650384.33	4190656.46	404.69711	(13013108)
650434.33	4190656.46	437.07802	(16010309)	650484.33	4190656.46	460.40846	(15122802)
650534.33	4190656.46	514.71125	(14021122)	650584.33	4190656.46	543.52401	(15022608)
650634.33	4190656.46	605.79372	(17123007)	650684.33	4190656.46	616.13024	(16012703)
650734.33	4190656.46	695.06589	(17011609)	650784.33	4190656.46	722.85998	(17123009)
650834.33	4190656.46	672.14780	(15011509)	650884.33	4190656.46	681.53673	(17122917)
650934.33	4190656.46	659.56509	(17122319)	650984.33	4190656.46	633.52370	(17122920)
651034.33	4190656.46	596.64796	(17020801)	651084.33	4190656.46	525.32973	(17120120)
651134.33	4190656.46	448.30367	(17011508)	651184.33	4190656.46	428.23785	(17012908)
651234.33	4190656.46	351.90715	(17013019)	651284.33	4190656.46	371.42166	(17122320)
651334.33	4190656.46	340.03775	(17121219)	650334.33	4190706.46	397.91569	(13010908)
650384.33	4190706.46	436.71195	(13010906)	650434.33	4190706.46	480.81119	(13013108)
650484.33	4190706.46	529.70158	(16010309)	650534.33	4190706.46	561.32004	(15010507)
650584.33	4190706.46	632.39629	(13123108)	650634.33	4190706.46	681.64722	(17123007)
650684.33	4190706.46	721.20056	(14021105)	650734.33	4190706.46	776.39941	(17011609)
650784.33	4190706.46	841.42141	(17123009)	650834.33	4190706.46	795.58766	(15011509)
650884.33	4190706.46	815.42127	(17013024)	650934.33	4190706.46	788.03614	(17012804)
650984.33	4190706.46	709.32441	(17012903)	651034.33	4190706.46	622.83544	(17120120)
651084.33	4190706.46	560.07631	(17011508)	651134.33	4190706.46	519.32873	(17012908)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	417.70042	(17013019)	651234.33	4190706.46	440.08122	(17122320)
651284.33	4190706.46	401.46458	(17121219)	651334.33	4190706.46	382.46684	(17011509)
650334.33	4190756.46	421.77450	(15010907)	650384.33	4190756.46	470.74954	(13012105)
650434.33	4190756.46	525.78810	(14120608)	650484.33	4190756.46	585.09494	(15010508)
650534.33	4190756.46	658.82939	(16010309)	650584.33	4190756.46	725.69323	(15010507)
650634.33	4190756.46	790.65723	(13020306)	650684.33	4190756.46	896.04994	(17122918)
650734.33	4190756.46	932.64021	(15012509)	650784.33	4190756.46	994.25369	(17123009)
650834.33	4190756.46	965.82527	(17122917)	650884.33	4190756.46	987.56510	(17013024)
650934.33	4190756.46	942.50070	(17122920)	650984.33	4190756.46	847.60413	(17020801)
651034.33	4190756.46	703.25887	(17011508)	651084.33	4190756.46	646.98918	(17012908)
651134.33	4190756.46	518.21825	(17122320)	651184.33	4190756.46	524.27269	(17122320)
651234.33	4190756.46	467.25139	(17121219)	651284.33	4190756.46	475.10241	(17011509)
651334.33	4190756.46	424.39655	(17011509)	650334.33	4190806.46	482.09977	(17121504)
650384.33	4190806.46	537.34270	(17120517)	650434.33	4190806.46	566.75761	(17123107)
650484.33	4190806.46	643.18187	(13010908)	650534.33	4190806.46	737.63323	(15010508)
650584.33	4190806.46	847.20142	(16010309)	650634.33	4190806.46	951.42164	(14021122)
650684.33	4190806.46	1072.43315	(17123007)	650734.33	4190806.46	1147.13584	(15012509)
650784.33	4190806.46	1230.24215	(17122820)	650834.33	4190806.46	1284.24257	(17122917)
650884.33	4190806.46	1202.63095	(17122319)	650934.33	4190806.46	1087.97350	(17012903)
650984.33	4190806.46	955.29586	(17120120)	651034.33	4190806.46	835.06098	(17012908)

651084.33	4190806.46	680.50122	(17122320)	651134.33	4190806.46	639.82901	(17121219)
651184.33	4190806.46	606.94443	(17011509)	651234.33	4190806.46	566.51704	(17011509)
651284.33	4190806.46	444.08939	(17011509)	651334.33	4190806.46	326.08361	(17122619)
650334.33	4190856.46	509.34024	(17120203)	650384.33	4190856.46	570.84537	(17013106)
650434.33	4190856.46	657.55665	(17121504)	650484.33	4190856.46	726.65440	(17120517)
650534.33	4190856.46	831.75676	(13010908)	650584.33	4190856.46	971.30925	(14021223)
650634.33	4190856.46	1137.21763	(16010309)	650684.33	4190856.46	1313.39253	(13123108)
650734.33	4190856.46	1473.19840	(14021105)	650784.33	4190856.46	1675.13779	(17011609)
650834.33	4190856.46	1734.90324	(17122917)	650884.33	4190856.46	1586.75247	(17122620)
650934.33	4190856.46	1285.17496	(17120120)	650984.33	4190856.46	1130.63236	(17012908)
651034.33	4190856.46	931.15478	(17122320)	651084.33	4190856.46	825.60502	(17121219)
651134.33	4190856.46	795.71384	(17011509)	651184.33	4190856.46	623.86992	(17011509)
651234.33	4190856.46	438.61307	(17122619)	651284.33	4190856.46	382.63254	(17122619)
651334.33	4190856.46	337.82533	(17020824)	650334.33	4190906.46	530.82211	(17123023)
650384.33	4190906.46	627.82351	(17021308)	650434.33	4190906.46	698.53690	(17120203)
650484.33	4190906.46	818.68288	(17123002)	650534.33	4190906.46	976.37527	(17120517)
650584.33	4190906.46	1112.23958	(17123107)	650634.33	4190906.46	1367.40002	(14021223)
650684.33	4190906.46	1648.63554	(15122802)	650734.33	4190906.46	2045.39449	(17123007)
650784.33	4190906.46	2371.02836	(17011609)	650834.33	4190906.46	2307.84204	(17122917)
650884.33	4190906.46	2010.71502	(17020801)	650934.33	4190906.46	1634.23547	(17012908)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	1342.35718	(17122320)	651034.33	4190906.46	1187.15676	(17011509)
651084.33	4190906.46	956.97477	(17011509)	651134.33	4190906.46	634.40968	(17122619)
651184.33	4190906.46	518.57780	(17121906)	651234.33	4190906.46	453.94942	(17020824)
651284.33	4190906.46	380.96121	(17011303)	651334.33	4190906.46	343.90309	(17011303)
650334.33	4190956.46	552.43399	(17013105)	650384.33	4190956.46	627.95206	(17012823)
650434.33	4190956.46	739.89703	(17121207)	650484.33	4190956.46	885.00735	(17123023)
650534.33	4190956.46	1106.26651	(17021308)	650584.33	4190956.46	1339.96843	(17021420)
650634.33	4190956.46	1712.58312	(17120517)	650684.33	4190956.46	2150.52385	(13010906)
650734.33	4190956.46	2818.17816	(13012423)	650784.33	4190956.46	3421.46708	(17012817)
650834.33	4190956.46	3401.70434	(17122701)	650884.33	4190956.46	2631.23977	(17011508)
650934.33	4190956.46	2042.27540	(17122320)	650984.33	4190956.46	1700.66645	(17011509)
651034.33	4190956.46	1032.61466	(17122619)	651084.33	4190956.46	808.74415	(17020824)
651134.33	4190956.46	643.90809	(17011303)	651184.33	4190956.46	535.11247	(17011303)
651234.33	4190956.46	471.56215	(17121319)	651284.33	4190956.46	401.88892	(17121319)
651334.33	4190956.46	353.22397	(17010504)	650334.33	4191006.46	560.72565	(17121807)
650384.33	4191006.46	644.83258	(17121807)	650434.33	4191006.46	758.47004	(17022506)
650484.33	4191006.46	927.88665	(17022506)	650534.33	4191006.46	1123.31560	(17022506)
650584.33	4191006.46	1450.87577	(17013105)	650634.33	4191006.46	1940.19410	(17123023)
650684.33	4191006.46	2733.84948	(17120203)	650734.33	4191006.46	3911.70955	(15011205)

650784.33	4191006.46	5712.86965 (15030508)	650834.33	4191006.46	5034.86521 (13020221)
650884.33	4191006.46	3808.89732 (17011509)	650934.33	4191006.46	2118.76927 (17020824)
650984.33	4191006.46	1448.84260 (17011303)	651034.33	4191006.46	1086.16985 (17121319)
651084.33	4191006.46	846.73139 (17122519)	651134.33	4191006.46	707.26987 (17122519)
651184.33	4191006.46	588.42855 (17122519)	651234.33	4191006.46	491.51581 (17122519)
651284.33	4191006.46	421.61728 (17122719)	651334.33	4191006.46	367.42522 (17122719)
650334.33	4191056.46	581.36559 (17011505)	650384.33	4191056.46	674.09449 (17011505)
650434.33	4191056.46	795.25307 (17011505)	650484.33	4191056.46	958.80697 (17011505)
650534.33	4191056.46	1188.83802 (17011505)	650584.33	4191056.46	1529.77766 (17011505)
650634.33	4191056.46	2069.89811 (17011505)	650684.33	4191056.46	2990.41430 (17011505)
650734.33	4191056.46	4529.14816 (17031802)	650784.33	4191056.46	10603.84026 (15112209)
650834.33	4191056.46	8595.66157 (16122009)	650884.33	4191056.46	3916.92298 (14022208)
650934.33	4191056.46	2349.50506 (14022208)	650984.33	4191056.46	1577.47019 (14022208)
651034.33	4191056.46	1148.77119 (14022208)	651084.33	4191056.46	884.06548 (14022208)
651134.33	4191056.46	707.55020 (14022208)	651184.33	4191056.46	582.98352 (14022208)
651234.33	4191056.46	491.20878 (14022208)	651284.33	4191056.46	422.77254 (16010203)
651334.33	4191056.46	369.38127 (16010203)	650334.33	4191106.46	568.17079 (17121322)
650384.33	4191106.46	664.06306 (17121322)	650434.33	4191106.46	778.14722 (17121322)
650484.33	4191106.46	920.51721 (17120702)	650534.33	4191106.46	1109.64474 (17120702)
650584.33	4191106.46	1392.46688 (17122608)	650634.33	4191106.46	1924.71767 (17011201)
650684.33	4191106.46	2756.36580 (17121007)	650734.33	4191106.46	3547.69277 (17121808)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650784.33	4191106.46	5316.09523 (15022408)	650834.33	4191106.46	5018.63583 (17021405)
650884.33	4191106.46	3426.75340 (17121119)	650934.33	4191106.46	2140.01744 (14011317)
650984.33	4191106.46	1500.40550 (15010317)	651034.33	4191106.46	1105.72516 (13032807)
651084.33	4191106.46	863.73163 (14010519)	651134.33	4191106.46	699.35061 (15122424)
651184.33	4191106.46	583.76463 (14021603)	651234.33	4191106.46	496.02709 (14021603)
651284.33	4191106.46	424.22647 (14021603)	651334.33	4191106.46	376.44939 (14022208)
650334.33	4191156.46	507.77961 (17122608)	650384.33	4191156.46	607.33939 (17122608)
650434.33	4191156.46	716.47475 (17123105)	650484.33	4191156.46	887.93561 (17011201)
650534.33	4191156.46	1083.92689 (17120707)	650584.33	4191156.46	1358.14191 (17020404)
650634.33	4191156.46	1605.52768 (17122609)	650684.33	4191156.46	1791.10290 (17121324)
650734.33	4191156.46	2350.29651 (16020808)	650784.33	4191156.46	3081.37154 (17122622)
650834.33	4191156.46	3055.65858 (17121401)	650884.33	4191156.46	2543.26030 (17012601)
650934.33	4191156.46	1804.44307 (17123020)	650984.33	4191156.46	1317.65269 (17120617)
651034.33	4191156.46	1020.54060 (13020908)	651084.33	4191156.46	815.58209 (14010220)
651134.33	4191156.46	683.61089 (15010317)	651184.33	4191156.46	567.94911 (15122617)
651234.33	4191156.46	484.03427 (15122617)	651284.33	4191156.46	416.41752 (14010519)
651334.33	4191156.46	367.66988 (14010519)	650334.33	4191206.46	536.81766 (17011201)
650384.33	4191206.46	615.61591 (17120707)	650434.33	4191206.46	719.66370 (17121007)

650484.33	4191206.46	830.44002	(17020404)	650534.33	4191206.46	909.37133	(17122609)
650584.33	4191206.46	910.58220	(17120624)	650634.33	4191206.46	1120.18340	(17121324)
650684.33	4191206.46	1404.25794	(17020506)	650734.33	4191206.46	1798.82501	(17120619)
650784.33	4191206.46	2012.44173	(17020802)	650834.33	4191206.46	2042.09698	(17120207)
650884.33	4191206.46	1760.29367	(17121904)	650934.33	4191206.46	1498.89377	(17122321)
650984.33	4191206.46	1214.04441	(17022407)	651034.33	4191206.46	981.30868	(17121119)
651084.33	4191206.46	752.66036	(17120617)	651134.33	4191206.46	626.60359	(14022307)
651184.33	4191206.46	536.11900	(14011317)	651234.33	4191206.46	458.31236	(14010220)
651284.33	4191206.46	410.98331	(15010317)	651334.33	4191206.46	358.62406	(13020204)
650334.33	4191256.46	512.96131	(17121007)	650384.33	4191256.46	572.47225	(17020404)
650434.33	4191256.46	600.23751	(17120905)	650484.33	4191256.46	622.56696	(17043004)
650534.33	4191256.46	649.05749	(17120208)	650584.33	4191256.46	773.58779	(17121324)
650634.33	4191256.46	948.07342	(17122909)	650684.33	4191256.46	1067.48462	(17122724)
650734.33	4191256.46	1226.23109	(17120219)	650784.33	4191256.46	1432.57386	(17120618)
650834.33	4191256.46	1352.98774	(17012905)	650884.33	4191256.46	1339.24721	(17022508)
650934.33	4191256.46	1159.59651	(17021405)	650984.33	4191256.46	1026.43427	(17122321)
651034.33	4191256.46	873.65670	(17022407)	651084.33	4191256.46	731.55668	(17123020)
651134.33	4191256.46	609.45167	(17121119)	651184.33	4191256.46	502.48894	(17120617)
651234.33	4191256.46	437.54883	(14022307)	651284.33	4191256.46	385.42186	(13020908)
651334.33	4191256.46	345.02646	(14011317)	650334.33	4191306.46	443.83799	(17120905)
650384.33	4191306.46	468.51330	(17043004)	650434.33	4191306.46	456.46853	(17120624)
650484.33	4191306.46	492.13547	(15022507)	650534.33	4191306.46	572.39583	(17123024)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***

INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	694.03522	(17122909)	650634.33	4191306.46	738.07004	(17122724)
650684.33	4191306.46	918.63089	(17120619)	650734.33	4191306.46	932.34160	(17012717)
650784.33	4191306.46	1064.10274	(17120618)	650834.33	4191306.46	960.45620	(17021222)
650884.33	4191306.46	987.09543	(17121401)	650934.33	4191306.46	924.11099	(17121904)
650984.33	4191306.46	826.01590	(17022706)	651034.33	4191306.46	754.16371	(17122321)
651084.33	4191306.46	660.15007	(17022407)	651134.33	4191306.46	545.09715	(17123020)
651184.33	4191306.46	502.96946	(17121119)	651234.33	4191306.46	410.37747	(17121119)
651284.33	4191306.46	366.62730	(17120617)	651334.33	4191306.46	328.06081	(14022307)
650334.33	4191356.46	343.06694	(17043004)	650384.33	4191356.46	363.73585	(17121808)
650434.33	4191356.46	400.01626	(17123024)	650484.33	4191356.46	445.15077	(17123024)
650534.33	4191356.46	533.50630	(17122909)	650584.33	4191356.46	551.90250	(15022501)
650634.33	4191356.46	658.53054	(17022607)	650684.33	4191356.46	765.42659	(17120219)
650734.33	4191356.46	796.13392	(17012717)	650784.33	4191356.46	820.14792	(17120618)
650834.33	4191356.46	786.46742	(17012720)	650884.33	4191356.46	801.43221	(17121401)
650934.33	4191356.46	758.24624	(17022508)	650984.33	4191356.46	724.29801	(17021405)
651034.33	4191356.46	656.83195	(17012601)	651084.33	4191356.46	582.56304	(17122321)
651134.33	4191356.46	518.30919	(17022407)	651184.33	4191356.46	434.19702	(17022407)

651234.33	4191356.46	417.75500	(17123020)	651284.33	4191356.46	370.83362	(17121119)
651334.33	4191356.46	309.49577	(14012706)	650334.33	4191406.46	304.84478	(17120208)
650384.33	4191406.46	338.80470	(17121324)	650434.33	4191406.46	362.24182	(17123021)
650484.33	4191406.46	425.41794	(17122909)	650534.33	4191406.46	451.26505	(17123104)
650584.33	4191406.46	501.28381	(17122724)	650634.33	4191406.46	587.71083	(17022607)
650684.33	4191406.46	576.30837	(17120705)	650734.33	4191406.46	659.04108	(17012717)
650784.33	4191406.46	657.20989	(17121308)	650834.33	4191406.46	666.44500	(17012720)
650884.33	4191406.46	688.19449	(17120207)	650934.33	4191406.46	660.25106	(17022508)
650984.33	4191406.46	591.23686	(17121904)	651034.33	4191406.46	542.02445	(17021405)
651084.33	4191406.46	522.31724	(17012601)	651134.33	4191406.46	466.74923	(17122321)
651184.33	4191406.46	419.22109	(17022407)	651234.33	4191406.46	377.11737	(17022407)
651284.33	4191406.46	347.09021	(17123020)	651334.33	4191406.46	320.06903	(17121119)
650334.33	4191456.46	290.71160	(17121324)	650384.33	4191456.46	304.90555	(17123021)
650434.33	4191456.46	348.71634	(17122909)	650484.33	4191456.46	379.28860	(17020506)
650534.33	4191456.46	392.11597	(17122724)	650584.33	4191456.46	463.11137	(17022607)
650634.33	4191456.46	521.64521	(17120219)	650684.33	4191456.46	478.97704	(15021408)
650734.33	4191456.46	540.31020	(17012717)	650784.33	4191456.46	559.61161	(17122408)
650834.33	4191456.46	571.91365	(17012720)	650884.33	4191456.46	582.20052	(17120207)
650934.33	4191456.46	527.74477	(17022508)	650984.33	4191456.46	492.51511	(17022508)
651034.33	4191456.46	494.84339	(17021405)	651084.33	4191456.46	449.03806	(17022706)
651134.33	4191456.46	419.91453	(17012601)	651184.33	4191456.46	384.42113	(17122321)
651234.33	4191456.46	347.10542	(17022407)	651284.33	4191456.46	328.56197	(17022407)
651334.33	4191456.46	285.40410	(17123020)	650334.33	4191506.46	261.49068	(17123021)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL2 ***
INCLUDING SOURCE(S): VOL2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	292.03349	(17122909)	650434.33	4191506.46	323.11873	(17020506)
650484.33	4191506.46	321.59724	(16120505)	650534.33	4191506.46	359.18280	(17122724)
650584.33	4191506.46	419.03177	(17022607)	650634.33	4191506.46	430.64216	(17120219)
650684.33	4191506.46	434.08260	(17012717)	650734.33	4191506.46	467.35254	(17020802)
650784.33	4191506.46	484.60298	(17122408)	650834.33	4191506.46	496.71206	(17012720)
650884.33	4191506.46	481.27565	(17120207)	650934.33	4191506.46	466.83777	(17121401)
650984.33	4191506.46	465.39043	(17022508)	651034.33	4191506.46	420.65887	(17121904)
651084.33	4191506.46	412.11071	(17021405)	651134.33	4191506.46	376.51034	(17012601)
651184.33	4191506.46	347.10393	(17122321)	651234.33	4191506.46	323.49434	(17122321)
651284.33	4191506.46	292.84696	(17022407)	651334.33	4191506.46	287.83706	(17022407)
650334.33	4191556.46	248.85679	(17122909)	650384.33	4191556.46	277.51689	(17020506)
650434.33	4191556.46	274.64585	(15022501)	650484.33	4191556.46	305.49735	(17122724)
650534.33	4191556.46	348.70354	(17022607)	650584.33	4191556.46	380.81749	(17120219)
650634.33	4191556.46	355.27606	(17120705)	650684.33	4191556.46	398.59389	(17012717)
650734.33	4191556.46	417.51402	(17020802)	650784.33	4191556.46	424.99910	(17122408)
650834.33	4191556.46	436.08461	(17012720)	650884.33	4191556.46	403.48361	(17012905)

650934.33	4191556.46	401.12048	(17121401)	650984.33	4191556.46	408.25457	(17022508)
651034.33	4191556.46	357.79214	(17122223)	651084.33	4191556.46	361.12975	(17021405)
651134.33	4191556.46	331.52926	(17022706)	651184.33	4191556.46	330.46363	(17012601)
651234.33	4191556.46	303.60972	(17122321)	651284.33	4191556.46	277.52366	(17022408)
651334.33	4191556.46	252.25543	(17120205)	650934.45	4191196.80	1573.71615	(17122321)
650934.45	4191240.55	1242.54301	(17022706)	651071.58	4191520.04	405.54125	(17021405)
650517.18	4191503.06	355.24962	(17122724)	650941.63	4190991.11	2081.23110	(17011509)
650974.28	4190903.61	1296.41176	(17122320)	650989.95	4190868.34	1091.24319	(17012908)
651153.79	4190886.56	620.23453	(17011509)	651170.44	4190902.10	555.13761	(17122619)
651162.67	4190888.23	557.77472	(17122619)	651241.49	4191031.43	471.98224	(17122621)
650569.32	4190797.20	796.14917	(16010309)	650392.81	4190782.21	494.05348	(17123107)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	284.13459	(14022101)	650384.33	4190556.46	291.67626	(15122802)
650434.33	4190556.46	318.58593	(13012423)	650484.33	4190556.46	337.90645	(13123108)
650534.33	4190556.46	350.82300	(15022608)	650584.33	4190556.46	386.72847	(17123007)
650634.33	4190556.46	380.96747	(14021105)	650684.33	4190556.46	398.61313	(14120620)
650734.33	4190556.46	438.43595	(17011609)	650784.33	4190556.46	428.66760	(17122820)
650834.33	4190556.46	511.74188	(17123009)	650884.33	4190556.46	422.46761	(15011509)
650934.33	4190556.46	457.80668	(17122917)	650984.33	4190556.46	434.52475	(17012520)
651034.33	4190556.46	426.63362	(17012804)	651084.33	4190556.46	406.74466	(17122920)
651134.33	4190556.46	371.26711	(17020801)	651184.33	4190556.46	348.31657	(17020801)
651234.33	4190556.46	330.02514	(17120120)	651284.33	4190556.46	295.73472	(17011508)
651334.33	4190556.46	291.24414	(17012908)	650334.33	4190606.46	302.21049	(16020321)
650384.33	4190606.46	324.00535	(16010309)	650434.33	4190606.46	326.62109	(15122802)
650484.33	4190606.46	368.08176	(13012423)	650534.33	4190606.46	385.29461	(13020306)
650584.33	4190606.46	405.50025	(15021203)	650634.33	4190606.46	444.73064	(17122918)
650684.33	4190606.46	444.98482	(16012703)	650734.33	4190606.46	470.80583	(17011609)
650784.33	4190606.46	498.95524	(17011609)	650834.33	4190606.46	579.19098	(17123009)
650884.33	4190606.46	475.26675	(17120822)	650934.33	4190606.46	497.01375	(17122917)
650984.33	4190606.46	493.68277	(17012520)	651034.33	4190606.46	478.31345	(17122620)
651084.33	4190606.46	442.63965	(17012903)	651134.33	4190606.46	427.64960	(17020801)
651184.33	4190606.46	381.17175	(17120120)	651234.33	4190606.46	343.57439	(17011508)
651284.33	4190606.46	331.55691	(17012908)	651334.33	4190606.46	287.76944	(17120121)
650334.33	4190656.46	324.73696	(15010508)	650384.33	4190656.46	348.31517	(16020321)
650434.33	4190656.46	373.39083	(16010309)	650484.33	4190656.46	395.73464	(15010507)
650534.33	4190656.46	428.29885	(14021122)	650584.33	4190656.46	454.21018	(15022608)
650634.33	4190656.46	504.67019	(17123007)	650684.33	4190656.46	503.51328	(13012005)
650734.33	4190656.46	531.24774	(14012501)	650784.33	4190656.46	587.03543	(17011609)
650834.33	4190656.46	663.38429	(17123009)	650884.33	4190656.46	558.81917	(17122917)
650934.33	4190656.46	559.18661	(17013024)	650984.33	4190656.46	548.78343	(17122319)

651034.33	4190656.46	538.51318	(17122920)	651084.33	4190656.46	490.51606	(17020801)
651134.33	4190656.46	427.81859	(17120120)	651184.33	4190656.46	397.62115	(17011508)
651234.33	4190656.46	380.99427	(17012908)	651284.33	4190656.46	331.80371	(17120121)
651334.33	4190656.46	287.91280	(17013019)	650334.33	4190706.46	348.24882	(14120608)
650384.33	4190706.46	376.01676	(14021223)	650434.33	4190706.46	407.82544	(16020321)
650484.33	4190706.46	437.59566	(15122802)	650534.33	4190706.46	480.08712	(15010507)
650584.33	4190706.46	515.94638	(13123108)	650634.33	4190706.46	548.10621	(17123007)
650684.33	4190706.46	579.30535	(17122918)	650734.33	4190706.46	618.18534	(15012509)
650784.33	4190706.46	695.58480	(17011609)	650834.33	4190706.46	770.83527	(17123009)
650884.33	4190706.46	678.65206	(17122917)	650934.33	4190706.46	668.02788	(17013024)
650984.33	4190706.46	643.61337	(17012804)	651034.33	4190706.46	592.64766	(17012903)
651084.33	4190706.46	552.82033	(17020801)	651134.33	4190706.46	489.16292	(17120120)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***
INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	442.23163	(17012908)	651234.33	4190706.46	391.43604	(17012908)
651284.33	4190706.46	332.52302	(17013019)	651334.33	4190706.46	357.34531	(17122320)
650334.33	4190756.46	371.76487	(13012105)	650384.33	4190756.46	406.80383	(14120608)
650434.33	4190756.46	444.53847	(14021223)	650484.33	4190756.46	486.98690	(16020321)
650534.33	4190756.46	529.09756	(15122802)	650584.33	4190756.46	585.80099	(13012423)
650634.33	4190756.46	620.74175	(13020306)	650684.33	4190756.46	698.44835	(17122918)
650734.33	4190756.46	713.47600	(14120620)	650784.33	4190756.46	828.99188	(17011609)
650834.33	4190756.46	911.70706	(17123009)	650884.33	4190756.46	828.54566	(17122917)
650934.33	4190756.46	784.28549	(17012520)	650984.33	4190756.46	750.74250	(17122920)
651034.33	4190756.46	685.60840	(17020801)	651084.33	4190756.46	605.87353	(17120120)
651134.33	4190756.46	518.55225	(17012908)	651184.33	4190756.46	471.95025	(17012908)
651234.33	4190756.46	407.14101	(17122320)	651284.33	4190756.46	417.30949	(17122320)
651334.33	4190756.46	381.97480	(17121219)	650334.33	4190806.46	403.14745	(17120517)
650384.33	4190806.46	431.00125	(17123107)	650434.33	4190806.46	481.59822	(13010908)
650484.33	4190806.46	535.08381	(14021223)	650534.33	4190806.46	596.37040	(16020321)
650584.33	4190806.46	649.05591	(15122802)	650634.33	4190806.46	729.72224	(13123108)
650684.33	4190806.46	804.14928	(17123007)	650734.33	4190806.46	849.10920	(13012005)
650784.33	4190806.46	989.52259	(17011609)	650834.33	4190806.46	1102.61629	(17123009)
650884.33	4190806.46	1011.17845	(17122917)	650934.33	4190806.46	917.25649	(17122319)
650984.33	4190806.46	856.04730	(17012903)	651034.33	4190806.46	733.04984	(17020801)
651084.33	4190806.46	652.35194	(17011508)	651134.33	4190806.46	583.99414	(17012908)
651184.33	4190806.46	511.14043	(17122320)	651234.33	4190806.46	487.93153	(17122320)
651284.33	4190806.46	442.32483	(17121320)	651334.33	4190806.46	453.21885	(17011509)
650334.33	4190856.46	445.12614	(17121504)	650384.33	4190856.46	499.12642	(17120517)
650434.33	4190856.46	515.57004	(15010907)	650484.33	4190856.46	590.64354	(13010908)
650534.33	4190856.46	665.82048	(13021704)	650584.33	4190856.46	755.16869	(16020321)
650634.33	4190856.46	836.94980	(15010507)	650684.33	4190856.46	948.96922	(13020306)

650734.33	4190856.46	1075.35648 (17122918)	650784.33	4190856.46	1170.18275 (17011609)
650834.33	4190856.46	1372.27789 (17123009)	650884.33	4190856.46	1216.63388 (17122917)
650934.33	4190856.46	1147.27831 (17122620)	650984.33	4190856.46	1040.78117 (17020801)
651034.33	4190856.46	847.60793 (17011508)	651084.33	4190856.46	747.91557 (17012908)
651134.33	4190856.46	658.77083 (17122320)	651184.33	4190856.46	603.93337 (17121219)
651234.33	4190856.46	577.46134 (17011509)	651284.33	4190856.46	532.75639 (17011509)
651334.33	4190856.46	418.08465 (17011509)	650334.33	4190906.46	469.98910 (17120203)
650384.33	4190906.46	523.80701 (17123002)	650434.33	4190906.46	598.81918 (17121504)
650484.33	4190906.46	679.17362 (17120517)	650534.33	4190906.46	736.36943 (13012105)
650584.33	4190906.46	864.20284 (13010906)	650634.33	4190906.46	1001.52946 (16020321)
650684.33	4190906.46	1164.93836 (13012423)	650734.33	4190906.46	1346.38516 (17123007)
650784.33	4190906.46	1480.58886 (15012509)	650834.33	4190906.46	1773.53550 (17123009)
650884.33	4190906.46	1561.21773 (17013024)	650934.33	4190906.46	1404.18627 (17012903)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650984.33	4190906.46	1200.24869 (17120120)	651034.33	4190906.46	1004.39295 (17012908)
651084.33	4190906.46	876.13190 (17122320)	651134.33	4190906.46	754.78267 (17121219)
651184.33	4190906.46	739.98023 (17011509)	651234.33	4190906.46	579.49713 (17011509)
651284.33	4190906.46	411.36713 (17122619)	651334.33	4190906.46	362.97620 (17122619)
650334.33	4190956.46	488.20166 (17123023)	650384.33	4190956.46	573.10968 (17021308)
650434.33	4190956.46	636.30302 (17021308)	650484.33	4190956.46	738.61965 (17021420)
650534.33	4190956.46	869.25779 (17121504)	650584.33	4190956.46	970.20092 (15010907)
650634.33	4190956.46	1179.77635 (14120608)	650684.33	4190956.46	1444.15286 (16010309)
650734.33	4190956.46	1718.66067 (13123108)	650784.33	4190956.46	1956.59420 (16012703)
650834.33	4190956.46	2409.24313 (17123009)	650884.33	4190956.46	2079.47572 (17122701)
650934.33	4190956.46	1778.53376 (17020801)	650984.33	4190956.46	1444.92650 (17012908)
651034.33	4190956.46	1206.06266 (17122320)	651084.33	4190956.46	1090.86017 (17011509)
651134.33	4190956.46	870.40780 (17011509)	651184.33	4190956.46	584.84946 (17122619)
651234.33	4190956.46	483.39789 (17121906)	651284.33	4190956.46	427.54277 (17020824)
651334.33	4190956.46	354.41757 (17020824)	650334.33	4191006.46	506.76088 (17013105)
650384.33	4191006.46	574.23055 (17012823)	650434.33	4191006.46	666.03277 (17121207)
650484.33	4191006.46	786.82851 (17123023)	650534.33	4191006.46	969.60122 (17021308)
650584.33	4191006.46	1151.02749 (17021420)	650634.33	4191006.46	1430.19823 (17121504)
650684.33	4191006.46	1751.66508 (13012105)	650734.33	4191006.46	2326.07370 (16010309)
650784.33	4191006.46	2897.74703 (17123007)	650834.33	4191006.46	3466.71222 (17123009)
650884.33	4191006.46	2965.64834 (17122920)	650934.33	4191006.46	2305.91224 (17012908)
650984.33	4191006.46	1785.69264 (17121219)	651034.33	4191006.46	1491.38445 (17011509)
651084.33	4191006.46	924.71374 (17122619)	651134.33	4191006.46	735.50096 (17020824)
651184.33	4191006.46	584.27465 (17011303)	651234.33	4191006.46	503.45436 (17011303)
651284.33	4191006.46	439.13423 (17121319)	651334.33	4191006.46	384.16442 (17121319)
650334.33	4191056.46	510.95495 (17121807)	650384.33	4191056.46	583.67797 (17022506)

650434.33	4191056.46	693.67140	(17022506)	650484.33	4191056.46	819.60826	(17022506)
650534.33	4191056.46	991.14001	(17013105)	650584.33	4191056.46	1226.77046	(17012823)
650634.33	4191056.46	1601.54078	(17123023)	650684.33	4191056.46	2176.30882	(17021308)
650734.33	4191056.46	3018.17910	(17120517)	650784.33	4191056.46	4231.64742	(16010309)
650834.33	4191056.46	4951.96083	(16030205)	650884.33	4191056.46	4105.52378	(17012908)
650934.33	4191056.46	3199.81598	(17011509)	650984.33	4191056.46	1761.49728	(17122619)
651034.33	4191056.46	1253.30499	(17011303)	651084.33	4191056.46	969.58137	(17121319)
651134.33	4191056.46	759.59504	(17010504)	651184.33	4191056.46	636.19308	(17122519)
651234.33	4191056.46	547.21351	(17122519)	651284.33	4191056.46	468.85396	(17122519)
651334.33	4191056.46	402.26985	(17122519)	650334.33	4191106.46	526.37489	(17011505)
650384.33	4191106.46	603.29916	(17011505)	650434.33	4191106.46	701.46777	(17011505)
650484.33	4191106.46	830.06937	(17011505)	650534.33	4191106.46	1003.95535	(17011505)
650584.33	4191106.46	1268.32424	(17013008)	650634.33	4191106.46	1671.89173	(17013008)
650684.33	4191106.46	2312.85948	(17013008)	650734.33	4191106.46	3479.17390	(17121807)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	5482.87669	(14110308)	650834.33	4191106.46	11150.26728	(15011010)
650884.33	4191106.46	5478.52002	(14020117)	650934.33	4191106.46	3086.37328	(17122719)
650984.33	4191106.46	1898.84999	(17122621)	651034.33	4191106.46	1328.85903	(17122621)
651084.33	4191106.46	992.91983	(17122621)	651134.33	4191106.46	777.22564	(17122621)
651184.33	4191106.46	629.48573	(17122621)	651234.33	4191106.46	523.19741	(17122621)
651284.33	4191106.46	443.77485	(16010203)	651334.33	4191106.46	385.75962	(16010203)
650334.33	4191156.46	529.08014	(17122903)	650384.33	4191156.46	608.98232	(17122903)
650434.33	4191156.46	705.41126	(17122903)	650484.33	4191156.46	841.30748	(17121322)
650534.33	4191156.46	1021.37454	(17121322)	650584.33	4191156.46	1256.70666	(17120702)
650634.33	4191156.46	1560.51279	(17120702)	650684.33	4191156.46	2185.04735	(17122608)
650734.33	4191156.46	3307.24293	(17121007)	650784.33	4191156.46	4633.23339	(15022507)
650834.33	4191156.46	6316.13805	(17111222)	650884.33	4191156.46	4717.53758	(15010118)
650934.33	4191156.46	2889.16203	(14022106)	650984.33	4191156.46	1895.34641	(15122617)
651034.33	4191156.46	1337.98194	(14010519)	651084.33	4191156.46	1002.33485	(15122424)
651134.33	4191156.46	799.35441	(14021603)	651184.33	4191156.46	653.67079	(14021603)
651234.33	4191156.46	546.93824	(14022208)	651284.33	4191156.46	478.38957	(14022208)
651334.33	4191156.46	421.80834	(14022208)	650334.33	4191206.46	500.14876	(17120702)
650384.33	4191206.46	542.79845	(17120702)	650434.33	4191206.46	642.09179	(17122608)
650484.33	4191206.46	770.41657	(17123105)	650534.33	4191206.46	958.22346	(17011201)
650584.33	4191206.46	1199.65423	(17120707)	650634.33	4191206.46	1531.02037	(17020404)
650684.33	4191206.46	1847.33075	(17122609)	650734.33	4191206.46	2157.80043	(17121324)
650784.33	4191206.46	3045.45500	(17022607)	650834.33	4191206.46	3648.70607	(17122408)
650884.33	4191206.46	3151.01204	(17021405)	650934.33	4191206.46	2394.46125	(17022407)
650984.33	4191206.46	1693.09789	(17121119)	651034.33	4191206.46	1213.22914	(14022307)
651084.33	4191206.46	946.65155	(14010220)	651134.33	4191206.46	776.45953	(15010317)

651184.33	4191206.46	637.67253	(15122617)	651234.33	4191206.46	530.24570	(15122617)
651284.33	4191206.46	457.68643	(14010519)	651334.33	4191206.46	396.61936	(14010519)
650334.33	4191256.46	476.73263	(17123105)	650384.33	4191256.46	567.66858	(17011201)
650434.33	4191256.46	655.11041	(17120707)	650484.33	4191256.46	775.29571	(17121007)
650534.33	4191256.46	905.63710	(17020404)	650584.33	4191256.46	1003.76770	(17122609)
650634.33	4191256.46	1012.76853	(17121808)	650684.33	4191256.46	1242.00618	(17121324)
650734.33	4191256.46	1527.61877	(16120505)	650784.33	4191256.46	1957.03651	(17120219)
650834.33	4191256.46	2299.51423	(17122408)	650884.33	4191256.46	2079.09772	(17022508)
650934.33	4191256.46	1740.09563	(17022706)	650984.33	4191256.46	1409.95056	(17022407)
651034.33	4191256.46	1147.85353	(17123020)	651084.33	4191256.46	852.90273	(17120617)
651134.33	4191256.46	709.15271	(14022307)	651184.33	4191256.46	595.71136	(14011317)
651234.33	4191256.46	505.63712	(14010220)	651284.33	4191256.46	448.97408	(15010317)
651334.33	4191256.46	388.21319	(13020204)	650334.33	4191306.46	484.45711	(17122805)
650384.33	4191306.46	546.58197	(17121007)	650434.33	4191306.46	612.42385	(17020404)
650484.33	4191306.46	646.32655	(17122609)	650534.33	4191306.46	661.29386	(17043004)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	704.92873	(17120208)	650634.33	4191306.46	837.94513	(17123021)
650684.33	4191306.46	1032.32249	(17020506)	650734.33	4191306.46	1292.43005	(17022607)
650784.33	4191306.46	1374.84348	(17012717)	650834.33	4191306.46	1596.68784	(17122408)
650884.33	4191306.46	1445.91409	(17121401)	650934.33	4191306.46	1315.12039	(17121904)
650984.33	4191306.46	1177.92418	(17012601)	651034.33	4191306.46	943.20384	(17022407)
651084.33	4191306.46	789.38759	(17123020)	651134.33	4191306.46	697.88076	(17121119)
651184.33	4191306.46	555.19956	(17120617)	651234.33	4191306.46	479.25054	(14022307)
651284.33	4191306.46	420.07600	(13020908)	651334.33	4191306.46	373.24597	(14011317)
650334.33	4191356.46	448.85190	(17020404)	650384.33	4191356.46	469.20234	(17120905)
650434.33	4191356.46	494.59710	(17043004)	650484.33	4191356.46	486.36217	(17121808)
650534.33	4191356.46	530.46429	(17123024)	650584.33	4191356.46	620.61286	(17123021)
650634.33	4191356.46	751.44494	(17020506)	650684.33	4191356.46	832.69383	(17122724)
650734.33	4191356.46	1028.79150	(17120219)	650784.33	4191356.46	1077.26421	(17012717)
650834.33	4191356.46	1190.37447	(17122408)	650884.33	4191356.46	1141.30245	(17120207)
650934.33	4191356.46	1044.16678	(17022508)	650984.33	4191356.46	949.25464	(17021405)
651034.33	4191356.46	823.32957	(17012601)	651084.33	4191356.46	693.33978	(17120205)
651134.33	4191356.46	609.21453	(17022407)	651184.33	4191356.46	553.12019	(17123020)
651234.33	4191356.46	466.68247	(17121119)	651284.33	4191356.46	398.42092	(17120617)
651334.33	4191356.46	352.24494	(14022307)	650334.33	4191406.46	382.41364	(17043004)
650384.33	4191406.46	360.48292	(17120624)	650434.33	4191406.46	386.33184	(17120208)
650484.33	4191406.46	434.35494	(17121324)	650534.33	4191406.46	484.45893	(17123021)
650584.33	4191406.46	576.40178	(17122909)	650634.33	4191406.46	595.16437	(16020808)
650684.33	4191406.46	750.41520	(17022607)	650734.33	4191406.46	741.53325	(17120705)
650784.33	4191406.46	828.26193	(17122622)	650834.33	4191406.46	932.46985	(17122408)

650884.33	4191406.46	861.57838	(17120207)	650934.33	4191406.46	835.68100	(17022508)
650984.33	4191406.46	760.03948	(17121904)	651034.33	4191406.46	693.93710	(17022706)
651084.33	4191406.46	636.08948	(17122321)	651134.33	4191406.46	541.13714	(17120205)
651184.33	4191406.46	503.97739	(17022407)	651234.33	4191406.46	447.71511	(17123020)
651284.33	4191406.46	404.21451	(17121119)	651334.33	4191406.46	333.17196	(14012706)
650334.33	4191456.46	300.93303	(17121808)	650384.33	4191456.46	319.17612	(17120208)
650434.33	4191456.46	362.48025	(17121324)	650484.33	4191456.46	392.47112	(17123021)
650534.33	4191456.46	458.80635	(17122909)	650584.33	4191456.46	465.55850	(15022501)
650634.33	4191456.46	524.31269	(17122724)	650684.33	4191456.46	639.54820	(17120219)
650734.33	4191456.46	599.49819	(15021408)	650784.33	4191456.46	694.91653	(17020802)
650834.33	4191456.46	756.99446	(17122408)	650884.33	4191456.46	666.61848	(17012905)
650934.33	4191456.46	677.39711	(17121401)	650984.33	4191456.46	629.91349	(17022508)
651034.33	4191456.46	616.08774	(17021405)	651084.33	4191456.46	552.55944	(17012601)
651134.33	4191456.46	513.54575	(17122321)	651184.33	4191456.46	438.10901	(17120205)
651234.33	4191456.46	421.74932	(17022407)	651284.33	4191456.46	357.51608	(17123020)
651334.33	4191456.46	341.60433	(17123020)	650334.33	4191506.46	268.04463	(15022507)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL3 ***

INCLUDING SOURCE(S): VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	306.65029	(17121324)	650434.33	4191506.46	326.81769	(17123021)
650484.33	4191506.46	375.25107	(17122909)	650534.33	4191506.46	388.74723	(17123104)
650584.33	4191506.46	428.16800	(17122724)	650634.33	4191506.46	506.75522	(17022607)
650684.33	4191506.46	530.06393	(17120219)	650734.33	4191506.46	541.33102	(17012717)
650784.33	4191506.46	590.35182	(17020802)	650834.33	4191506.46	631.22741	(17122408)
650884.33	4191506.46	525.18872	(16010408)	650934.33	4191506.46	562.50473	(17123005)
650984.33	4191506.46	570.30880	(17022508)	651034.33	4191506.46	510.93103	(17121904)
651084.33	4191506.46	484.56189	(17021405)	651134.33	4191506.46	462.04249	(17012601)
651184.33	4191506.46	424.29173	(17122321)	651234.33	4191506.46	364.51322	(17120205)
651284.33	4191506.46	357.42863	(17022407)	651334.33	4191506.46	293.14283	(17120122)
650334.33	4191556.46	262.72072	(17121324)	650384.33	4191556.46	277.97213	(17123021)
650434.33	4191556.46	313.44654	(17122909)	650484.33	4191556.46	332.20190	(17020506)
650534.33	4191556.46	340.14279	(16020808)	650584.33	4191556.46	386.19501	(17022607)
650634.33	4191556.46	446.96094	(17120619)	650684.33	4191556.46	422.82285	(17120705)
650734.33	4191556.46	481.57270	(17012717)	650784.33	4191556.46	507.82736	(17120618)
650834.33	4191556.46	537.40555	(17122408)	650884.33	4191556.46	453.30925	(17021222)
650934.33	4191556.46	507.50796	(17120207)	650984.33	4191556.46	475.99311	(17022508)
651034.33	4191556.46	425.90772	(17122223)	651084.33	4191556.46	433.34620	(17021405)
651134.33	4191556.46	397.35582	(17022706)	651184.33	4191556.46	385.64160	(17012601)
651234.33	4191556.46	357.35283	(17122321)	651284.33	4191556.46	309.74320	(17120205)
651334.33	4191556.46	306.57821	(17022407)	650934.45	4191196.80	2468.86159	(17022407)
650934.45	4191240.55	1968.91354	(17012601)	651071.58	4191520.04	489.76594	(17021405)
650517.18	4191503.06	397.56649	(17020506)	650941.63	4190991.11	2022.45036	(17012908)

650974.28	4190903.61	1193.69828	(17120120)	650989.95	4190868.34	1029.91478	(17020801)
651153.79	4190886.56	693.63909	(17121219)	651170.44	4190902.10	746.34293	(17011509)
651162.67	4190888.23	669.09677	(17121219)	651241.49	4191031.43	503.29945	(17121319)
650569.32	4190797.20	621.71894	(15122802)	650392.81	4190782.21	429.87311	(13010908)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	332.72492	(13021704)	650384.33	4190556.46	362.61720	(13013108)
650434.33	4190556.46	390.41260	(16010309)	650484.33	4190556.46	403.63692	(15122802)
650534.33	4190556.46	450.70437	(14021122)	650584.33	4190556.46	475.80515	(13020306)
650634.33	4190556.46	530.62364	(17123007)	650684.33	4190556.46	532.76265	(14021105)
650734.33	4190556.46	560.20323	(15010901)	650784.33	4190556.46	627.78706	(17011609)
650834.33	4190556.46	703.10814	(17123009)	650884.33	4190556.46	603.48275	(17122917)
650934.33	4190556.46	602.51238	(17013024)	650984.33	4190556.46	585.77933	(17122319)
651034.33	4190556.46	552.93128	(17122920)	651084.33	4190556.46	527.09686	(17020801)
651134.33	4190556.46	464.74146	(17120120)	651184.33	4190556.46	414.58451	(17011508)
651234.33	4190556.46	398.91760	(17012908)	651284.33	4190556.46	326.96903	(17120121)
651334.33	4190556.46	316.68588	(17122320)	650334.33	4190606.46	353.76771	(13010908)
650384.33	4190606.46	387.65349	(13021704)	650434.33	4190606.46	426.06353	(13013108)
650484.33	4190606.46	463.79108	(16010309)	650534.33	4190606.46	487.15182	(15010507)
650584.33	4190606.46	541.04250	(13123108)	650634.33	4190606.46	573.60799	(15022608)
650684.33	4190606.46	633.76767	(17122918)	650734.33	4190606.46	657.90388	(15012509)
650784.33	4190606.46	745.74140	(17011609)	650834.33	4190606.46	822.42989	(17123009)
650884.33	4190606.46	734.73315	(17122917)	650934.33	4190606.46	710.10377	(17013024)
650984.33	4190606.46	679.96485	(17122620)	651034.33	4190606.46	616.21336	(17012903)
651084.33	4190606.46	543.93572	(17020801)	651134.33	4190606.46	496.24651	(17011508)
651184.33	4190606.46	473.01595	(17012908)	651234.33	4190606.46	383.50328	(17120121)
651284.33	4190606.46	379.92009	(17122320)	651334.33	4190606.46	361.72751	(17122320)
650334.33	4190656.46	377.40328	(17123107)	650384.33	4190656.46	419.48860	(13010908)
650434.33	4190656.46	460.58236	(13010906)	650484.33	4190656.46	511.02912	(13013108)
650534.33	4190656.46	561.88260	(16010309)	650584.33	4190656.46	614.16852	(15010507)
650634.33	4190656.46	662.46008	(17121508)	650684.33	4190656.46	752.11629	(17123007)
650734.33	4190656.46	762.88729	(16012703)	650784.33	4190656.46	890.00774	(17011609)
650834.33	4190656.46	980.81686	(17123009)	650884.33	4190656.46	897.76339	(17122917)
650934.33	4190656.46	840.46705	(17012520)	650984.33	4190656.46	795.09776	(17122920)
651034.33	4190656.46	730.94554	(17020801)	651084.33	4190656.46	624.38765	(17120120)
651134.33	4190656.46	571.37231	(17012908)	651184.33	4190656.46	459.00508	(17120121)
651234.33	4190656.46	462.21918	(17122320)	651284.33	4190656.46	423.78774	(17121219)
651334.33	4190656.46	388.04795	(17011509)	650334.33	4190706.46	433.03417	(17120517)
650384.33	4190706.46	443.70151	(15010907)	650434.33	4190706.46	500.39095	(13012105)
650484.33	4190706.46	558.36805	(13010906)	650534.33	4190706.46	629.44640	(13013108)
650584.33	4190706.46	697.16787	(16010309)	650634.33	4190706.46	780.44585	(13012423)

650684.33	4190706.46	851.27782	(15022608)	650734.33	4190706.46	921.41373	(14021105)
650784.33	4190706.46	1060.40429	(17011609)	650834.33	4190706.46	1198.80273	(17123009)
650884.33	4190706.46	1092.06723	(17122917)	650934.33	4190706.46	1005.55918	(17012804)
650984.33	4190706.46	902.75409	(17012903)	651034.33	4190706.46	806.13792	(17120120)
651084.33	4190706.46	705.49247	(17012908)	651134.33	4190706.46	563.85396	(17120121)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	570.87222	(17122320)	651234.33	4190706.46	513.78303	(17121219)
651284.33	4190706.46	499.05451	(17011509)	651334.33	4190706.46	463.21827	(17011509)
650334.33	4190756.46	452.65992	(17013106)	650384.33	4190756.46	510.41483	(17121504)
650434.33	4190756.46	569.16784	(17120517)	650484.33	4190756.46	605.11904	(17123107)
650534.33	4190756.46	698.22508	(14120608)	650584.33	4190756.46	803.32484	(13013108)
650634.33	4190756.46	902.80035	(15122802)	650684.33	4190756.46	1036.77452	(13123108)
650734.33	4190756.46	1179.52571	(17122918)	650784.33	4190756.46	1247.61818	(17012817)
650834.33	4190756.46	1512.75231	(17123009)	650884.33	4190756.46	1296.31594	(17122917)
650934.33	4190756.46	1259.40896	(17122920)	650984.33	4190756.46	1079.86779	(17020801)
651034.33	4190756.46	892.94268	(17012908)	651084.33	4190756.46	717.02984	(17120121)
651134.33	4190756.46	715.28842	(17122320)	651184.33	4190756.46	625.84758	(17011509)
651234.33	4190756.46	621.17096	(17011509)	651284.33	4190756.46	502.36322	(17011509)
651334.33	4190756.46	354.11423	(17011509)	650334.33	4190806.46	490.30133	(17021308)
650384.33	4190806.46	540.43367	(17120203)	650434.33	4190806.46	608.81589	(17013106)
650484.33	4190806.46	705.73127	(17121504)	650534.33	4190806.46	774.73218	(17120517)
650584.33	4190806.46	909.70357	(13010908)	650634.33	4190806.46	1077.31487	(13013108)
650684.33	4190806.46	1225.55509	(15122802)	650734.33	4190806.46	1464.97488	(15022608)
650784.33	4190806.46	1663.74851	(15012509)	650834.33	4190806.46	1991.29764	(17123009)
650884.33	4190806.46	1745.52942	(17013024)	650934.33	4190806.46	1519.04104	(17012903)
650984.33	4190806.46	1251.72064	(17011508)	651034.33	4190806.46	959.85563	(17013019)
651084.33	4190806.46	917.78135	(17121219)	651134.33	4190806.46	872.18476	(17011509)
651184.33	4190806.46	719.92841	(17011509)	651234.33	4190806.46	484.73962	(17011509)
651284.33	4190806.46	419.81521	(17122619)	651334.33	4190806.46	364.46367	(17020824)
650334.33	4190856.46	493.01017	(17121207)	650384.33	4190856.46	567.07496	(17123023)
650434.33	4190856.46	668.81444	(17021308)	650484.33	4190856.46	759.65405	(17021308)
650534.33	4190856.46	892.05264	(17021420)	650584.33	4190856.46	1078.04759	(17120517)
650634.33	4190856.46	1243.80923	(13012105)	650684.33	4190856.46	1553.90085	(13013108)
650734.33	4190856.46	1917.41632	(13012423)	650784.33	4190856.46	2245.51942	(14021105)
650834.33	4190856.46	2768.77757	(17123009)	650884.33	4190856.46	2397.06577	(17012804)
650934.33	4190856.46	1965.25182	(17120120)	650984.33	4190856.46	1405.09858	(17122320)
651034.33	4190856.46	1271.39707	(17121219)	651084.33	4190856.46	1136.87910	(17011509)
651134.33	4190856.46	715.57668	(17011509)	651184.33	4190856.46	578.67819	(17121906)
651234.33	4190856.46	500.91798	(17020824)	651284.33	4190856.46	417.35149	(17011303)
651334.33	4190856.46	372.30124	(17011303)	650334.33	4190906.46	505.31552	(17022506)

650384.33	4190906.46	583.81536	(17013105)	650434.33	4190906.46	677.61917	(17013105)
650484.33	4190906.46	795.94818	(17121207)	650534.33	4190906.46	966.25218	(17123023)
650584.33	4190906.46	1224.49837	(17021308)	650634.33	4190906.46	1511.39753	(17021420)
650684.33	4190906.46	1959.86417	(17120517)	650734.33	4190906.46	2534.86610	(14021223)
650784.33	4190906.46	3368.83430	(15022608)	650834.33	4190906.46	4035.24808	(17123009)
650884.33	4190906.46	3386.69016	(17020801)	650934.33	4190906.46	2445.89016	(17122320)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	2103.09108	(17011509)	651034.33	4190906.46	1230.59466	(17122619)
651084.33	4190906.46	938.99277	(17020824)	651134.33	4190906.46	734.27657	(17011303)
651184.33	4190906.46	605.52535	(17121319)	651234.33	4190906.46	520.60849	(17121319)
651284.33	4190906.46	440.00540	(17010504)	651334.33	4190906.46	382.44820	(17122519)
650334.33	4190956.46	505.28850	(17121807)	650384.33	4190956.46	589.45232	(17121807)
650434.33	4190956.46	693.57843	(17121807)	650484.33	4190956.46	822.41750	(17121807)
650534.33	4190956.46	993.97642	(17022506)	650584.33	4190956.46	1267.94979	(17022506)
650634.33	4190956.46	1642.15686	(17013105)	650684.33	4190956.46	2246.04387	(17121207)
650734.33	4190956.46	3308.97942	(17021308)	650784.33	4190956.46	4872.11017	(17041007)
650834.33	4190956.46	6325.83659	(15111205)	650884.33	4190956.46	4814.71492	(15012909)
650934.33	4190956.46	2847.30834	(17122619)	650984.33	4190956.46	1818.62120	(17011303)
651034.33	4190956.46	1294.48091	(17010504)	651084.33	4190956.46	1013.00217	(17122519)
651134.33	4190956.46	806.93841	(17122519)	651184.33	4190956.46	647.62691	(17122519)
651234.33	4190956.46	539.28569	(17122719)	651284.33	4190956.46	456.87516	(17122719)
651334.33	4190956.46	390.94084	(17122719)	650334.33	4191006.46	526.37489	(17011505)
650384.33	4191006.46	603.29916	(17011505)	650434.33	4191006.46	701.46777	(17011505)
650484.33	4191006.46	838.72845	(17013107)	650534.33	4191006.46	1030.03817	(17013107)
650584.33	4191006.46	1303.50290	(17013107)	650634.33	4191006.46	1714.23474	(17013107)
650684.33	4191006.46	2362.85698	(17013107)	650734.33	4191006.46	3509.59259	(17123003)
650784.33	4191006.46	5800.58356	(16121316)	650834.33	4191006.46	9311.68187	(16020809)
650884.33	4191006.46	5495.41771	(13040507)	650934.33	4191006.46	3151.46253	(14022208)
650984.33	4191006.46	2053.39465	(14022208)	651034.33	4191006.46	1446.89334	(14022208)
651084.33	4191006.46	1084.76589	(14022208)	651134.33	4191006.46	850.68883	(14022208)
651184.33	4191006.46	689.71851	(14022208)	651234.33	4191006.46	573.61609	(14022208)
651284.33	4191006.46	486.68779	(14022208)	651334.33	4191006.46	419.62958	(14022208)
650334.33	4191056.46	527.51817	(17121322)	650384.33	4191056.46	602.86182	(17121322)
650434.33	4191056.46	688.25194	(17120702)	650484.33	4191056.46	812.51052	(17120702)
650534.33	4191056.46	933.68397	(17120702)	650584.33	4191056.46	1191.48985	(17122608)
650634.33	4191056.46	1592.98265	(17011201)	650684.33	4191056.46	2190.39697	(17121007)
650734.33	4191056.46	3060.03265	(17122609)	650784.33	4191056.46	3977.45399	(17020506)
650834.33	4191056.46	5022.97034	(17030308)	650884.33	4191056.46	4088.82849	(17012601)
650934.33	4191056.46	2718.07173	(17121119)	650984.33	4191056.46	1791.14950	(14022106)
651034.33	4191056.46	1318.79069	(15010317)	651084.33	4191056.46	1000.71242	(15122617)

651134.33	4191056.46	788.11061	(14010519)	651184.33	4191056.46	638.16682	(14010519)
651234.33	4191056.46	540.96234	(15122424)	651284.33	4191056.46	464.22728	(14021603)
651334.33	4191056.46	404.69552	(14021603)	650334.33	4191106.46	472.94181	(17122608)
650384.33	4191106.46	554.72795	(17122608)	650434.33	4191106.46	644.69055	(17123105)
650484.33	4191106.46	790.84070	(17011201)	650534.33	4191106.46	950.43539	(17120707)
650584.33	4191106.46	1167.26889	(17020404)	650634.33	4191106.46	1376.48911	(17122609)
650684.33	4191106.46	1412.79601	(17120208)	650734.33	4191106.46	1930.05117	(17122909)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	2620.36861	(17120619)	650834.33	4191106.46	2996.60652	(17122408)
650884.33	4191106.46	2521.15172	(17022508)	650934.33	4191106.46	2143.44824	(17122321)
650984.33	4191106.46	1599.01404	(17123020)	651034.33	4191106.46	1156.95042	(17120617)
651084.33	4191106.46	910.69142	(13020908)	651134.33	4191106.46	742.24284	(14011317)
651184.33	4191106.46	628.24580	(15010317)	651234.33	4191106.46	524.62349	(13020204)
651284.33	4191106.46	457.01083	(15122617)	651334.33	4191106.46	391.45044	(13032807)
650334.33	4191156.46	494.38148	(17011201)	650384.33	4191156.46	561.92615	(17120707)
650434.33	4191156.46	651.14780	(17121007)	650484.33	4191156.46	750.03251	(17020404)
650534.33	4191156.46	805.78969	(17122609)	650584.33	4191156.46	830.24184	(17043004)
650634.33	4191156.46	918.90145	(17123024)	650684.33	4191156.46	1171.16540	(17122909)
650734.33	4191156.46	1412.62709	(17122724)	650784.33	4191156.46	1598.88462	(17120705)
650834.33	4191156.46	1966.92487	(17122408)	650884.33	4191156.46	1759.73612	(17121401)
650934.33	4191156.46	1592.11490	(17021405)	650984.33	4191156.46	1320.50473	(17122321)
651034.33	4191156.46	1048.20439	(17022407)	651084.33	4191156.46	885.80040	(17121119)
651134.33	4191156.46	687.65443	(17120617)	651184.33	4191156.46	578.89222	(14022307)
651234.33	4191156.46	497.75057	(14011317)	651284.33	4191156.46	431.53263	(14010220)
651334.33	4191156.46	385.88608	(15010317)	650334.33	4191206.46	476.55078	(17121007)
650384.33	4191206.46	531.48614	(17020404)	650434.33	4191206.46	557.59649	(17120905)
650484.33	4191206.46	592.96606	(17043004)	650534.33	4191206.46	589.18461	(17121808)
650584.33	4191206.46	686.26726	(17121324)	650634.33	4191206.46	801.13949	(17122909)
650684.33	4191206.46	899.77562	(16120505)	650734.33	4191206.46	1161.37366	(17120619)
650784.33	4191206.46	1253.76695	(17012717)	650834.33	4191206.46	1409.67432	(17122408)
650884.33	4191206.46	1322.80774	(17120207)	650934.33	4191206.46	1126.06773	(17122223)
650984.33	4191206.46	1042.88980	(17022706)	651034.33	4191206.46	911.00886	(17122321)
651084.33	4191206.46	791.44772	(17022407)	651134.33	4191206.46	675.60229	(17123020)
651184.33	4191206.46	559.81838	(17121119)	651234.33	4191206.46	469.07179	(17120617)
651284.33	4191206.46	411.10574	(14022307)	651334.33	4191206.46	364.38109	(13020908)
650334.33	4191256.46	416.67834	(17120905)	650384.33	4191256.46	442.89141	(17043004)
650434.33	4191256.46	421.75333	(17120624)	650484.33	4191256.46	456.45429	(17120208)
650534.33	4191256.46	531.96435	(17121324)	650584.33	4191256.46	593.88194	(17020406)
650634.33	4191256.46	675.33161	(17123104)	650684.33	4191256.46	778.58764	(17022607)
650734.33	4191256.46	914.38967	(17120219)	650784.33	4191256.46	969.82347	(17012717)

650834.33	4191256.46	1074.19026	(17122408)	650884.33	4191256.46	1022.98700	(17120207)
650934.33	4191256.46	970.24423	(17022508)	650984.33	4191256.46	878.75328	(17021405)
651034.33	4191256.46	793.07015	(17012601)	651084.33	4191256.46	675.63609	(17122321)
651134.33	4191256.46	616.28236	(17022407)	651184.33	4191256.46	519.76113	(17123020)
651234.33	4191256.46	472.32386	(17121119)	651284.33	4191256.46	385.03619	(14012706)
651334.33	4191256.46	346.82666	(17120617)	650334.33	4191306.46	339.77093	(17043004)
650384.33	4191306.46	344.41861	(17121808)	650434.33	4191306.46	364.69476	(15022507)
650484.33	4191306.46	425.00369	(17121324)	650534.33	4191306.46	466.22928	(17020406)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***

INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	537.12886	(17020506)	650634.33	4191306.46	581.46693	(17122724)
650684.33	4191306.46	691.00221	(17022607)	650734.33	4191306.46	674.89613	(17120705)
650784.33	4191306.46	764.54770	(17020802)	650834.33	4191306.46	854.69241	(17122408)
650884.33	4191306.46	772.61674	(17012905)	650934.33	4191306.46	743.07582	(17022508)
650984.33	4191306.46	676.04432	(17121904)	651034.33	4191306.46	655.52806	(17021405)
651084.33	4191306.46	609.71012	(17012601)	651134.33	4191306.46	528.55509	(17022408)
651184.33	4191306.46	493.69719	(17022407)	651234.33	4191306.46	397.99873	(17123020)
651284.33	4191306.46	394.13081	(17123020)	651334.33	4191306.46	350.01113	(17121119)
650334.33	4191356.46	285.71662	(17120208)	650384.33	4191356.46	304.17226	(15022507)
650434.33	4191356.46	348.08211	(17121324)	650484.33	4191356.46	379.15183	(17020406)
650534.33	4191356.46	435.76231	(17020506)	650584.33	4191356.46	441.39485	(16020808)
650634.33	4191356.46	527.92743	(17022607)	650684.33	4191356.46	602.32610	(17120219)
650734.33	4191356.46	572.29164	(17012717)	650784.33	4191356.46	651.15327	(17020802)
650834.33	4191356.46	701.94290	(17122408)	650884.33	4191356.46	605.17622	(17012905)
650934.33	4191356.46	630.99906	(17121401)	650984.33	4191356.46	613.08956	(17022508)
651034.33	4191356.46	562.79665	(17021405)	651084.33	4191356.46	518.96266	(17022706)
651134.33	4191356.46	476.96899	(17012601)	651184.33	4191356.46	430.35660	(17022408)
651234.33	4191356.46	405.01144	(17022407)	651284.33	4191356.46	348.39503	(17022407)
651334.33	4191356.46	333.19737	(17123020)	650334.33	4191406.46	265.12542	(17123024)
650384.33	4191406.46	290.95585	(17123024)	650434.33	4191406.46	316.56760	(17020406)
650484.33	4191406.46	362.79331	(17122909)	650534.33	4191406.46	361.42730	(16120505)
650584.33	4191406.46	407.90859	(17122724)	650634.33	4191406.46	475.16782	(17022607)
650684.33	4191406.46	477.32832	(17120219)	650734.33	4191406.46	518.09273	(17012717)
650784.33	4191406.46	554.01313	(17120618)	650834.33	4191406.46	590.56277	(17122408)
650884.33	4191406.46	491.62157	(13121321)	650934.33	4191406.46	541.26532	(17120207)
650984.33	4191406.46	534.53125	(17022508)	651034.33	4191406.46	464.61449	(17121904)
651084.33	4191406.46	474.09578	(17021405)	651134.33	4191406.46	427.12579	(17012601)
651184.33	4191406.46	397.06576	(17122321)	651234.33	4191406.46	359.62126	(17022408)
651284.33	4191406.46	338.83974	(17022407)	651334.33	4191406.46	308.01997	(17022407)
650334.33	4191456.46	247.84325	(17123024)	650384.33	4191456.46	269.76100	(17020406)
650434.33	4191456.46	307.56610	(17122909)	650484.33	4191456.46	308.07400	(16022108)

650534.33	4191456.46	337.01294	(17122724)	650584.33	4191456.46	388.05724	(17022607)
650634.33	4191456.46	428.94730	(17120219)	650684.33	4191456.46	395.79978	(17120705)
650734.33	4191456.46	457.02418	(17012717)	650784.33	4191456.46	479.62121	(17120618)
650834.33	4191456.46	506.34363	(17122408)	650884.33	4191456.46	431.35649	(17021222)
650934.33	4191456.46	482.68731	(17120207)	650984.33	4191456.46	436.27342	(17022508)
651034.33	4191456.46	423.64983	(17022508)	651084.33	4191456.46	404.17157	(17121904)
651134.33	4191456.46	376.94881	(17021405)	651184.33	4191456.46	370.12421	(17012601)
651234.33	4191456.46	341.40385	(17122321)	651284.33	4191456.46	306.63352	(17022408)
651334.33	4191456.46	288.12598	(17022407)	650334.33	4191506.46	233.95693	(17123021)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL4 ***
INCLUDING SOURCE(S): VOL4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	264.31943	(17122909)	650434.33	4191506.46	270.28947	(17123104)
650484.33	4191506.46	276.68669	(16020808)	650534.33	4191506.46	300.85491	(17122724)
650584.33	4191506.46	353.63166	(17022607)	650634.33	4191506.46	371.11126	(17120219)
650684.33	4191506.46	345.83387	(15021408)	650734.33	4191506.46	397.47516	(17012717)
650784.33	4191506.46	417.35626	(17120618)	650834.33	4191506.46	440.79008	(17122408)
650884.33	4191506.46	381.21341	(17021222)	650934.33	4191506.46	418.44844	(17120207)
650984.33	4191506.46	392.94774	(17121401)	651034.33	4191506.46	396.29060	(17022508)
651084.33	4191506.46	345.32660	(17121904)	651134.33	4191506.46	357.01134	(17021405)
651184.33	4191506.46	324.98735	(17022706)	651234.33	4191506.46	318.98935	(17012601)
651284.33	4191506.46	296.69419	(17122321)	651334.33	4191506.46	265.69558	(17022408)
650334.33	4191556.46	229.84002	(17122909)	650384.33	4191556.46	239.06639	(17020506)
650434.33	4191556.46	238.08694	(16120505)	650484.33	4191556.46	265.09985	(17122724)
650534.33	4191556.46	301.08140	(17022607)	650584.33	4191556.46	324.40255	(17120619)
650634.33	4191556.46	300.75912	(17020407)	650684.33	4191556.46	318.80491	(17012717)
650734.33	4191556.46	343.39080	(17012717)	650784.33	4191556.46	365.35156	(17120618)
650834.33	4191556.46	388.54638	(17122408)	650884.33	4191556.46	342.25329	(17012720)
650934.33	4191556.46	357.03378	(17120207)	650984.33	4191556.46	346.26917	(17121401)
651034.33	4191556.46	349.17885	(17022508)	651084.33	4191556.46	311.24467	(17022508)
651134.33	4191556.46	311.90982	(17121904)	651184.33	4191556.46	304.73545	(17021405)
651234.33	4191556.46	281.00574	(17022706)	651284.33	4191556.46	274.97226	(17012601)
651334.33	4191556.46	260.36765	(17122321)	650934.45	4191196.80	1225.11971	(17121904)
650934.45	4191240.55	1030.22008	(17022508)	651071.58	4191520.04	336.27497	(17122223)
650517.18	4191503.06	303.83483	(17122724)	650941.63	4190991.11	2826.42340	(17122621)
650974.28	4190903.61	2120.83655	(17011509)	650989.95	4190868.34	1620.36515	(17122320)
651153.79	4190886.56	676.37157	(17020824)	651170.44	4190902.10	637.22940	(17011303)
651162.67	4190888.23	643.13283	(17020824)	651241.49	4191031.43	551.86242	(14022208)
650569.32	4190797.20	848.06168	(13010908)	650392.81	4190782.21	533.64654	(17013106)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	269.79975	(16020321)	650384.33	4190556.46	285.17772	(16010309)
650434.33	4190556.46	287.43814	(15122802)	650484.33	4190556.46	323.51487	(13012423)
650534.33	4190556.46	338.88283	(13123108)	650584.33	4190556.46	352.43250	(15022608)
650634.33	4190556.46	386.72592	(17123007)	650684.33	4190556.46	385.54891	(14021105)
650734.33	4190556.46	406.23186	(17011302)	650784.33	4190556.46	455.83215	(17011609)
650834.33	4190556.46	425.15203	(17122820)	650884.33	4190556.46	504.13478	(17123009)
650934.33	4190556.46	423.79009	(17120822)	650984.33	4190556.46	437.01131	(17122917)
651034.33	4190556.46	438.01939	(17012520)	651084.33	4190556.46	422.10614	(17012804)
651134.33	4190556.46	389.78396	(17012903)	651184.33	4190556.46	380.03416	(17020801)
651234.33	4190556.46	326.71520	(17020801)	651284.33	4190556.46	320.34493	(17120120)
651334.33	4190556.46	285.28649	(17011508)	650334.33	4190606.46	288.54703	(13013108)
650384.33	4190606.46	306.98065	(16020321)	650434.33	4190606.46	323.62910	(16010309)
650484.33	4190606.46	341.29675	(15010507)	650534.33	4190606.46	372.96828	(14021122)
650584.33	4190606.46	390.16031	(13020306)	650634.33	4190606.46	424.98263	(17123007)
650684.33	4190606.46	436.19587	(17122918)	650734.33	4190606.46	450.22831	(14120620)
650784.33	4190606.46	500.59224	(17011609)	650834.33	4190606.46	485.01301	(17122820)
650884.33	4190606.46	569.37781	(17123009)	650934.33	4190606.46	499.82133	(17122917)
650984.33	4190606.46	484.82776	(17013024)	651034.33	4190606.46	478.06684	(17012520)
651084.33	4190606.46	475.27530	(17122620)	651134.33	4190606.46	432.60639	(17012903)
651184.33	4190606.46	414.01595	(17020801)	651234.33	4190606.46	377.81997	(17120120)
651284.33	4190606.46	335.63355	(17011508)	651334.33	4190606.46	328.82055	(17012908)
650334.33	4190656.46	306.66420	(13010906)	650384.33	4190656.46	330.08797	(15010508)
650434.33	4190656.46	353.76527	(16020321)	650484.33	4190656.46	376.89481	(15122802)
650534.33	4190656.46	408.50200	(15010507)	650584.33	4190656.46	438.67045	(13123108)
650634.33	4190656.46	460.22992	(15022608)	650684.33	4190656.46	506.64393	(17122918)
650734.33	4190656.46	511.24668	(16012703)	650784.33	4190656.46	543.69968	(17011609)
650834.33	4190656.46	557.70152	(17122820)	650884.33	4190656.46	650.40007	(17123009)
650934.33	4190656.46	592.72327	(17122917)	650984.33	4190656.46	573.36059	(17013024)
651034.33	4190656.46	552.15755	(17012804)	651084.33	4190656.46	518.60125	(17122920)
651134.33	4190656.46	496.94215	(17020801)	651184.33	4190656.46	436.76881	(17120120)
651234.33	4190656.46	395.34175	(17011508)	651284.33	4190656.46	380.20640	(17012908)
651334.33	4190656.46	321.97328	(17120121)	650334.33	4190706.46	327.07611	(13010908)
650384.33	4190706.46	354.21666	(13010906)	650434.33	4190706.46	383.69915	(15010508)
650484.33	4190706.46	414.04871	(16020321)	650534.33	4190706.46	445.37308	(15122802)
650584.33	4190706.46	488.48189	(13012423)	650634.33	4190706.46	518.01717	(13020306)
650684.33	4190706.46	576.57137	(17123007)	650734.33	4190706.46	585.22845	(14021105)
650784.33	4190706.46	618.17243	(14012501)	650834.33	4190706.46	668.93307	(17011609)
650884.33	4190706.46	753.11561	(17123009)	650934.33	4190706.46	703.80065	(17122917)
650984.33	4190706.46	658.26973	(17012520)	651034.33	4190706.46	638.45488	(17122620)
651084.33	4190706.46	577.17307	(17012903)	651134.33	4190706.46	519.28118	(17020801)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	463.73659	(17011508)	651234.33	4190706.46	445.22231	(17012908)
651284.33	4190706.46	376.56242	(17120121)	651334.33	4190706.46	343.82918	(17122320)
650334.33	4190756.46	342.76021	(17123107)	650384.33	4190756.46	378.28155	(13012105)
650434.33	4190756.46	414.47947	(14120608)	650484.33	4190756.46	453.36692	(15010508)
650534.33	4190756.46	496.16095	(15021803)	650584.33	4190756.46	531.48824	(15122802)
650634.33	4190756.46	594.51720	(14021122)	650684.33	4190756.46	638.46773	(15022608)
650734.33	4190756.46	705.98065	(17122918)	650784.33	4190756.46	734.52828	(15012509)
650834.33	4190756.46	814.12231	(17011609)	650884.33	4190756.46	886.57517	(17123009)
650934.33	4190756.46	832.29703	(17122917)	650984.33	4190756.46	770.35476	(17012520)
651034.33	4190756.46	734.59745	(17122920)	651084.33	4190756.46	681.45341	(17020801)
651134.33	4190756.46	590.82777	(17120120)	651184.33	4190756.46	528.87054	(17012908)
651234.33	4190756.46	449.08714	(17120121)	651284.33	4190756.46	419.52652	(17122320)
651334.33	4190756.46	405.31953	(17122320)	650334.33	4190806.46	391.90326	(17120517)
650384.33	4190806.46	401.13324	(15010907)	650434.33	4190806.46	442.28348	(13012105)
650484.33	4190806.46	493.61735	(14120608)	650534.33	4190806.46	547.23986	(14021223)
650584.33	4190806.46	609.95666	(15021803)	650634.33	4190806.46	657.03250	(15010507)
650684.33	4190806.46	747.20048	(13123108)	650734.33	4190806.46	843.60587	(17123007)
650784.33	4190806.46	859.72640	(16012703)	650834.33	4190806.46	1002.28974	(17011609)
650884.33	4190806.46	1065.17285	(17123009)	650934.33	4190806.46	969.37665	(17122917)
650984.33	4190806.46	927.05697	(17012804)	651034.33	4190806.46	829.21253	(17012903)
651084.33	4190806.46	739.45314	(17120120)	651134.33	4190806.46	638.03629	(17012908)
651184.33	4190806.46	549.16514	(17120121)	651234.33	4190806.46	521.42742	(17122320)
651284.33	4190806.46	479.95318	(17121219)	651334.33	4190806.46	445.64662	(17011509)
650334.33	4190856.46	408.27530	(17013106)	650384.33	4190856.46	456.32838	(17121504)
650434.33	4190856.46	508.03770	(17120517)	650484.33	4190856.46	530.75605	(17123107)
650534.33	4190856.46	605.24669	(13010908)	650584.33	4190856.46	683.33811	(14021223)
650634.33	4190856.46	781.40512	(16010309)	650684.33	4190856.46	876.61360	(15010507)
650734.33	4190856.46	974.09711	(15022608)	650784.33	4190856.46	1060.13519	(14021105)
650834.33	4190856.46	1243.26440	(17011609)	650884.33	4190856.46	1312.74763	(17123009)
650934.33	4190856.46	1195.64271	(17013024)	650984.33	4190856.46	1137.57785	(17122920)
651034.33	4190856.46	993.55359	(17020801)	651084.33	4190856.46	820.88024	(17011508)
651134.33	4190856.46	694.25626	(17120121)	651184.33	4190856.46	661.84344	(17122320)
651234.33	4190856.46	591.82259	(17121219)	651284.33	4190856.46	577.40020	(17011509)
651334.33	4190856.46	513.20411	(17011509)	650334.33	4190906.46	435.59373	(17021308)
650384.33	4190906.46	480.90074	(17120203)	650434.33	4190906.46	536.72925	(17013106)
650484.33	4190906.46	614.63545	(17121504)	650534.33	4190906.46	682.25895	(17120517)
650584.33	4190906.46	766.22767	(13012105)	650634.33	4190906.46	886.55552	(13021704)
650684.33	4190906.46	1050.67421	(16010309)	650734.33	4190906.46	1197.77791	(14021122)
650784.33	4190906.46	1392.92037	(17123007)	650834.33	4190906.46	1532.90690	(17011609)
650884.33	4190906.46	1670.06085	(17123009)	650934.33	4190906.46	1543.07242	(17122701)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***

INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	1347.59678	(17012903)	651034.33	4190906.46	1117.38209	(17011508)
651084.33	4190906.46	919.11564	(17120121)	651134.33	4190906.46	858.91029	(17122320)
651184.33	4190906.46	757.46786	(17011509)	651234.33	4190906.46	716.23703	(17011509)
651284.33	4190906.46	540.35928	(17011509)	651334.33	4190906.46	404.62264	(17122619)
650334.33	4190956.46	446.28639	(17123023)	650384.33	4190956.46	497.59870	(17021308)
650434.33	4190956.46	589.56682	(17021308)	650484.33	4190956.46	653.11579	(17120203)
650534.33	4190956.46	755.71420	(17123002)	650584.33	4190956.46	892.25635	(17121504)
650634.33	4190956.46	1003.83381	(17123107)	650684.33	4190956.46	1226.75989	(13010906)
650734.33	4190956.46	1507.94512	(16010309)	650784.33	4190956.46	1754.64780	(15022608)
650834.33	4190956.46	2067.72345	(15012509)	650884.33	4190956.46	2204.74749	(17123009)
650934.33	4190956.46	2054.17857	(17012804)	650984.33	4190956.46	1704.30897	(17120120)
651034.33	4190956.46	1309.55329	(17012908)	651084.33	4190956.46	1145.01106	(17121219)
651134.33	4190956.46	1071.75356	(17011509)	651184.33	4190956.46	804.26367	(17011509)
651234.33	4190956.46	568.45102	(17122619)	651284.33	4190956.46	469.59825	(17020824)
651334.33	4190956.46	413.99071	(17020824)	650334.33	4191006.46	458.88563	(17013105)
650384.33	4191006.46	518.21991	(17013105)	650434.33	4191006.46	591.04507	(17012823)
650484.33	4191006.46	683.46029	(17121207)	650534.33	4191006.46	808.44343	(17123023)
650584.33	4191006.46	1002.28618	(17021308)	650634.33	4191006.46	1197.96888	(17021420)
650684.33	4191006.46	1508.50806	(17120517)	650734.33	4191006.46	1837.52043	(14120608)
650784.33	4191006.46	2367.65940	(15122802)	650834.33	4191006.46	2912.62212	(17122918)
650884.33	4191006.46	3185.16203	(15011509)	650934.33	4191006.46	2814.11882	(17020801)
650984.33	4191006.46	2071.33652	(17012908)	651034.33	4191006.46	1729.84539	(17011509)
651084.33	4191006.46	1360.99343	(17011509)	651134.33	4191006.46	877.95390	(17122619)
651184.33	4191006.46	706.30715	(17020824)	651234.33	4191006.46	570.66243	(17011303)
651284.33	4191006.46	484.96488	(17011303)	651334.33	4191006.46	428.59092	(17121319)
650334.33	4191056.46	465.16799	(17121807)	650384.33	4191056.46	523.08760	(17121807)
650434.33	4191056.46	604.24595	(17022506)	650484.33	4191056.46	717.74783	(17022506)
650534.33	4191056.46	846.00535	(17022506)	650584.33	4191056.46	1036.89315	(17013105)
650634.33	4191056.46	1289.99577	(17012823)	650684.33	4191056.46	1691.56479	(17123023)
650734.33	4191056.46	2308.87303	(17120203)	650784.33	4191056.46	3162.57886	(17123107)
650834.33	4191056.46	4420.17537	(13020205)	650884.33	4191056.46	4922.47690	(14122319)
650934.33	4191056.46	3793.05446	(17012908)	650984.33	4191056.46	2909.37450	(17011509)
651034.33	4191056.46	1655.35806	(17020824)	651084.33	4191056.46	1186.59987	(17011303)
651134.33	4191056.46	925.10002	(17121319)	651184.33	4191056.46	728.87478	(17010504)
651234.33	4191056.46	617.75517	(17122519)	651284.33	4191056.46	530.60289	(17122519)
651334.33	4191056.46	454.61013	(17122519)	650334.33	4191106.46	476.07557	(17011505)
650384.33	4191106.46	540.37900	(17011505)	650434.33	4191106.46	620.99722	(17011505)
650484.33	4191106.46	724.38033	(17011505)	650534.33	4191106.46	860.60792	(17011505)
650584.33	4191106.46	1046.36488	(17013008)	650634.33	4191106.46	1335.76112	(17013008)
650684.33	4191106.46	1776.74110	(17013008)	650734.33	4191106.46	2482.56074	(17013008)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650784.33	4191106.46	3791.78886 (17121807)	650834.33	4191106.46	6279.56353 (14110308)
650884.33	4191106.46	14308.06862 (16010811)	650934.33	4191106.46	4853.49987 (17122519)
650984.33	4191106.46	2775.36258 (17122719)	651034.33	4191106.46	1756.71761 (17122621)
651084.33	4191106.46	1247.96911 (17122621)	651134.33	4191106.46	942.39180 (17122621)
651184.33	4191106.46	743.33608 (17122621)	651234.33	4191106.46	605.49926 (17122621)
651284.33	4191106.46	505.49980 (17122621)	651334.33	4191106.46	431.02550 (16010203)
650334.33	4191156.46	475.12055 (17122903)	650384.33	4191156.46	543.87795 (17122903)
650434.33	4191156.46	626.85452 (17122903)	650484.33	4191156.46	726.91572 (17122903)
650534.33	4191156.46	874.23859 (17121322)	650584.33	4191156.46	1062.04022 (17121322)
650634.33	4191156.46	1317.49894 (17120702)	650684.33	4191156.46	1644.11837 (17122608)
650734.33	4191156.46	2381.11067 (17011201)	650784.33	4191156.46	3588.35710 (17020404)
650834.33	4191156.46	5352.81068 (17120209)	650884.33	4191156.46	6300.08682 (16102908)
650934.33	4191156.46	4319.40863 (17121119)	650984.33	4191156.46	2631.49113 (14010220)
651034.33	4191156.46	1767.74833 (15122617)	651084.33	4191156.46	1260.05518 (14010519)
651134.33	4191156.46	957.41320 (15122424)	651184.33	4191156.46	767.20469 (14021603)
651234.33	4191156.46	628.73583 (14021603)	651284.33	4191156.46	532.14315 (14022208)
651334.33	4191156.46	466.19869 (14022208)	650334.33	4191206.46	461.07125 (17120702)
650384.33	4191206.46	509.45739 (17120702)	650434.33	4191206.46	549.71242 (17120702)
650484.33	4191206.46	667.39664 (17122608)	650534.33	4191206.46	801.21843 (17123105)
650584.33	4191206.46	1007.05809 (17011201)	650634.33	4191206.46	1252.62551 (17122805)
650684.33	4191206.46	1590.93542 (17020404)	650734.33	4191206.46	1801.35858 (17122609)
650784.33	4191206.46	2290.60789 (17123021)	650834.33	4191206.46	3276.13073 (17120219)
650884.33	4191206.46	3371.31049 (17010609)	650934.33	4191206.46	2952.33374 (17022706)
650984.33	4191206.46	2223.20799 (17022407)	651034.33	4191206.46	1519.30561 (14012706)
651084.33	4191206.46	1153.56000 (13020908)	651134.33	4191206.46	898.90492 (13121420)
651184.33	4191206.46	742.49536 (15010317)	651234.33	4191206.46	616.44209 (15122617)
651284.33	4191206.46	512.32309 (13032807)	651334.33	4191206.46	445.17165 (14010519)
650334.33	4191256.46	434.45952 (17123105)	650384.33	4191256.46	489.47741 (17011201)
650434.33	4191256.46	585.86415 (17011201)	650484.33	4191256.46	678.50906 (17120707)
650534.33	4191256.46	799.87313 (17121007)	650584.33	4191256.46	920.58274 (17020404)
650634.33	4191256.46	1014.05792 (17122609)	650684.33	4191256.46	1037.78465 (17120208)
650734.33	4191256.46	1318.40455 (17123021)	650784.33	4191256.46	1651.56350 (17122724)
650834.33	4191256.46	1917.65827 (17012717)	650884.33	4191256.46	2221.25532 (17012720)
650934.33	4191256.46	1996.74452 (17022508)	650984.33	4191256.46	1731.40657 (17012601)
651034.33	4191256.46	1387.61093 (17022407)	651084.33	4191256.46	1090.67013 (17121119)
651134.33	4191256.46	828.74361 (17120617)	651184.33	4191256.46	681.29609 (14022307)
651234.33	4191256.46	579.01821 (14011317)	651284.33	4191256.46	490.19688 (13121420)
651334.33	4191256.46	437.27826 (15010317)	650334.33	4191306.46	440.27196 (17120707)
650384.33	4191306.46	496.71794 (17121007)	650434.33	4191306.46	561.26007 (17020404)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	648.32718	(17120624)	650634.33	4191306.46	719.58244	(15022507)
650684.33	4191306.46	883.34431	(17123021)	650734.33	4191306.46	1017.51226	(16022108)
650784.33	4191306.46	1325.90328	(17120619)	650834.33	4191306.46	1443.33623	(17012717)
650884.33	4191306.46	1566.01897	(17012720)	650934.33	4191306.46	1414.69073	(17121401)
650984.33	4191306.46	1317.77000	(17021405)	651034.33	4191306.46	1106.09279	(17122321)
651084.33	4191306.46	951.08392	(17022407)	651134.33	4191306.46	790.43132	(17123020)
651184.33	4191306.46	665.66120	(17121119)	651234.33	4191306.46	540.14943	(17120617)
651284.33	4191306.46	466.99112	(14022307)	651334.33	4191306.46	408.41806	(13020908)
650334.33	4191356.46	426.70803	(17020404)	650384.33	4191356.46	449.20666	(17020404)
650434.33	4191356.46	470.49762	(17043004)	650484.33	4191356.46	489.12563	(17043004)
650534.33	4191356.46	492.98635	(17121808)	650584.33	4191356.46	561.11176	(17121324)
650634.33	4191356.46	646.49321	(17123021)	650684.33	4191356.46	756.90558	(17020506)
650734.33	4191356.46	852.69045	(17022607)	650784.33	4191356.46	1005.08425	(17120219)
650834.33	4191356.46	1062.02767	(17020802)	650884.33	4191356.46	1173.30763	(17012720)
650934.33	4191356.46	1090.47172	(17120207)	650984.33	4191356.46	963.63619	(17022508)
651034.33	4191356.46	893.36087	(17022706)	651084.33	4191356.46	817.54229	(17122321)
651134.33	4191356.46	698.11482	(17022407)	651184.33	4191356.46	568.83712	(17123020)
651234.33	4191356.46	535.97661	(17121119)	651284.33	4191356.46	441.71573	(17121119)
651334.33	4191356.46	388.42501	(17120617)	650334.33	4191406.46	363.43771	(17120905)
650384.33	4191406.46	382.82987	(17043004)	650434.33	4191406.46	367.87111	(17120624)
650484.33	4191406.46	393.74672	(17120208)	650534.33	4191406.46	451.89069	(17121324)
650584.33	4191406.46	500.81464	(17123021)	650634.33	4191406.46	585.05017	(17020506)
650684.33	4191406.46	628.32775	(17122724)	650734.33	4191406.46	754.92658	(17022607)
650784.33	4191406.46	730.98886	(15021408)	650834.33	4191406.46	868.67795	(17020802)
650884.33	4191406.46	919.97101	(17012720)	650934.33	4191406.46	892.99880	(17120207)
650984.33	4191406.46	844.05601	(17022508)	651034.33	4191406.46	750.28535	(17021405)
651084.33	4191406.46	679.27266	(17012601)	651134.33	4191406.46	631.34906	(17122321)
651184.33	4191406.46	537.92775	(17022407)	651234.33	4191406.46	477.50028	(17022407)
651284.33	4191406.46	442.38954	(17123020)	651334.33	4191406.46	393.33053	(17121119)
650334.33	4191456.46	292.15248	(17043004)	650384.33	4191456.46	304.64718	(17121808)
650434.33	4191456.46	320.53618	(15022507)	650484.33	4191456.46	371.43512	(17121324)
650534.33	4191456.46	403.57386	(17123021)	650584.33	4191456.46	467.49868	(17122909)
650634.33	4191456.46	471.79736	(16120505)	650684.33	4191456.46	566.27557	(17022607)
650734.33	4191456.46	650.20511	(17120219)	650784.33	4191456.46	640.00718	(17012717)
650834.33	4191456.46	714.74329	(17120618)	650884.33	4191456.46	746.19676	(17012720)
650934.33	4191456.46	702.01495	(17120207)	650984.33	4191456.46	656.98445	(17022508)
651034.33	4191456.46	599.05234	(17122223)	651084.33	4191456.46	604.34140	(17021405)
651134.33	4191456.46	556.09735	(17012601)	651184.33	4191456.46	504.71922	(17122321)

651234.33	4191456.46	429.51353	(17022407)	651284.33	4191456.46	406.71160	(17022407)
651334.33	4191456.46	360.81069	(17123020)	650334.33	4191506.46	256.86830	(17120208)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL5 ***
INCLUDING SOURCE(S): VOL5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	271.87622	(15022507)	650434.33	4191506.46	310.86805	(17121324)
650484.33	4191506.46	334.76019	(17123021)	650534.33	4191506.46	384.44407	(17122909)
650584.33	4191506.46	385.28119	(15022501)	650634.33	4191506.46	435.99534	(17122724)
650684.33	4191506.46	508.27212	(17022607)	650734.33	4191506.46	502.88185	(17120219)
650784.33	4191506.46	563.95422	(17012717)	650834.33	4191506.46	599.17813	(17120618)
650884.33	4191506.46	621.12258	(17012720)	650934.33	4191506.46	560.44342	(17012905)
650984.33	4191506.46	566.90270	(17121401)	651034.33	4191506.46	556.33341	(17022508)
651084.33	4191506.46	507.66194	(17121904)	651134.33	4191506.46	466.92581	(17022706)
651184.33	4191506.46	454.13735	(17012601)	651234.33	4191506.46	414.54271	(17122321)
651284.33	4191506.46	357.64233	(17120205)	651334.33	4191506.46	349.07641	(17022407)
650334.33	4191556.46	237.48845	(17123024)	650384.33	4191556.46	264.24372	(17121324)
650434.33	4191556.46	283.88595	(17123021)	650484.33	4191556.46	322.19953	(17122909)
650534.33	4191556.46	329.91040	(17123104)	650584.33	4191556.46	354.30071	(17122724)
650634.33	4191556.46	410.64773	(17022607)	650684.33	4191556.46	456.73913	(17120219)
650734.33	4191556.46	416.70793	(17120705)	650784.33	4191556.46	486.27181	(17012717)
650834.33	4191556.46	507.27904	(17120618)	650884.33	4191556.46	527.62212	(17012720)
650934.33	4191556.46	454.85073	(17012905)	650984.33	4191556.46	483.75079	(17120207)
651034.33	4191556.46	485.91330	(17022508)	651084.33	4191556.46	421.08321	(17122223)
651134.33	4191556.46	435.76677	(17021405)	651184.33	4191556.46	393.57015	(17022706)
651234.33	4191556.46	373.33704	(17012601)	651284.33	4191556.46	347.85321	(17122321)
651334.33	4191556.46	305.23981	(17120205)	650934.45	4191196.80	3279.54197	(17012601)
650934.45	4191240.55	2191.68987	(17121904)	651071.58	4191520.04	475.57762	(17121904)
650517.18	4191503.06	366.13908	(17122909)	650941.63	4190991.11	2454.20314	(17020801)
650974.28	4190903.61	1381.09873	(17012903)	650989.95	4190868.34	1141.85553	(17122920)
651153.79	4190886.56	772.93815	(17122320)	651170.44	4190902.10	764.60383	(17121219)
651162.67	4190888.23	755.18544	(17122320)	651241.49	4191031.43	583.79193	(17121319)
650569.32	4190797.20	577.67574	(16020321)	650392.81	4190782.21	391.78269	(13012121)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***
INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	311.15222	(13010906)	650384.33	4190556.46	333.90384	(15010508)
650434.33	4190556.46	358.98726	(16020321)	650484.33	4190556.46	384.64903	(16010309)
650534.33	4190556.46	411.47192	(15010507)	650584.33	4190556.46	444.58093	(13123108)
650634.33	4190556.46	472.25207	(15022608)	650684.33	4190556.46	516.67649	(17123007)
650734.33	4190556.46	524.68952	(16012703)	650784.33	4190556.46	551.66467	(17011609)
650834.33	4190556.46	576.68038	(17011609)	650884.33	4190556.46	668.97347	(17123009)
650934.33	4190556.46	613.44904	(17122917)	650984.33	4190556.46	590.92711	(17013024)
651034.33	4190556.46	570.50026	(17012804)	651084.33	4190556.46	523.83820	(17012903)
651134.33	4190556.46	509.85496	(17020801)	651184.33	4190556.46	450.88145	(17120120)
651234.33	4190556.46	399.87737	(17011508)	651284.33	4190556.46	386.30666	(17012908)
651334.33	4190556.46	317.35329	(17120121)	650334.33	4190606.46	330.18473	(13010908)
650384.33	4190606.46	359.12397	(14120608)	650434.33	4190606.46	388.31753	(14021223)
650484.33	4190606.46	421.82731	(16020321)	650534.33	4190606.46	454.00057	(15122802)
650584.33	4190606.46	498.52389	(15010507)	650634.33	4190606.46	531.99981	(13123108)
650684.33	4190606.46	583.98251	(17123007)	650734.33	4190606.46	602.24819	(14021105)
650784.33	4190606.46	635.71886	(15010901)	650834.33	4190606.46	695.05332	(17011609)
650884.33	4190606.46	776.98306	(17123009)	650934.33	4190606.46	728.22171	(17122917)
650984.33	4190606.46	682.99561	(17012520)	651034.33	4190606.46	659.90320	(17122620)
651084.33	4190606.46	582.10395	(17012903)	651134.33	4190606.46	515.98383	(17120120)
651184.33	4190606.46	478.87738	(17011508)	651234.33	4190606.46	456.53932	(17012908)
651284.33	4190606.46	370.91892	(17120121)	651334.33	4190606.46	365.94117	(17122320)
650334.33	4190656.46	344.79207	(15010907)	650384.33	4190656.46	382.62634	(13012105)
650434.33	4190656.46	419.80636	(14120608)	650484.33	4190656.46	460.61946	(14021223)
650534.33	4190656.46	505.99552	(16020321)	650584.33	4190656.46	550.54916	(15122802)
650634.33	4190656.46	609.60392	(13012423)	650684.33	4190656.46	655.71203	(15022608)
650734.33	4190656.46	733.08049	(17122918)	650784.33	4190656.46	759.43563	(15012509)
650834.33	4190656.46	847.96250	(17011609)	650884.33	4190656.46	918.09189	(17123009)
650934.33	4190656.46	859.55715	(17122917)	650984.33	4190656.46	787.10541	(17012520)
651034.33	4190656.46	744.97798	(17122920)	651084.33	4190656.46	693.40278	(17020801)
651134.33	4190656.46	592.04363	(17120120)	651184.33	4190656.46	549.28353	(17012908)
651234.33	4190656.46	441.97518	(17120121)	651284.33	4190656.46	443.91818	(17122320)
651334.33	4190656.46	407.41871	(17121219)	650334.33	4190706.46	390.83761	(17120517)
650384.33	4190706.46	422.88430	(17120517)	650434.33	4190706.46	447.50432	(17123107)
650484.33	4190706.46	501.75948	(13010908)	650534.33	4190706.46	557.17577	(13021704)
650584.33	4190706.46	623.32872	(16020321)	650634.33	4190706.46	677.18131	(15122802)
650684.33	4190706.46	771.68834	(13123108)	650734.33	4190706.46	865.87277	(17123007)
650784.33	4190706.46	898.69105	(16012703)	650834.33	4190706.46	1046.03424	(17011609)
650884.33	4190706.46	1108.17110	(17123009)	650934.33	4190706.46	995.82065	(17122917)
650984.33	4190706.46	964.15117	(17012804)	651034.33	4190706.46	854.57306	(17020801)
651084.33	4190706.46	767.75905	(17120120)	651134.33	4190706.46	675.06406	(17012908)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	539.80479	(17120121)	651234.33	4190706.46	546.60431	(17122320)
651284.33	4190706.46	494.82165	(17121219)	651334.33	4190706.46	475.42261	(17011509)
650334.33	4190756.46	411.96328	(17021420)	650384.33	4190756.46	455.74584	(17121504)
650434.33	4190756.46	516.00682	(17120517)	650484.33	4190756.46	539.92525	(15010907)
650534.33	4190756.46	616.39509	(13012105)	650584.33	4190756.46	697.95761	(13021704)
650634.33	4190756.46	795.67048	(16020321)	650684.33	4190756.46	893.70965	(15010507)
650734.33	4190756.46	1002.14187	(13020306)	650784.33	4190756.46	1103.48331	(17122918)
650834.33	4190756.46	1298.03855	(17011609)	650884.33	4190756.46	1373.70997	(17123009)
650934.33	4190756.46	1260.38767	(17013024)	650984.33	4190756.46	1179.92291	(17122920)
651034.33	4190756.46	988.85718	(17020801)	651084.33	4190756.46	850.11928	(17012908)
651134.33	4190756.46	681.12037	(17120121)	651184.33	4190756.46	683.06542	(17122320)
651234.33	4190756.46	591.88589	(17121219)	651284.33	4190756.46	596.98542	(17011509)
651334.33	4190756.46	497.87507	(17011509)	650334.33	4190806.46	447.13619	(17021308)
650384.33	4190806.46	481.84741	(17120203)	650434.33	4190806.46	547.70002	(17021420)
650484.33	4190806.46	618.69807	(17121504)	650534.33	4190806.46	716.34744	(17120517)
650584.33	4190806.46	772.38222	(17123107)	650634.33	4190806.46	914.76258	(13010906)
650684.33	4190806.46	1068.61917	(16010309)	650734.33	4190806.46	1252.61092	(13012423)
650784.33	4190806.46	1471.68526	(17123007)	650834.33	4190806.46	1592.77354	(17011609)
650884.33	4190806.46	1760.11487	(17123009)	650934.33	4190806.46	1623.04765	(17122701)
650984.33	4190806.46	1444.86367	(17020801)	651034.33	4190806.46	1161.79252	(17011508)
651084.33	4190806.46	898.70084	(17120121)	651134.33	4190806.46	862.36269	(17122320)
651184.33	4190806.46	818.57960	(17011509)	651234.33	4190806.46	705.09909	(17011509)
651284.33	4190806.46	494.62375	(17011509)	651334.33	4190806.46	409.25182	(17122619)
650334.33	4190856.46	446.01531	(17121207)	650384.33	4190856.46	507.93051	(17123023)
650434.33	4190856.46	586.35874	(17021308)	650484.33	4190856.46	677.42084	(17021308)
650534.33	4190856.46	775.41904	(17021420)	650584.33	4190856.46	912.17373	(17121504)
650634.33	4190856.46	1058.88212	(17120517)	650684.33	4190856.46	1262.86027	(14120608)
650734.33	4190856.46	1572.51104	(16010309)	650784.33	4190856.46	1867.40980	(13123108)
650834.33	4190856.46	2209.80676	(15012509)	650884.33	4190856.46	2340.41609	(17123009)
650934.33	4190856.46	2214.90320	(17122620)	650984.33	4190856.46	1776.47983	(17120120)
651034.33	4190856.46	1291.68337	(17013019)	651084.33	4190856.46	1193.79669	(17121219)
651134.33	4190856.46	1089.10167	(17011509)	651184.33	4190856.46	730.16918	(17011509)
651234.33	4190856.46	566.01037	(17122619)	651284.33	4190856.46	483.74759	(17020824)
651334.33	4190856.46	403.15332	(17020824)	650334.33	4190906.46	450.51962	(17022506)
650384.33	4190906.46	522.48522	(17013105)	650434.33	4190906.46	595.83508	(17013105)
650484.33	4190906.46	690.74910	(17121207)	650534.33	4190906.46	821.49719	(17123023)
650584.33	4190906.46	1013.51269	(17021308)	650634.33	4190906.46	1221.71615	(17120203)
650684.33	4190906.46	1548.36719	(17121504)	650734.33	4190906.46	1920.05224	(13012105)
650784.33	4190906.46	2602.91368	(16010309)	650834.33	4190906.46	3230.14504	(17122918)
650884.33	4190906.46	3468.32565	(15011509)	650934.33	4190906.46	3031.85021	(17020801)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650984.33	4190906.46	2162.08087	(17122320)	651034.33	4190906.46	1917.48316	(17011509)
651084.33	4190906.46	1220.00153	(17011509)	651134.33	4190906.46	874.62178	(17020824)
651184.33	4190906.46	688.11986	(17020824)	651234.33	4190906.46	580.88315	(17011303)
651284.33	4190906.46	498.54559	(17121319)	651334.33	4190906.46	429.66848	(17121319)
650334.33	4190956.46	463.98082	(17121807)	650384.33	4190956.46	530.71463	(17121807)
650434.33	4190956.46	609.59672	(17121807)	650484.33	4190956.46	704.97025	(17122902)
650534.33	4190956.46	856.31331	(17022506)	650584.33	4190956.46	1043.27410	(17022506)
650634.33	4190956.46	1315.76291	(17013105)	650684.33	4190956.46	1712.10641	(17121207)
650734.33	4190956.46	2428.83498	(17021308)	650784.33	4190956.46	3406.58597	(17121504)
650834.33	4190956.46	4821.81321	(14040207)	650884.33	4190956.46	5504.52942	(14121116)
650934.33	4190956.46	4190.11820	(17122320)	650984.33	4190956.46	2556.45755	(17122619)
651034.33	4190956.46	1644.69423	(17011303)	651084.33	4190956.46	1219.15740	(17121319)
651134.33	4190956.46	921.00859	(17010504)	651184.33	4190956.46	760.98554	(17122519)
651234.33	4190956.46	633.23831	(17122519)	651284.33	4190956.46	527.81129	(17122519)
651334.33	4190956.46	446.16384	(17122719)	650334.33	4191006.46	483.60162	(17011505)
650384.33	4191006.46	550.19494	(17011505)	650434.33	4191006.46	634.15994	(17011505)
650484.33	4191006.46	742.64431	(17011505)	650534.33	4191006.46	887.06515	(17011505)
650584.33	4191006.46	1086.64373	(17011505)	650634.33	4191006.46	1375.85279	(17011505)
650684.33	4191006.46	1821.20046	(17011505)	650734.33	4191006.46	2559.35434	(17011505)
650784.33	4191006.46	3831.25501	(17011505)	650834.33	4191006.46	6262.38008	(17101424)
650884.33	4191006.46	14612.88071	(15121209)	650934.33	4191006.46	5144.31009	(14120709)
650984.33	4191006.46	2841.45367	(14022208)	651034.33	4191006.46	1828.56101	(14022208)
651084.33	4191006.46	1293.99968	(14022208)	651134.33	4191006.46	976.39411	(14022208)
651184.33	4191006.46	770.42182	(14022208)	651234.33	4191006.46	628.04803	(14022208)
651284.33	4191006.46	524.80940	(14022208)	651334.33	4191006.46	447.94722	(16010203)
650334.33	4191056.46	477.60248	(17122903)	650384.33	4191056.46	538.29181	(17122903)
650434.33	4191056.46	623.59443	(17121322)	650484.33	4191056.46	730.29679	(17121322)
650534.33	4191056.46	855.02845	(17121322)	650584.33	4191056.46	1033.59741	(17120702)
650634.33	4191056.46	1224.79630	(17122608)	650684.33	4191056.46	1659.77119	(17123105)
650734.33	4191056.46	2369.73388	(17120707)	650784.33	4191056.46	3650.33989	(17122609)
650834.33	4191056.46	4726.39595	(16022108)	650884.33	4191056.46	5471.49967	(13092107)
650934.33	4191056.46	4105.57554	(17022407)	650984.33	4191056.46	2533.81991	(14022307)
651034.33	4191056.46	1739.71030	(15010317)	651084.33	4191056.46	1254.84577	(15122617)
651134.33	4191056.46	954.31451	(14010519)	651184.33	4191056.46	752.82620	(15122424)
651234.33	4191056.46	625.98817	(15122424)	651284.33	4191056.46	529.05537	(14021603)
651334.33	4191056.46	451.21748	(14021603)	650334.33	4191106.46	445.09013	(17120702)
650384.33	4191106.46	475.10529	(17013104)	650434.33	4191106.46	566.82608	(17122608)
650484.33	4191106.46	668.36068	(17123105)	650534.33	4191106.46	809.23344	(17011201)
650584.33	4191106.46	991.35552	(17120707)	650634.33	4191106.46	1241.22994	(17121007)
650684.33	4191106.46	1500.38935	(17122609)	650734.33	4191106.46	1579.90378	(17121808)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP:

VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	2177.52484	(17122909)	650834.33	4191106.46	2975.84273	(17120219)
650884.33	4191106.46	3081.23878	(17012720)	650934.33	4191106.46	2809.77032	(17021405)
650984.33	4191106.46	2125.41316	(17022407)	651034.33	4191106.46	1570.96758	(17121119)
651084.33	4191106.46	1127.06887	(14022307)	651134.33	4191106.46	893.86312	(14011317)
651184.33	4191106.46	732.91381	(15010317)	651234.33	4191106.46	604.76712	(13020204)
651284.33	4191106.46	518.19611	(15122617)	651334.33	4191106.46	438.00207	(13032807)
650334.33	4191156.46	431.35466	(17123105)	650384.33	4191156.46	505.11676	(17011201)
650434.33	4191156.46	577.00826	(17011201)	650484.33	4191156.46	671.60421	(17122805)
650534.33	4191156.46	787.23419	(17020404)	650584.33	4191156.46	858.59221	(17120905)
650634.33	4191156.46	920.29035	(17043004)	650684.33	4191156.46	983.76768	(15022507)
650734.33	4191156.46	1279.31900	(17122909)	650784.33	4191156.46	1547.05875	(17122724)
650834.33	4191156.46	1825.64262	(17012717)	650884.33	4191156.46	2059.74477	(17012720)
650934.33	4191156.46	1897.26043	(17022508)	650984.33	4191156.46	1609.29912	(17012601)
651034.33	4191156.46	1290.23386	(17022407)	651084.33	4191156.46	1066.07500	(17123020)
651134.33	4191156.46	813.45977	(17121119)	651184.33	4191156.46	669.06015	(14022307)
651234.33	4191156.46	568.51792	(13020908)	651284.33	4191156.46	488.21154	(14011317)
651334.33	4191156.46	428.56898	(15010317)	650334.33	4191206.46	438.63330	(17120707)
650384.33	4191206.46	496.01040	(17121007)	650434.33	4191206.46	556.44401	(17020404)
650484.33	4191206.46	584.57483	(17120905)	650534.33	4191206.46	633.08920	(17043004)
650584.33	4191206.46	624.40100	(17121808)	650634.33	4191206.46	725.08254	(17121324)
650684.33	4191206.46	858.29929	(17122909)	650734.33	4191206.46	968.71639	(16020808)
650784.33	4191206.46	1271.64303	(17120619)	650834.33	4191206.46	1355.27293	(17012717)
650884.33	4191206.46	1471.75183	(17012720)	650934.33	4191206.46	1346.74808	(17121401)
650984.33	4191206.46	1221.76501	(17021405)	651034.33	4191206.46	1092.66753	(17012601)
651084.33	4191206.46	879.73729	(17022407)	651134.33	4191206.46	732.89727	(17123020)
651184.33	4191206.46	665.74548	(17121119)	651234.33	4191206.46	526.41876	(17120617)
651284.33	4191206.46	456.63400	(14022307)	651334.33	4191206.46	404.34562	(13020908)
650334.33	4191256.46	418.79792	(17020404)	650384.33	4191256.46	432.07758	(17120905)
650434.33	4191256.46	463.14222	(17043004)	650484.33	4191256.46	443.41392	(17043004)
650534.33	4191256.46	478.04004	(17120208)	650584.33	4191256.46	558.31300	(17121324)
650634.33	4191256.46	626.67548	(17020406)	650684.33	4191256.46	710.01912	(16022108)
650734.33	4191256.46	856.03567	(17022607)	650784.33	4191256.46	928.73328	(17120219)
650834.33	4191256.46	1021.10895	(17020802)	650884.33	4191256.46	1114.01837	(17012720)
650934.33	4191256.46	1053.83707	(17120207)	650984.33	4191256.46	951.82508	(17022508)
651034.33	4191256.46	880.86346	(17021405)	651084.33	4191256.46	770.51708	(17012601)
651134.33	4191256.46	657.47996	(17120205)	651184.33	4191256.46	586.10942	(17022407)
651234.33	4191256.46	531.33333	(17123020)	651284.33	4191256.46	455.52896	(17121119)
651334.33	4191256.46	383.39133	(17120617)	650334.33	4191306.46	355.76746	(17043004)
650384.33	4191306.46	359.85205	(17043004)	650434.33	4191306.46	357.71209	(17121808)
650484.33	4191306.46	380.49465	(17120208)	650534.33	4191306.46	443.56486	(17121324)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	487.79682	(17020406)	650634.33	4191306.46	561.18711	(17020506)
650684.33	4191306.46	614.67901	(17122724)	650734.33	4191306.46	736.52398	(17120619)
650784.33	4191306.46	706.10706	(15021408)	650834.33	4191306.46	834.04913	(17020802)
650884.33	4191306.46	880.12151	(17012720)	650934.33	4191306.46	852.69837	(17120207)
650984.33	4191306.46	808.31025	(17022508)	651034.33	4191306.46	723.46541	(17121904)
651084.33	4191306.46	660.00683	(17022706)	651134.33	4191306.46	608.19555	(17122321)
651184.33	4191306.46	517.42197	(17120205)	651234.33	4191306.46	485.85302	(17022407)
651284.33	4191306.46	428.24713	(17123020)	651334.33	4191306.46	390.64172	(17121119)
650334.33	4191356.46	280.58691	(17120624)	650384.33	4191356.46	294.37811	(17120208)
650434.33	4191356.46	315.22992	(15022507)	650484.33	4191356.46	361.62891	(17121324)
650534.33	4191356.46	394.23422	(17020406)	650584.33	4191356.46	453.75717	(17020506)
650634.33	4191356.46	463.01880	(16020808)	650684.33	4191356.46	563.72680	(17022607)
650734.33	4191356.46	623.03366	(17120219)	650784.33	4191356.46	625.64774	(17012717)
650834.33	4191356.46	689.47239	(17120618)	650884.33	4191356.46	717.97354	(17012720)
650934.33	4191356.46	667.73980	(17120207)	650984.33	4191356.46	637.13082	(17121401)
651034.33	4191356.46	579.94718	(17022508)	651084.33	4191356.46	590.21713	(17021405)
651134.33	4191356.46	533.51084	(17012601)	651184.33	4191356.46	493.45888	(17122321)
651234.33	4191356.46	421.46491	(17120205)	651284.33	4191356.46	407.61020	(17022407)
651334.33	4191356.46	341.65668	(17123020)	650334.33	4191406.46	253.12644	(17120208)
650384.33	4191406.46	272.10049	(17123024)	650434.33	4191406.46	301.11154	(17121324)
650484.33	4191406.46	327.61069	(17020406)	650534.33	4191406.46	375.65617	(17122909)
650584.33	4191406.46	375.55188	(16120505)	650634.33	4191406.46	421.80460	(17122724)
650684.33	4191406.46	493.51081	(17120619)	650734.33	4191406.46	479.11751	(17120705)
650784.33	4191406.46	548.16256	(17012717)	650834.33	4191406.46	579.08168	(17120618)
650884.33	4191406.46	600.29454	(17012720)	650934.33	4191406.46	537.29575	(17012905)
650984.33	4191406.46	547.82397	(17121401)	651034.33	4191406.46	544.85876	(17022508)
651084.33	4191406.46	494.36393	(17121904)	651134.33	4191406.46	459.20915	(17021405)
651184.33	4191406.46	445.57429	(17012601)	651234.33	4191406.46	409.38569	(17122321)
651284.33	4191406.46	352.29619	(17120205)	651334.33	4191406.46	346.30336	(17022407)
650334.33	4191456.46	239.66008	(17121324)	650384.33	4191456.46	255.61456	(17123024)
650434.33	4191456.46	278.13959	(17020406)	650484.33	4191456.46	317.52800	(17122909)
650534.33	4191456.46	316.45184	(16022108)	650584.33	4191456.46	350.96403	(17122724)
650634.33	4191456.46	407.70753	(17022607)	650684.33	4191456.46	445.70696	(17120219)
650734.33	4191456.46	402.39615	(15021408)	650784.33	4191456.46	471.40002	(17012717)
650834.33	4191456.46	491.26643	(17120618)	650884.33	4191456.46	512.00223	(17122408)
650934.33	4191456.46	436.58290	(17012905)	650984.33	4191456.46	476.26747	(17120207)
651034.33	4191456.46	469.18819	(17022508)	651084.33	4191456.46	411.67884	(17122223)
651134.33	4191456.46	422.41716	(17021405)	651184.33	4191456.46	384.95281	(17022706)
651234.33	4191456.46	372.10960	(17012601)	651284.33	4191456.46	345.98432	(17122321)
651334.33	4191456.46	300.45708	(17120205)	650334.33	4191506.46	220.23478	(17123024)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL6 ***

INCLUDING SOURCE(S): VOL6 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	240.43105	(17123021)	650434.33	4191506.46	272.18135	(17122909)
650484.33	4191506.46	277.47347	(17123104)	650534.33	4191506.46	285.99704	(16020808)
650584.33	4191506.46	309.25599	(17121506)	650634.33	4191506.46	360.61714	(17022607)
650684.33	4191506.46	373.86314	(17120219)	650734.33	4191506.46	359.81673	(17020403)
650784.33	4191506.46	401.93600	(17012717)	650834.33	4191506.46	420.97911	(17120618)
650884.33	4191506.46	445.60606	(17122408)	650934.33	4191506.46	375.54820	(13121321)
650984.33	4191506.46	430.59269	(17120207)	651034.33	4191506.46	388.59944	(17121401)
651084.33	4191506.46	391.03758	(17022508)	651134.33	4191506.46	365.74616	(17121904)
651184.33	4191506.46	358.32911	(17021405)	651234.33	4191506.46	325.74207	(17022706)
651284.33	4191506.46	312.39065	(17012601)	651334.33	4191506.46	296.94353	(17122321)
650334.33	4191556.46	210.81527	(17123021)	650384.33	4191556.46	236.15253	(17122909)
650434.33	4191556.46	244.71137	(17020506)	650484.33	4191556.46	244.27340	(16120505)
650534.33	4191556.46	272.63747	(17122724)	650584.33	4191556.46	313.12123	(17022607)
650634.33	4191556.46	336.03718	(17120219)	650684.33	4191556.46	311.40625	(17120705)
650734.33	4191556.46	339.45473	(17012717)	650784.33	4191556.46	345.95675	(17020802)
650834.33	4191556.46	364.17191	(17120618)	650884.33	4191556.46	392.66702	(17122408)
650934.33	4191556.46	337.25526	(17021222)	650984.33	4191556.46	379.04818	(17120207)
651034.33	4191556.46	355.48740	(17121401)	651084.33	4191556.46	360.04627	(17022508)
651134.33	4191556.46	312.17539	(17122223)	651184.33	4191556.46	318.07754	(17021405)
651234.33	4191556.46	292.27285	(17021405)	651284.33	4191556.46	288.59016	(17012601)
651334.33	4191556.46	264.15824	(17012601)	650934.45	4191196.80	1411.37507	(17121401)
650934.45	4191240.55	1109.17939	(17120207)	651071.58	4191520.04	394.62197	(17022508)
650517.18	4191503.06	280.28961	(16120505)	650941.63	4190991.11	4411.61938	(17121319)
650974.28	4190903.61	2332.57196	(17012908)	650989.95	4190868.34	1797.29529	(17012908)
651153.79	4190886.56	799.00004	(17122619)	651170.44	4190902.10	750.74722	(17020824)
651162.67	4190888.23	758.92445	(17122619)	651241.49	4191031.43	650.75197	(14022208)
650569.32	4190797.20	725.49716	(17123107)	650392.81	4190782.21	478.91518	(17123002)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

650334.33	4190556.46	290.98320	(13010908)	650384.33	4190556.46	315.45786	(13010906)
650434.33	4190556.46	339.78024	(15010508)	650484.33	4190556.46	364.58527	(16020321)
650534.33	4190556.46	389.36898	(15122802)	650584.33	4190556.46	423.16134	(15010507)
650634.33	4190556.46	454.27529	(13123108)	650684.33	4190556.46	472.64992	(15022608)
650734.33	4190556.46	525.91350	(17122918)	650784.33	4190556.46	524.78110	(16012703)
650834.33	4190556.46	590.57231	(17011609)	650884.33	4190556.46	568.39204	(17123009)
650934.33	4190556.46	629.29791	(17123009)	650984.33	4190556.46	624.76211	(17122917)
651034.33	4190556.46	581.42718	(17013024)	651084.33	4190556.46	562.77172	(17012804)
651134.33	4190556.46	523.51052	(17012903)	651184.33	4190556.46	497.15598	(17020801)
651234.33	4190556.46	444.72357	(17120120)	651284.33	4190556.46	384.24236	(17011508)
651334.33	4190556.46	375.64906	(17012908)	650334.33	4190606.46	305.51909	(17123107)
650384.33	4190606.46	336.64667	(13010908)	650434.33	4190606.46	364.87633	(13010906)
650484.33	4190606.46	396.15865	(15010508)	650534.33	4190606.46	428.36269	(15021803)
650584.33	4190606.46	461.05842	(15122802)	650634.33	4190606.46	507.65510	(13012423)
650684.33	4190606.46	539.31951	(13020306)	650734.33	4190606.46	604.59132	(17123007)
650784.33	4190606.46	606.78164	(13012005)	650834.33	4190606.46	648.20658	(17011609)
650884.33	4190606.46	668.45552	(17122820)	650934.33	4190606.46	722.85998	(17123009)
650984.33	4190606.46	719.51821	(17122917)	651034.33	4190606.46	676.29713	(17012520)
651084.33	4190606.46	652.61803	(17122920)	651134.33	4190606.46	594.79646	(17020801)
651184.33	4190606.46	527.13670	(17120120)	651234.33	4190606.46	468.51617	(17011508)
651284.33	4190606.46	445.56820	(17012908)	651334.33	4190606.46	355.63812	(17013019)
650334.33	4190656.46	343.13406	(17120517)	650384.33	4190656.46	351.84668	(17123107)
650434.33	4190656.46	390.76474	(13012105)	650484.33	4190656.46	429.02685	(14120608)
650534.33	4190656.46	469.81653	(15010508)	650584.33	4190656.46	515.94281	(15021803)
650634.33	4190656.46	551.15892	(15122802)	650684.33	4190656.46	617.98641	(14021122)
650734.33	4190656.46	663.26995	(15022608)	650784.33	4190656.46	722.03296	(17122918)
650834.33	4190656.46	757.88706	(15010901)	650884.33	4190656.46	801.75992	(17011609)
650934.33	4190656.46	841.42141	(17123009)	650984.33	4190656.46	813.93649	(17122917)
651034.33	4190656.46	789.81699	(17122319)	651084.33	4190656.46	730.47491	(17012903)
651134.33	4190656.46	653.36304	(17020801)	651184.33	4190656.46	572.90679	(17011508)
651234.33	4190656.46	539.18398	(17012908)	651284.33	4190656.46	425.52001	(17013019)
651334.33	4190656.46	444.68113	(17122320)	650334.33	4190706.46	364.39470	(17121504)
650384.33	4190706.46	402.38749	(17120517)	650434.33	4190706.46	420.13284	(17120517)
650484.33	4190706.46	455.41507	(13012121)	650534.33	4190706.46	511.42990	(14120608)
650584.33	4190706.46	570.78044	(14021223)	650634.33	4190706.46	638.09132	(16010309)
650684.33	4190706.46	695.78680	(15010507)	650734.33	4190706.46	779.35875	(13123108)
650784.33	4190706.46	886.01067	(17123007)	650834.33	4190706.46	922.06203	(15012509)
650884.33	4190706.46	1012.74165	(17011609)	650934.33	4190706.46	995.11196	(17011719)
650984.33	4190706.46	998.59109	(17013024)	651034.33	4190706.46	958.22769	(17122620)
651084.33	4190706.46	870.08785	(17020801)	651134.33	4190706.46	739.43359	(17120120)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

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651184.33	4190706.46	668.96292	(17012908)	651234.33	4190706.46	521.46675	(17013019)
651284.33	4190706.46	539.09112	(17122320)	651334.33	4190706.46	483.37565	(17121219)
650334.33	4190756.46	382.88537	(17120203)	650384.33	4190756.46	419.61037	(17123002)
650434.33	4190756.46	470.13826	(17121504)	650484.33	4190756.46	528.89568	(17120517)
650534.33	4190756.46	550.28571	(17123107)	650584.33	4190756.46	633.51845	(13010908)
650634.33	4190756.46	717.05422	(14021223)	650684.33	4190756.46	825.58038	(16010309)
650734.33	4190756.46	928.17054	(15010507)	650784.33	4190756.46	1033.41108	(15022608)
650834.33	4190756.46	1123.62055	(16012703)	650884.33	4190756.46	1305.56489	(17011609)
650934.33	4190756.46	1235.13192	(15011509)	650984.33	4190756.46	1247.34024	(17012520)
651034.33	4190756.46	1128.66895	(17012903)	651084.33	4190756.46	978.24345	(17120120)
651134.33	4190756.46	856.53057	(17012908)	651184.33	4190756.46	659.11439	(17013019)
651234.33	4190756.46	658.44248	(17122320)	651284.33	4190756.46	598.65136	(17011509)
651334.33	4190756.46	583.72140	(17011509)	650334.33	4190806.46	406.34579	(17021308)
650384.33	4190806.46	455.11551	(17021308)	650434.33	4190806.46	496.45245	(17120203)
650484.33	4190806.46	557.00988	(17021420)	650534.33	4190806.46	640.52968	(17121504)
650584.33	4190806.46	726.48514	(17120517)	650634.33	4190806.46	805.48509	(13012105)
650684.33	4190806.46	940.33300	(13021704)	650734.33	4190806.46	1122.64299	(16010309)
650784.33	4190806.46	1277.07757	(13123108)	650834.33	4190806.46	1495.26803	(17122918)
650884.33	4190806.46	1710.99751	(17011609)	650934.33	4190806.46	1620.23068	(17122917)
650984.33	4190806.46	1596.95611	(17012804)	651034.33	4190806.46	1412.95670	(17020801)
651084.33	4190806.46	1140.52074	(17012908)	651134.33	4190806.46	903.56690	(17122320)
651184.33	4190806.46	850.95413	(17121219)	651234.33	4190806.46	811.85643	(17011509)
651284.33	4190806.46	665.67675	(17011509)	651334.33	4190806.46	452.94306	(17011509)
650334.33	4190856.46	408.02584	(17121207)	650384.33	4190856.46	454.08953	(17121207)
650434.33	4190856.46	519.94573	(17123023)	650484.33	4190856.46	607.67244	(17021308)
650534.33	4190856.46	688.86968	(17021308)	650584.33	4190856.46	799.61607	(17021420)
650634.33	4190856.46	948.58463	(17121504)	650684.33	4190856.46	1064.97607	(15010907)
650734.33	4190856.46	1319.82371	(13010906)	650784.33	4190856.46	1637.25283	(16010309)
650834.33	4190856.46	1951.72942	(15022608)	650884.33	4190856.46	2224.15566	(17011609)
650934.33	4190856.46	2383.48978	(17122917)	650984.33	4190856.46	2098.53330	(17122920)
651034.33	4190856.46	1659.05184	(17011508)	651084.33	4190856.46	1341.13111	(17122320)
651134.33	4190856.46	1177.24305	(17011509)	651184.33	4190856.46	1027.05593	(17011509)
651234.33	4190856.46	656.81211	(17011509)	651284.33	4190856.46	538.89146	(17122619)
651334.33	4190856.46	469.43952	(17020824)	650334.33	4190906.46	419.27059	(17022506)
650384.33	4190906.46	463.11976	(17013105)	650434.33	4190906.46	537.49591	(17013105)
650484.33	4190906.46	609.43060	(17013105)	650534.33	4190906.46	715.79274	(17121207)
650584.33	4190906.46	854.38936	(17123023)	650634.33	4190906.46	1061.99607	(17021308)
650684.33	4190906.46	1278.96659	(17021420)	650734.33	4190906.46	1617.95607	(17120517)
650784.33	4190906.46	2031.96060	(13010908)	650834.33	4190906.46	2638.63688	(15122802)
650884.33	4190906.46	3309.11320	(15012509)	650934.33	4190906.46	3443.46310	(17122917)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC

(YYMMDDHH)

650984.33	4190906.46	2867.46710 (17120120)	651034.33	4190906.46	2179.62263 (17122320)
651084.33	4190906.46	1829.33409 (17011509)	651134.33	4190906.46	1084.23246 (17122619)
651184.33	4190906.46	844.04706 (17020824)	651234.33	4190906.46	661.75788 (17011303)
651284.33	4190906.46	558.14842 (17011303)	651334.33	4190906.46	485.22694 (17121319)
650334.33	4190956.46	418.20240 (17121807)	650384.33	4190956.46	476.43469 (17121807)
650434.33	4190956.46	545.47011 (17121807)	650484.33	4190956.46	626.94690 (17121807)
650534.33	4190956.46	728.44679 (17022506)	650584.33	4190956.46	891.49237 (17022506)
650634.33	4190956.46	1083.18050 (17022506)	650684.33	4190956.46	1383.56983 (17013105)
650734.33	4190956.46	1814.14930 (17121207)	650784.33	4190956.46	2591.26852 (17021308)
650834.33	4190956.46	3622.56225 (15010907)	650884.33	4190956.46	5318.93760 (14011009)
650934.33	4190956.46	5242.68892 (14032104)	650984.33	4190956.46	3903.31045 (17121219)
651034.33	4190956.46	2328.73224 (17122619)	651084.33	4190956.46	1550.32807 (17011303)
651134.33	4190956.46	1152.27653 (17121319)	651184.33	4190956.46	876.09607 (17122519)
651234.33	4190956.46	733.71879 (17122519)	651284.33	4190956.46	610.38138 (17122519)
651334.33	4190956.46	509.27078 (17122519)	650334.33	4191006.46	439.63748 (17011505)
650384.33	4191006.46	495.78112 (17011505)	650434.33	4191006.46	565.41325 (17011505)
650484.33	4191006.46	653.60687 (17011505)	650534.33	4191006.46	768.18212 (17011505)
650584.33	4191006.46	921.75250 (17011505)	650634.33	4191006.46	1135.80456 (17011505)
650684.33	4191006.46	1449.41598 (17011505)	650734.33	4191006.46	1939.11070 (17011505)
650784.33	4191006.46	2762.71362 (17011505)	650834.33	4191006.46	4149.75323 (17011505)
650884.33	4191006.46	7222.48617 (17110108)	650934.33	4191006.46	12069.98919 (15121209)
650984.33	4191006.46	4457.69088 (14120709)	651034.33	4191006.46	2577.39760 (14022208)
651084.33	4191006.46	1695.43142 (14022208)	651134.33	4191006.46	1217.79735 (14022208)
651184.33	4191006.46	928.31626 (14022208)	651234.33	4191006.46	737.86721 (14022208)
651284.33	4191006.46	604.81412 (14022208)	651334.33	4191006.46	507.54435 (14022208)
650334.33	4191056.46	435.01595 (17122903)	650384.33	4191056.46	489.05553 (17122903)
650434.33	4191056.46	551.47887 (17122903)	650484.33	4191056.46	643.46616 (17121322)
650534.33	4191056.46	753.85939 (17121322)	650584.33	4191056.46	884.27203 (17120702)
650634.33	4191056.46	1071.82722 (17120702)	650684.33	4191056.46	1306.88961 (17122608)
650734.33	4191056.46	1766.95129 (17011201)	650784.33	4191056.46	2558.32506 (17121007)
650834.33	4191056.46	3712.57171 (17122609)	650884.33	4191056.46	5108.64580 (13122409)
650934.33	4191056.46	5278.57410 (13012019)	650984.33	4191056.46	3756.99605 (17123020)
651034.33	4191056.46	2325.60847 (14022106)	651084.33	4191056.46	1621.03510 (15010317)
651134.33	4191056.46	1176.82726 (15122617)	651184.33	4191056.46	908.10322 (14010519)
651234.33	4191056.46	725.65105 (15122424)	651284.33	4191056.46	603.44822 (14021603)
651334.33	4191056.46	512.21042 (14021603)	650334.33	4191106.46	415.82807 (17120702)
650384.33	4191106.46	451.83832 (17120702)	650434.33	4191106.46	488.85558 (17122608)
650484.33	4191106.46	587.03148 (17122608)	650534.33	4191106.46	693.03349 (17123105)
650584.33	4191106.46	849.09188 (17011201)	650634.33	4191106.46	1040.59963 (17120707)
650684.33	4191106.46	1296.57665 (17020404)	650734.33	4191106.46	1573.17241 (17122609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	1639.44002	(17120208)	650834.33	4191106.46	2320.02417	(17020506)
650884.33	4191106.46	2837.19633	(15021408)	650934.33	4191106.46	3194.84151	(17120207)
650984.33	4191106.46	2606.41540	(17022706)	651034.33	4191106.46	2006.91301	(17022407)
651084.33	4191106.46	1437.57252	(17121119)	651134.33	4191106.46	1071.68864	(14022307)
651184.33	4191106.46	853.47448	(14011317)	651234.33	4191106.46	709.08495	(15010317)
651284.33	4191106.46	583.44776	(15122617)	651334.33	4191106.46	501.12115	(15122617)
650334.33	4191156.46	394.59313	(17123105)	650384.33	4191156.46	438.82686	(17123105)
650434.33	4191156.46	521.31141	(17011201)	650484.33	4191156.46	595.12186	(17120707)
650534.33	4191156.46	696.75264	(17121007)	650584.33	4191156.46	811.78836	(17020404)
650634.33	4191156.46	884.31339	(17122609)	650684.33	4191156.46	891.20030	(17043004)
650734.33	4191156.46	1063.19569	(17121324)	650784.33	4191156.46	1360.52593	(17122909)
650834.33	4191156.46	1727.83137	(17022607)	650884.33	4191156.46	1936.01105	(17122622)
650934.33	4191156.46	1896.48962	(17012905)	650984.33	4191156.46	1733.58736	(17122223)
651034.33	4191156.46	1572.80197	(17012601)	651084.33	4191156.46	1278.01577	(17022407)
651134.33	4191156.46	1021.83645	(17123020)	651184.33	4191156.46	774.56802	(17120617)
651234.33	4191156.46	649.86818	(14022307)	651284.33	4191156.46	550.95308	(14022106)
651334.33	4191156.46	473.75144	(14010220)	650334.33	4191206.46	397.60674	(17120707)
650384.33	4191206.46	448.31477	(17122805)	650434.33	4191206.46	505.52950	(17121007)
650484.33	4191206.46	566.05100	(17020404)	650534.33	4191206.46	595.71531	(17120905)
650584.33	4191206.46	632.09400	(17043004)	650634.33	4191206.46	632.91676	(17121808)
650684.33	4191206.46	758.60455	(17121324)	650734.33	4191206.46	914.91158	(17122909)
650784.33	4191206.46	1036.66205	(17122724)	650834.33	4191206.46	1299.90222	(17120219)
650884.33	4191206.46	1387.00865	(17020802)	650934.33	4191206.46	1352.44337	(17012720)
650984.33	4191206.46	1351.24986	(17022508)	651034.33	4191206.46	1227.23873	(17021405)
651084.33	4191206.46	1037.11996	(17122321)	651134.33	4191206.46	889.83737	(17022407)
651184.33	4191206.46	739.83940	(17123020)	651234.33	4191206.46	640.49361	(17121119)
651284.33	4191206.46	516.28002	(17120617)	651334.33	4191206.46	448.16288	(14022307)
650334.33	4191256.46	387.80875	(17020404)	650384.33	4191256.46	422.72183	(17020404)
650434.33	4191256.46	439.66267	(17120905)	650484.33	4191256.46	467.84938	(17043004)
650534.33	4191256.46	449.39585	(17120624)	650584.33	4191256.46	486.09657	(17120208)
650634.33	4191256.46	570.58850	(17121324)	650684.33	4191256.46	665.05857	(17122909)
650734.33	4191256.46	711.18571	(16120505)	650784.33	4191256.46	910.65964	(17022607)
650834.33	4191256.46	898.78253	(17120705)	650884.33	4191256.46	1068.80242	(17120618)
650934.33	4191256.46	1061.14732	(17012720)	650984.33	4191256.46	1020.24588	(17121401)
651034.33	4191256.46	897.48213	(17121904)	651084.33	4191256.46	846.39832	(17022706)
651134.33	4191256.46	773.87684	(17122321)	651184.33	4191256.46	660.41234	(17022407)
651234.33	4191256.46	544.47703	(17022407)	651284.33	4191256.46	513.05945	(17123020)
651334.33	4191256.46	433.85428	(17121119)	650334.33	4191306.46	342.34400	(17120905)
650384.33	4191306.46	361.30402	(17043004)	650434.33	4191306.46	352.84747	(17043004)
650484.33	4191306.46	362.33252	(17121808)	650534.33	4191306.46	387.25454	(15022507)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650584.33	4191306.46	446.79721	(17121324)	650634.33	4191306.46	509.89582	(17122909)
650684.33	4191306.46	555.81641	(17123104)	650734.33	4191306.46	622.71853	(17122724)
650784.33	4191306.46	761.33014	(17120219)	650834.33	4191306.46	754.10880	(17012717)
650884.33	4191306.46	848.51011	(17120618)	650934.33	4191306.46	856.18031	(17012720)
650984.33	4191306.46	838.61339	(17120207)	651034.33	4191306.46	797.15946	(17022508)
651084.33	4191306.46	725.06116	(17021405)	651134.33	4191306.46	653.31390	(17012601)
651184.33	4191306.46	602.20244	(17122321)	651234.33	4191306.46	512.95433	(17022407)
651284.33	4191306.46	462.19693	(17022407)	651334.33	4191306.46	425.19378	(17123020)
650334.33	4191356.46	293.07560	(17043004)	650384.33	4191356.46	285.00736	(17120624)
650434.33	4191356.46	300.47059	(17120208)	650484.33	4191356.46	325.62904	(17123024)
650534.33	4191356.46	361.44917	(17123024)	650584.33	4191356.46	406.30033	(17122909)
650634.33	4191356.46	455.17808	(17020506)	650684.33	4191356.46	485.79546	(17122724)
650734.33	4191356.46	585.37559	(17022607)	650784.33	4191356.46	601.09172	(17120219)
650834.33	4191356.46	652.70909	(17012717)	650884.33	4191356.46	686.37423	(17120618)
650934.33	4191356.46	707.87232	(17012720)	650984.33	4191356.46	695.62270	(17120207)
651034.33	4191356.46	649.87707	(17022508)	651084.33	4191356.46	574.93878	(17121904)
651134.33	4191356.46	573.04158	(17021405)	651184.33	4191356.46	533.89457	(17012601)
651234.33	4191356.46	484.28768	(17122321)	651284.33	4191356.46	412.03199	(17022407)
651334.33	4191356.46	394.20372	(17022407)	650334.33	4191406.46	243.09601	(17121808)
650384.33	4191406.46	255.22035	(17120208)	650434.33	4191406.46	281.95751	(17121324)
650484.33	4191406.46	299.84838	(17123024)	650534.33	4191406.46	333.04827	(17122909)
650584.33	4191406.46	379.07363	(17020506)	650634.33	4191406.46	379.42819	(16020808)
650684.33	4191406.46	431.61739	(17022607)	650734.33	4191406.46	510.20910	(17120619)
650784.33	4191406.46	478.57071	(17120705)	650834.33	4191406.46	551.84117	(17012717)
650884.33	4191406.46	565.30696	(17120618)	650934.33	4191406.46	597.23578	(17012720)
650984.33	4191406.46	561.61281	(17120207)	651034.33	4191406.46	542.50568	(17121401)
651084.33	4191406.46	524.08729	(17022508)	651134.33	4191406.46	484.32845	(17021405)
651184.33	4191406.46	452.02864	(17022706)	651234.33	4191406.46	436.39113	(17012601)
651284.33	4191406.46	399.62739	(17122321)	651334.33	4191406.46	345.99520	(17120205)
650334.33	4191456.46	219.15702	(15022507)	650384.33	4191456.46	246.60450	(17121324)
650434.33	4191456.46	253.55672	(17123024)	650484.33	4191456.46	282.53811	(17020406)
650534.33	4191456.46	320.35717	(17122909)	650584.33	4191456.46	317.86029	(16120505)
650634.33	4191456.46	357.91385	(17122724)	650684.33	4191456.46	418.25874	(17022607)
650734.33	4191456.46	443.78496	(17120219)	650784.33	4191456.46	411.43382	(15021408)
650834.33	4191456.46	462.49024	(17012717)	650884.33	4191456.46	473.10898	(17120618)
650934.33	4191456.46	512.39549	(17012720)	650984.33	4191456.46	462.36412	(17012905)
651034.33	4191456.46	465.67569	(17121401)	651084.33	4191456.46	472.25751	(17022508)
651134.33	4191456.46	409.53238	(17121904)	651184.33	4191456.46	421.28350	(17021405)
651234.33	4191456.46	379.61448	(17022706)	651284.33	4191456.46	359.38902	(17012601)
651334.33	4191456.46	336.59805	(17122321)	650334.33	4191506.46	217.15710	(17121324)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL7 ***

INCLUDING SOURCE(S): VOL7 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	220.39781	(14121304)	650434.33	4191506.46	244.01938	(17020406)
650484.33	4191506.46	275.97363	(17122909)	650534.33	4191506.46	274.26935	(16022108)
650584.33	4191506.46	296.71792	(17122724)	650634.33	4191506.46	331.38351	(17022607)
650684.33	4191506.46	373.53886	(17120619)	650734.33	4191506.46	355.29740	(17120219)
650784.33	4191506.46	381.98388	(17012717)	650834.33	4191506.46	399.47378	(17020802)
650884.33	4191506.46	405.64359	(17121308)	650934.33	4191506.46	445.76884	(17012720)
650984.33	4191506.46	384.40736	(17012905)	651034.33	4191506.46	417.02136	(17120207)
651084.33	4191506.46	399.21414	(17022508)	651134.33	4191506.46	372.18905	(17022508)
651184.33	4191506.46	362.38371	(17121904)	651234.33	4191506.46	345.83042	(17021405)
651284.33	4191506.46	327.66301	(17012601)	651334.33	4191506.46	298.88789	(17012601)
650334.33	4191556.46	194.43640	(14121304)	650384.33	4191556.46	213.64158	(17020406)
650434.33	4191556.46	240.28916	(17122909)	650484.33	4191556.46	243.47706	(17123104)
650534.33	4191556.46	248.09163	(16020808)	650584.33	4191556.46	272.78565	(17122724)
650634.33	4191556.46	318.94705	(17022607)	650684.33	4191556.46	340.00188	(17120219)
650734.33	4191556.46	310.14275	(17120705)	650784.33	4191556.46	352.05744	(17012717)
650834.33	4191556.46	363.25101	(17020802)	650884.33	4191556.46	357.33222	(17121308)
650934.33	4191556.46	392.36822	(17012720)	650984.33	4191556.46	329.25499	(13121321)
651034.33	4191556.46	379.09838	(17120207)	651084.33	4191556.46	348.27351	(17121401)
651134.33	4191556.46	354.92223	(17022508)	651184.33	4191556.46	311.43330	(17121904)
651234.33	4191556.46	321.98715	(17021405)	651284.33	4191556.46	292.86988	(17022706)
651334.33	4191556.46	290.24871	(17012601)	650934.45	4191196.80	1419.32332	(17012720)
650934.45	4191240.55	1141.36522	(17012720)	651071.58	4191520.04	384.08549	(17121401)
650517.18	4191503.06	281.73580	(17020506)	650941.63	4190991.11	7784.07254	(14102408)
650974.28	4190903.61	2988.72541	(17020801)	650989.95	4190868.34	2220.80290	(17020801)
651153.79	4190886.56	1095.99625	(17011509)	651170.44	4190902.10	887.00530	(17122619)
651162.67	4190888.23	970.47880	(17011509)	651241.49	4191031.43	752.23085	(14022208)
650569.32	4190797.20	684.55880	(17120517)	650392.81	4190782.21	441.97366	(17120203)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***
INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650334.33	4190556.46	250.03366	(13021704)	650384.33	4190556.46	267.18751	(15010508)
650434.33	4190556.46	283.48037	(16020321)	650484.33	4190556.46	301.72982	(16010309)
650534.33	4190556.46	304.34031	(15122802)	650584.33	4190556.46	342.16340	(13012423)
650634.33	4190556.46	357.41673	(17121508)	650684.33	4190556.46	369.41379	(15022608)
650734.33	4190556.46	410.53700	(17122918)	650784.33	4190556.46	409.23152	(16012703)
650834.33	4190556.46	427.66146	(15010901)	650884.33	4190556.46	487.75862	(17011609)
650934.33	4190556.46	501.68721	(17123009)	650984.33	4190556.46	472.01252	(17011719)

651034.33	4190556.46	490.70335	(17122917)	651084.33	4190556.46	464.92114	(17013024)
651134.33	4190556.46	447.08815	(17122319)	651184.33	4190556.46	439.13595	(17122920)
651234.33	4190556.46	393.05823	(17012903)	651284.33	4190556.46	378.52499	(17020801)
651334.33	4190556.46	350.85682	(17120120)	650334.33	4190606.46	261.40073	(14120608)
650384.33	4190606.46	283.37030	(13010906)	650434.33	4190606.46	303.73610	(15010508)
650484.33	4190606.46	324.32341	(16020321)	650534.33	4190606.46	344.76810	(16010309)
650584.33	4190606.46	363.12053	(15010507)	650634.33	4190606.46	396.11159	(14021122)
650684.33	4190606.46	413.16148	(13020306)	650734.33	4190606.46	461.30517	(17123007)
650784.33	4190606.46	460.71384	(14021105)	650834.33	4190606.46	488.72661	(15012509)
650884.33	4190606.46	554.17705	(17011609)	650934.33	4190606.46	564.45425	(17123009)
650984.33	4190606.46	531.06882	(17011719)	651034.33	4190606.46	558.58716	(17122917)
651084.33	4190606.46	521.34558	(17013024)	651134.33	4190606.46	508.99539	(17012804)
651184.33	4190606.46	470.47703	(17012903)	651234.33	4190606.46	457.62788	(17020801)
651284.33	4190606.46	403.88922	(17120120)	651334.33	4190606.46	365.55938	(17011508)
650334.33	4190656.46	275.44551	(13012105)	650384.33	4190656.46	300.70833	(13010908)
650434.33	4190656.46	324.35721	(13010906)	650484.33	4190656.46	349.28863	(15010508)
650534.33	4190656.46	376.27533	(16020321)	650584.33	4190656.46	401.51392	(15122802)
650634.33	4190656.46	437.39890	(15010507)	650684.33	4190656.46	470.84901	(13123108)
650734.33	4190656.46	488.95976	(15022608)	650784.33	4190656.46	544.16828	(17122918)
650834.33	4190656.46	549.21615	(14120620)	650884.33	4190656.46	627.96703	(17011609)
650934.33	4190656.46	641.35863	(17123009)	650984.33	4190656.46	602.33744	(17011719)
651034.33	4190656.46	629.50351	(17122917)	651084.33	4190656.46	600.52184	(17012520)
651134.33	4190656.46	580.37404	(17122620)	651184.33	4190656.46	513.20265	(17012903)
651234.33	4190656.46	463.00584	(17020801)	651284.33	4190656.46	424.16929	(17011508)
651334.33	4190656.46	407.41029	(17012908)	650334.33	4190706.46	296.85351	(17120517)
650384.33	4190706.46	314.84453	(17123107)	650434.33	4190706.46	344.56345	(13010908)
650484.33	4190706.46	375.61964	(14120608)	650534.33	4190706.46	407.20735	(15010508)
650584.33	4190706.46	444.12314	(16020321)	650634.33	4190706.46	479.24494	(15122802)
650684.33	4190706.46	527.53745	(13012423)	650734.33	4190706.46	561.47266	(13020306)
650784.33	4190706.46	630.45464	(17123007)	650834.33	4190706.46	636.36708	(16012703)
650884.33	4190706.46	705.64634	(17011609)	650934.33	4190706.46	737.01097	(17123009)
650984.33	4190706.46	698.09531	(15011509)	651034.33	4190706.46	695.57109	(17122917)
651084.33	4190706.46	687.82750	(17122319)	651134.33	4190706.46	636.54050	(17122920)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
651184.33	4190706.46	608.67283	(17020801)	651234.33	4190706.46	532.86872	(17120120)
651284.33	4190706.46	476.74432	(17012908)	651334.33	4190706.46	415.50232	(17120121)
650334.33	4190756.46	327.50052	(17121504)	650384.33	4190756.46	357.38258	(17120517)
650434.33	4190756.46	362.12103	(15010907)	650484.33	4190756.46	400.88385	(13012105)
650534.33	4190756.46	441.91943	(14120608)	650584.33	4190756.46	486.15704	(14021223)
650634.33	4190756.46	535.67943	(16020321)	650684.33	4190756.46	578.81280	(15122802)

650734.33 4190756.46 646.50834 (14021122) 650784.33 4190756.46 692.94420 (15022608)
650834.33 4190756.46 743.45585 (14021105) 650884.33 4190756.46 797.42674 (14012501)
650934.33 4190756.46 857.83109 (17123009) 650984.33 4190756.46 829.63614 (15011509)
651034.33 4190756.46 853.69381 (17013024) 651084.33 4190756.46 816.47218 (17122620)
651134.33 4190756.46 728.56799 (17020801) 651184.33 4190756.46 659.18387 (17120120)
651234.33 4190756.46 564.27901 (17012908) 651284.33 4190756.46 504.31073 (17012908)
651334.33 4190756.46 455.11951 (17122320) 650334.33 4190806.46 340.79815 (17021420)
650384.33 4190806.46 371.19402 (17013106) 650434.33 4190806.46 410.33850 (17121504)
650484.33 4190806.46 448.54484 (17120517) 650534.33 4190806.46 472.43994 (17123107)
650584.33 4190806.46 531.48383 (13010908) 650634.33 4190806.46 593.61716 (14021223)
650684.33 4190806.46 664.78003 (15021803) 650734.33 4190806.46 724.60399 (15010507)
650784.33 4190806.46 820.29221 (13123108) 650834.33 4190806.46 928.14585 (17123007)
650884.33 4190806.46 983.68858 (15012509) 650934.33 4190806.46 1019.51054 (17122820)
650984.33 4190806.46 1018.84806 (17122917) 651034.33 4190806.46 1037.35877 (17012520)
651084.33 4190806.46 964.14483 (17122920) 651134.33 4190806.46 844.72860 (17020801)
651184.33 4190806.46 721.66902 (17011508) 651234.33 4190806.46 631.67095 (17012908)
651284.33 4190806.46 574.98747 (17122320) 651334.33 4190806.46 530.73068 (17121219)
650334.33 4190856.46 364.51556 (17021308) 650384.33 4190856.46 390.38723 (17120203)
650434.33 4190856.46 434.94449 (17021420) 650484.33 4190856.46 479.70311 (17013106)
650534.33 4190856.46 541.22708 (17120517) 650584.33 4190856.46 575.56928 (15010907)
650634.33 4190856.46 658.87068 (13012105) 650684.33 4190856.46 750.51843 (13021704)
650734.33 4190856.46 863.97628 (16010309) 650784.33 4190856.46 984.07343 (15010507)
650834.33 4190856.46 1098.23480 (15022608) 650884.33 4190856.46 1202.80878 (16012703)
650934.33 4190856.46 1318.94963 (17011609) 650984.33 4190856.46 1362.46244 (17122917)
651034.33 4190856.46 1278.48551 (17122319) 651084.33 4190856.46 1157.05643 (17020801)
651134.33 4190856.46 949.45322 (17011508) 651184.33 4190856.46 822.68839 (17012908)
651234.33 4190856.46 745.32993 (17122320) 651284.33 4190856.46 660.25307 (17121219)
651334.33 4190856.46 646.43711 (17011509) 650334.33 4190906.46 367.68919 (17123023)
650384.33 4190906.46 402.30696 (17123023) 650434.33 4190906.46 467.80625 (17021308)
650484.33 4190906.46 513.82688 (17021308) 650534.33 4190906.46 579.91360 (17021420)
650584.33 4190906.46 656.38270 (17013106) 650634.33 4190906.46 768.30778 (17120517)
650684.33 4190906.46 836.86424 (17123107) 650734.33 4190906.46 998.09961 (13010906)
650784.33 4190906.46 1195.11420 (16010309) 650834.33 4190906.46 1374.02560 (14021122)
650884.33 4190906.46 1599.24586 (17122918) 650934.33 4190906.46 1808.53017 (17011609)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)

650984.33 4190906.46 1846.83428 (17122917) 651034.33 4190906.46 1675.59362 (17122920)
651084.33 4190906.46 1389.52543 (17120120) 651134.33 4190906.46 1132.32114 (17012908)
651184.33 4190906.46 993.59251 (17122320) 651234.33 4190906.46 887.58490 (17011509)
651284.33 4190906.46 788.30264 (17011509) 651334.33 4190906.46 550.72718 (17011509)
650334.33 4190956.46 377.14357 (17013105) 650384.33 4190956.46 413.64390 (17012823)

650434.33	4190956.46	467.27553	(17121207)	650484.33	4190956.46	527.50602	(17123023)
650534.33	4190956.46	605.66868	(17123023)	650584.33	4190956.46	728.35439	(17021308)
650634.33	4190956.46	830.41044	(17120203)	650684.33	4190956.46	982.11719	(17013106)
650734.33	4190956.46	1180.89470	(17120517)	650784.33	4190956.46	1409.26877	(14120608)
650834.33	4190956.46	1794.50462	(16010309)	650884.33	4190956.46	2151.09311	(15022608)
650934.33	4190956.46	2550.33719	(17011609)	650984.33	4190956.46	2473.15341	(17013024)
651034.33	4190956.46	2190.51450	(17020801)	651084.33	4190956.46	1693.59600	(17012908)
651134.33	4190956.46	1378.95735	(17121219)	651184.33	4190956.46	1250.12762	(17011509)
651234.33	4190956.46	836.11075	(17011509)	651284.33	4190956.46	629.69390	(17122619)
651334.33	4190956.46	534.47160	(17020824)	650334.33	4191006.46	378.41822	(17022506)
650384.33	4191006.46	429.07843	(17022506)	650434.33	4191006.46	484.10533	(17022506)
650484.33	4191006.46	540.79882	(17022506)	650534.33	4191006.46	631.56097	(17013105)
650584.33	4191006.46	733.80405	(17013105)	650634.33	4191006.46	877.58577	(17121207)
650684.33	4191006.46	1073.18659	(17123023)	650734.33	4191006.46	1370.24372	(17021308)
650784.33	4191006.46	1720.16499	(17013106)	650834.33	4191006.46	2214.41762	(13012105)
650884.33	4191006.46	3028.29154	(16010309)	650934.33	4191006.46	3929.75776	(15012509)
650984.33	4191006.46	3722.33365	(17012804)	651034.33	4191006.46	2892.89440	(17012908)
651084.33	4191006.46	2262.86565	(17011509)	651134.33	4191006.46	1468.19226	(17011509)
651184.33	4191006.46	1029.92123	(17020824)	651234.33	4191006.46	793.04421	(17011303)
651284.33	4191006.46	648.47898	(17121319)	651334.33	4191006.46	554.72679	(17121319)
650334.33	4191056.46	385.49060	(17013008)	650384.33	4191056.46	429.42977	(17013008)
650434.33	4191056.46	481.38495	(17013008)	650484.33	4191056.46	543.19436	(17013008)
650534.33	4191056.46	632.87658	(17121807)	650584.33	4191056.46	754.19988	(17121807)
650634.33	4191056.46	908.05325	(17121807)	650684.33	4191056.46	1107.85423	(17022506)
650734.33	4191056.46	1444.47364	(17022506)	650784.33	4191056.46	1925.99090	(17013105)
650834.33	4191056.46	2731.43964	(17123023)	650884.33	4191056.46	4146.35439	(17121504)
650934.33	4191056.46	6669.34871	(14011009)	650984.33	4191056.46	5978.89013	(14021107)
651034.33	4191056.46	3544.55053	(17122619)	651084.33	4191056.46	2129.47931	(17011303)
651134.33	4191056.46	1461.83299	(17010504)	651184.33	4191056.46	1122.46234	(17122519)
651234.33	4191056.46	873.99981	(17122519)	651284.33	4191056.46	692.71731	(17122719)
651334.33	4191056.46	572.83123	(17122719)	650334.33	4191106.46	387.48019	(17011505)
650384.33	4191106.46	433.71761	(17120922)	650434.33	4191106.46	490.60215	(17120922)
650484.33	4191106.46	563.67663	(17013107)	650534.33	4191106.46	656.84530	(17013107)
650584.33	4191106.46	777.74701	(17013107)	650634.33	4191106.46	938.97029	(17013107)
650684.33	4191106.46	1160.92356	(17013107)	650734.33	4191106.46	1477.50172	(17013107)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***
INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650784.33	4191106.46	1976.77233	(17122903)	650834.33	4191106.46	2864.49602	(17121322)
650884.33	4191106.46	4378.41676	(17122608)	650934.33	4191106.46	9366.61575	(15110108)
650984.33	4191106.46	7383.22447	(17091405)	651034.33	4191106.46	3798.89126	(14010519)
651084.33	4191106.46	2270.69893	(14021603)	651134.33	4191106.46	1598.21105	(14022208)

651184.33	4191106.46	1192.52227 (14022208)	651234.33	4191106.46	929.40967 (14022208)
651284.33	4191106.46	749.09194 (14022208)	651334.33	4191106.46	619.71167 (14022208)
650334.33	4191156.46	387.71742 (17122903)	650384.33	4191156.46	437.40713 (17121322)
650434.33	4191156.46	494.86503 (17121322)	650484.33	4191156.46	559.53136 (17121322)
650534.33	4191156.46	636.75696 (17120702)	650584.33	4191156.46	740.21145 (17120702)
650634.33	4191156.46	837.19738 (17120702)	650684.33	4191156.46	1057.84539 (17122608)
650734.33	4191156.46	1371.64956 (17011201)	650784.33	4191156.46	1833.19469 (17121007)
650834.33	4191156.46	2584.27405 (17122609)	650884.33	4191156.46	3074.32439 (17121324)
650934.33	4191156.46	4286.10273 (15022408)	650984.33	4191156.46	4220.41300 (17041006)
651034.33	4191156.46	3096.13308 (17022407)	651084.33	4191156.46	1993.32372 (17120617)
651134.33	4191156.46	1428.62793 (14010220)	651184.33	4191156.46	1085.10388 (15010317)
651234.33	4191156.46	852.35225 (15122617)	651284.33	4191156.46	690.70093 (14010519)
651334.33	4191156.46	567.46914 (14010519)	650334.33	4191206.46	366.03432 (17120702)
650384.33	4191206.46	386.71283 (17120702)	650434.33	4191206.46	443.91935 (17122608)
650484.33	4191206.46	517.53844 (17122608)	650534.33	4191206.46	597.02678 (17123105)
650584.33	4191206.46	722.60427 (17011201)	650634.33	4191206.46	860.55535 (17120707)
650684.33	4191206.46	1039.32418 (17121007)	650734.33	4191206.46	1210.34620 (17122609)
650784.33	4191206.46	1261.28773 (17120624)	650834.33	4191206.46	1584.49318 (17123021)
650884.33	4191206.46	2092.14540 (17122724)	650934.33	4191206.46	2579.86099 (17122622)
650984.33	4191206.46	2589.01585 (17120207)	651034.33	4191206.46	2181.38969 (17022706)
651084.33	4191206.46	1748.05582 (17022407)	651134.33	4191206.46	1333.20460 (17121119)
651184.33	4191206.46	971.53164 (17120617)	651234.33	4191206.46	790.83991 (14022106)
651284.33	4191206.46	650.56818 (14010220)	651334.33	4191206.46	562.91752 (15010317)
650334.33	4191256.46	358.03725 (17123105)	650384.33	4191256.46	396.69732 (17011201)
650434.33	4191256.46	464.01604 (17011201)	650484.33	4191256.46	522.47144 (17120707)
650534.33	4191256.46	602.01891 (17121007)	650584.33	4191256.46	693.59724 (17020404)
650634.33	4191256.46	744.45659 (17120905)	650684.33	4191256.46	808.94814 (17043004)
650734.33	4191256.46	834.62763 (17120208)	650784.33	4191256.46	1016.25621 (17123021)
650834.33	4191256.46	1209.15157 (16022108)	650884.33	4191256.46	1615.94009 (17120219)
650934.33	4191256.46	1760.42565 (17120618)	650984.33	4191256.46	1749.87137 (17120207)
651034.33	4191256.46	1510.82460 (17121904)	651084.33	4191256.46	1389.40140 (17012601)
651134.33	4191256.46	1127.14886 (17022407)	651184.33	4191256.46	933.70237 (17123020)
651234.33	4191256.46	742.48156 (17121119)	651284.33	4191256.46	602.11489 (17120617)
651334.33	4191256.46	521.32785 (13020908)	650334.33	4191306.46	360.37495 (17120707)
650384.33	4191306.46	402.57445 (17122805)	650434.33	4191306.46	451.81882 (17121007)
650484.33	4191306.46	503.18209 (17020404)	650534.33	4191306.46	523.74545 (17120905)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)
650584.33	4191306.46	567.72468 (17043004)	650634.33	4191306.46	553.70772 (17120624)
650684.33	4191306.46	605.80139 (15022507)	650734.33	4191306.46	723.78376 (17123021)
650784.33	4191306.46	867.96395 (17020506)	650834.33	4191306.46	1024.38296 (17022607)

650884.33	4191306.46	1086.98405	(17120705)	650934.33	4191306.46	1285.28234	(17120618)
650984.33	4191306.46	1184.61681	(17012905)	651034.33	4191306.46	1218.89093	(17022508)
651084.33	4191306.46	1101.83378	(17021405)	651134.33	4191306.46	938.27934	(17012601)
651184.33	4191306.46	796.32378	(17022407)	651234.33	4191306.46	658.27240	(17123020)
651284.33	4191306.46	606.22550	(17121119)	651334.33	4191306.46	484.18473	(14012706)
650334.33	4191356.46	350.36978	(17020404)	650384.33	4191356.46	385.42601	(17020404)
650434.33	4191356.46	395.23940	(17120905)	650484.33	4191356.46	422.45302	(17043004)
650534.33	4191356.46	415.33457	(17043004)	650584.33	4191356.46	429.12509	(17121808)
650634.33	4191356.46	484.72032	(17123024)	650684.33	4191356.46	550.45209	(17123021)
650734.33	4191356.46	652.57338	(17020506)	650784.33	4191356.46	711.02206	(17122724)
650834.33	4191356.46	867.52803	(17120619)	650884.33	4191356.46	874.94831	(17012717)
650934.33	4191356.46	972.22830	(17120618)	650984.33	4191356.46	894.23497	(17021222)
651034.33	4191356.46	926.49287	(17121401)	651084.33	4191356.46	829.25988	(17121904)
651134.33	4191356.46	776.11739	(17022706)	651184.33	4191356.46	710.55620	(17122321)
651234.33	4191356.46	598.04391	(17022407)	651284.33	4191356.46	534.11687	(17022407)
651334.33	4191356.46	490.69143	(17123020)	650334.33	4191406.46	312.60713	(17120905)
650384.33	4191406.46	328.73110	(17043004)	650434.33	4191406.46	337.57981	(17043004)
650484.33	4191406.46	330.23956	(17120624)	650534.33	4191406.46	351.42655	(17120208)
650584.33	4191406.46	399.32272	(17121324)	650634.33	4191406.46	437.73321	(17123021)
650684.33	4191406.46	512.67707	(17122909)	650734.33	4191406.46	520.92554	(16020808)
650784.33	4191406.46	643.65377	(17022607)	650834.33	4191406.46	700.73911	(17120219)
650884.33	4191406.46	743.50032	(17012717)	650934.33	4191406.46	759.84235	(17120618)
650984.33	4191406.46	745.67777	(17012720)	651034.33	4191406.46	749.84418	(17120207)
651084.33	4191406.46	730.76512	(17022508)	651134.33	4191406.46	673.91858	(17021405)
651184.33	4191406.46	604.30551	(17012601)	651234.33	4191406.46	563.59083	(17122321)
651284.33	4191406.46	476.62356	(17120205)	651334.33	4191406.46	449.04182	(17022407)
650334.33	4191456.46	278.32021	(17043004)	650384.33	4191456.46	259.86973	(17120624)
650434.33	4191456.46	276.31287	(17121808)	650484.33	4191456.46	290.60341	(15022507)
650534.33	4191456.46	334.19856	(17121324)	650584.33	4191456.46	359.48980	(17123021)
650634.33	4191456.46	415.49726	(17122909)	650684.33	4191456.46	419.68920	(15022501)
650734.33	4191456.46	475.03501	(17122724)	650784.33	4191456.46	560.31455	(17120619)
650834.33	4191456.46	539.94378	(17120705)	650884.33	4191456.46	616.09710	(17012717)
650934.33	4191456.46	615.73736	(17121308)	650984.33	4191456.46	633.93517	(17012720)
651034.33	4191456.46	651.49573	(17120207)	651084.33	4191456.46	614.77715	(17022508)
651134.33	4191456.46	543.07925	(17121904)	651184.33	4191456.46	537.80679	(17021405)
651234.33	4191456.46	502.03011	(17012601)	651284.33	4191456.46	459.36502	(17122321)
651334.33	4191456.46	393.08895	(17120205)	650334.33	4191506.46	226.49876	(17120624)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: VOL8 ***

INCLUDING SOURCE(S): VOL8 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650384.33	4191506.46	236.58109	(17120208)	650434.33	4191506.46	249.00995	(15022507)
650484.33	4191506.46	283.73803	(17121324)	650534.33	4191506.46	302.49479	(17123021)

650584.33 4191506.46 344.32169 (17122909) 650634.33 4191506.46 356.07583 (17123104)
650684.33 4191506.46 385.45024 (17122724) 650734.33 4191506.46 452.65026 (17022607)
650784.33 4191506.46 494.40043 (17120219) 650834.33 4191506.46 456.05622 (15021408)
650884.33 4191506.46 506.96009 (17122622) 650934.33 4191506.46 526.60041 (17122408)
650984.33 4191506.46 545.88582 (17012720) 651034.33 4191506.46 544.97198 (17120207)
651084.33 4191506.46 505.36133 (17121401) 651134.33 4191506.46 487.27168 (17022508)
651184.33 4191506.46 459.00040 (17021405) 651234.33 4191506.46 427.42374 (17022706)
651284.33 4191506.46 415.71184 (17012601) 651334.33 4191506.46 382.81534 (17122321)
650334.33 4191556.46 206.47354 (17120208) 650384.33 4191556.46 218.80639 (17123024)
650434.33 4191556.46 243.98430 (17121324) 650484.33 4191556.46 259.41144 (17123021)
650534.33 4191556.46 290.68678 (17122909) 650584.33 4191556.46 307.06832 (17020506)
650634.33 4191556.46 311.34450 (16020808) 650684.33 4191556.46 338.95114 (17121506)
650734.33 4191556.46 399.36504 (17120619) 650784.33 4191556.46 400.05789 (17120219)
650834.33 4191556.46 419.04502 (17012717) 650884.33 4191556.46 447.07283 (17020802)
650934.33 4191556.46 458.90067 (17122408) 650984.33 4191556.46 475.64364 (17012720)
651034.33 4191556.46 449.47169 (17012905) 651084.33 4191556.46 444.82990 (17121401)
651134.33 4191556.46 447.66323 (17022508) 651184.33 4191556.46 391.88807 (17121904)
651234.33 4191556.46 400.63920 (17021405) 651284.33 4191556.46 362.26626 (17022706)
651334.33 4191556.46 345.88317 (17012601) 650934.45 4191196.80 2838.63477 (17122622)
650934.45 4191240.55 1972.10241 (17020802) 651071.58 4191520.04 495.41020 (17121401)
650517.18 4191503.06 286.02793 (17123024) 650941.63 4190991.11 3397.22937 (17011609)
650974.28 4190903.61 1703.62072 (17122917) 650989.95 4190868.34 1485.37846 (17122917)
651153.79 4190886.56 992.82084 (17012908) 651170.44 4190902.10 974.94755 (17122320)
651162.67 4190888.23 915.43020 (17120121) 651241.49 4191031.43 800.54665 (17121319)
650569.32 4190797.20 507.39671 (13010908) 650392.81 4190782.21 368.77909 (17121504)

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
SLINE1	1ST HIGHEST VALUE IS	66.71064 AT (651134.33, 4191156.46, 7.90, 7.90, 0.00)	DC
	2ND HIGHEST VALUE IS	66.62202 AT (651084.33, 4191156.46, 7.90, 7.90, 0.00)	DC
	3RD HIGHEST VALUE IS	66.51512 AT (651034.33, 4191156.46, 7.90, 7.90, 0.00)	DC
	4TH HIGHEST VALUE IS	65.46728 AT (651184.33, 4191156.46, 7.90, 7.90, 0.00)	DC
	5TH HIGHEST VALUE IS	59.37897 AT (651234.33, 4191506.46, 7.90, 7.90, 0.00)	DC
	6TH HIGHEST VALUE IS	56.68509 AT (651184.33, 4191206.46, 7.90, 7.90, 0.00)	DC
	7TH HIGHEST VALUE IS	56.12935 AT (651234.33, 4191556.46, 7.90, 7.90, 0.00)	DC
	8TH HIGHEST VALUE IS	55.68916 AT (651234.33, 4191456.46, 7.90, 7.90, 0.00)	DC
	9TH HIGHEST VALUE IS	52.48246 AT (651234.33, 4191406.46, 7.90, 7.90, 0.00)	DC
	10TH HIGHEST VALUE IS	51.66075 AT (650984.33, 4191156.46, 7.90, 7.90, 0.00)	DC
SLINE2	1ST HIGHEST VALUE IS	72.99059 AT (651184.33, 4191556.46, 7.90, 7.90, 0.00)	DC
	2ND HIGHEST VALUE IS	66.77519 AT (651084.33, 4191206.46, 7.90, 7.90, 0.00)	DC
	3RD HIGHEST VALUE IS	61.71921 AT (650984.33, 4191156.46, 7.90, 7.90, 0.00)	DC
	4TH HIGHEST VALUE IS	61.31025 AT (651084.33, 4191256.46, 7.90, 7.90, 0.00)	DC

5TH HIGHEST VALUE IS 60.02356 AT (651034.33, 4191156.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 58.29257 AT (651134.33, 4191356.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 58.19815 AT (651134.33, 4191406.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 56.95172 AT (651184.33, 4191506.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 56.00399 AT (651134.33, 4191456.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 55.76135 AT (651084.33, 4191306.46, 7.90, 7.90, 0.00) DC

SLINE3 1ST HIGHEST VALUE IS 57.69685 AT (651184.33, 4191156.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 56.49479 AT (651184.33, 4191056.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 51.91491 AT (651084.33, 4190756.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 51.30303 AT (651134.33, 4190906.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 48.99704 AT (651034.33, 4191156.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 48.57544 AT (650984.33, 4191156.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 47.97589 AT (651134.33, 4191156.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 46.55398 AT (651084.33, 4191156.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 45.70661 AT (651084.33, 4190706.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 44.84887 AT (651184.33, 4191006.46, 7.90, 7.90, 0.00) DC

SLINE4 1ST HIGHEST VALUE IS 69.05969 AT (651034.33, 4191156.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 65.63298 AT (651034.33, 4191056.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 64.23884 AT (651084.33, 4191056.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 63.36825 AT (651084.33, 4191106.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 62.38537 AT (651034.33, 4191106.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 59.13705 AT (651034.33, 4191006.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 58.65064 AT (651084.33, 4191006.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 56.89724 AT (651034.33, 4190656.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 55.95113 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 53.86142 AT (651084.33, 4191156.46, 7.90, 7.90, 0.00) DC

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

SLINE5 1ST HIGHEST VALUE IS 329.75837 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 308.23215 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 246.44126 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 236.10740 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 192.30783 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 187.49614 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 179.03957 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 173.55391 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 147.68191 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 134.01686 AT (650834.33, 4191106.46, 7.90, 7.90, 0.00) DC

STCK1 1ST HIGHEST VALUE IS 73.86946 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC

2ND HIGHEST VALUE IS 69.35845 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 65.24507 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 54.94294 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 41.73626 AT (650984.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 38.15943 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 34.80705 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 31.73297 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 29.05539 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 27.12934 AT (651034.33, 4191056.46, 7.90, 7.90, 0.00) DC

STCK2 1ST HIGHEST VALUE IS 71.21715 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 65.25557 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 62.04425 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 56.45501 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 42.65472 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 39.55732 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 38.72462 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 35.55039 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 34.23648 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 27.20179 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC

STCK3 1ST HIGHEST VALUE IS 83.38537 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 81.68443 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 57.98579 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 50.18913 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 49.25199 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 38.45695 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 35.15057 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 34.19752 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 30.41176 AT (650984.33, 4190956.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 29.63593 AT (650984.33, 4191056.46, 7.90, 7.90, 0.00) DC

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

STCK4 1ST HIGHEST VALUE IS 85.94264 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 80.97181 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 77.79532 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 51.93881 AT (650984.33, 4190956.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 43.69458 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 37.26442 AT (650974.28, 4190903.61, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 37.22357 AT (650984.33, 4190906.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 36.97379 AT (650934.33, 4190906.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 31.98316 AT (651034.33, 4190956.46, 7.90, 7.90, 0.00) DC

10TH HIGHEST VALUE IS 30.73819 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC

STCK5 1ST HIGHEST VALUE IS 455.21846 AT (650984.33, 4191056.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 423.48961 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 337.21933 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 236.33177 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 193.28036 AT (651034.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 155.42410 AT (651034.33, 4191106.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 146.41262 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 119.14763 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 107.64986 AT (650934.33, 4191156.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 105.14455 AT (651034.33, 4191006.46, 7.90, 7.90, 0.00) DC

STCK6 1ST HIGHEST VALUE IS 444.28079 AT (650984.33, 4191056.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 424.33010 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 348.21084 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 235.28833 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 191.29625 AT (651034.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 156.31297 AT (651034.33, 4191106.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 147.65828 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 117.64929 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 109.25076 AT (650934.33, 4191156.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 103.90167 AT (651034.33, 4191006.46, 7.90, 7.90, 0.00) DC

VOL1 1ST HIGHEST VALUE IS 349.53879 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 235.17717 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 198.44341 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 195.94267 AT (650784.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 139.35495 AT (650784.33, 4191106.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 125.10008 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 123.06297 AT (650834.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 122.57952 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 100.33041 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 99.24741 AT (650784.33, 4191006.46, 7.90, 7.90, 0.00) DC

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

VOL2 1ST HIGHEST VALUE IS 544.28643 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 261.09810 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 223.98145 AT (650784.33, 4191056.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 178.85491 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 162.06543 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 160.43857 AT (650784.33, 4191006.46, 7.90, 7.90, 0.00) DC

7TH HIGHEST VALUE IS 151.03431 AT (650784.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 134.47709 AT (650734.33, 4191056.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 106.71432 AT (650734.33, 4191106.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 100.92548 AT (650834.33, 4191106.46, 7.90, 7.90, 0.00) DC

VOL3 1ST HIGHEST VALUE IS 384.35836 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 189.53961 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 175.33751 AT (650784.33, 4191106.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 161.58321 AT (650784.33, 4191156.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 157.82943 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 156.64146 AT (650834.33, 4191156.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 131.57848 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 113.95331 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 111.12659 AT (650884.33, 4191156.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 87.46182 AT (650784.33, 4191056.46, 7.90, 7.90, 0.00) DC

VOL4 1ST HIGHEST VALUE IS 289.05893 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 281.02500 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 250.79032 AT (650834.33, 4190956.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 203.39352 AT (650784.33, 4191006.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 129.26955 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 117.18087 AT (650784.33, 4191056.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 114.98738 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 114.65649 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 113.91550 AT (650784.33, 4190956.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 105.16413 AT (650884.33, 4190906.46, 7.90, 7.90, 0.00) DC

VOL5 1ST HIGHEST VALUE IS 309.91652 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 297.42221 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 206.41264 AT (650834.33, 4191106.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 187.25722 AT (650834.33, 4191156.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 176.29346 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 173.99762 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 145.29317 AT (650884.33, 4191156.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 111.96689 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 103.58379 AT (650934.33, 4191156.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 101.17506 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
VOL6	1ST HIGHEST VALUE IS	274.48342 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
	2ND HIGHEST VALUE IS	253.15177 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
	3RD HIGHEST VALUE IS	234.97824 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC

4TH HIGHEST VALUE IS 225.46687 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 211.25364 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 153.46611 AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 115.30663 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 115.30244 AT (650834.33, 4190956.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 107.14474 AT (650984.33, 4190956.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 106.91530 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC

VOL7 1ST HIGHEST VALUE IS 670.37418 AT (650941.63, 4190991.11, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 476.77232 AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 263.87980 AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 251.71996 AT (650934.33, 4190956.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 219.43798 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 185.97031 AT (650984.33, 4190956.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 158.71793 AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 136.56735 AT (650884.33, 4190956.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 113.06415 AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 108.02096 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC

VOL8 1ST HIGHEST VALUE IS 420.30922 AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC
2ND HIGHEST VALUE IS 399.76261 AT (650984.33, 4191056.46, 7.90, 7.90, 0.00) DC
3RD HIGHEST VALUE IS 320.39928 AT (650984.33, 4191106.46, 7.90, 7.90, 0.00) DC
4TH HIGHEST VALUE IS 208.35313 AT (650934.33, 4191056.46, 7.90, 7.90, 0.00) DC
5TH HIGHEST VALUE IS 182.43461 AT (651034.33, 4191056.46, 7.90, 7.90, 0.00) DC
6TH HIGHEST VALUE IS 147.39263 AT (651034.33, 4191106.46, 7.90, 7.90, 0.00) DC
7TH HIGHEST VALUE IS 132.84492 AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC
8TH HIGHEST VALUE IS 110.07763 AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC
9TH HIGHEST VALUE IS 101.07441 AT (650934.33, 4191156.46, 7.90, 7.90, 0.00) DC
10TH HIGHEST VALUE IS 100.08731 AT (651034.33, 4191006.46, 7.90, 7.90, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR
*** AERMOD - VERSION 19191 *** *** C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop *** 12/20/23
*** AERMET - VERSION 18081 *** *** *** 19:55:06

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID
SLINE1	1ST HIGH VALUE IS	911.25707	ON 17011609: AT (651184.33, 4191156.46, 7.90, 7.90, 0.00) DC
SLINE2	1ST HIGH VALUE IS	956.31592	ON 17011609: AT (651184.33, 4191556.46, 7.90, 7.90, 0.00) DC

SLINE3 HIGH 1ST HIGH VALUE IS 750.60547 ON 17011609: AT (651034.33, 4190556.46, 7.90, 7.90, 0.00) DC

SLINE4 HIGH 1ST HIGH VALUE IS 861.53218 ON 17123009: AT (651034.33, 4190706.46, 7.90, 7.90, 0.00) DC

SLINE5 HIGH 1ST HIGH VALUE IS 2568.98016 ON 14012017: AT (650984.33, 4191006.46, 7.90, 7.90, 0.00) DC

STCK1 HIGH 1ST HIGH VALUE IS 994.48351 ON 15073020: AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC

STCK2 HIGH 1ST HIGH VALUE IS 960.04145 ON 14052119: AT (650834.33, 4191056.46, 7.90, 7.90, 0.00) DC

STCK3 HIGH 1ST HIGH VALUE IS 930.84678 ON 14080319: AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC

STCK4 HIGH 1ST HIGH VALUE IS 914.21085 ON 16050119: AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC

STCK5 HIGH 1ST HIGH VALUE IS 11645.53770 ON 15110108: AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC

STCK6 HIGH 1ST HIGH VALUE IS 11723.30715 ON 15110108: AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC

VOL1 HIGH 1ST HIGH VALUE IS 5847.71862 ON 14120709: AT (650884.33, 4191056.46, 7.90, 7.90, 0.00) DC

VOL2 HIGH 1ST HIGH VALUE IS 10603.84026 ON 15112209: AT (650784.33, 4191056.46, 7.90, 7.90, 0.00) DC

VOL3 HIGH 1ST HIGH VALUE IS 11150.26728 ON 15011010: AT (650834.33, 4191106.46, 7.90, 7.90, 0.00) DC

VOL4 HIGH 1ST HIGH VALUE IS 9311.68187 ON 16020809: AT (650834.33, 4191006.46, 7.90, 7.90, 0.00) DC

VOL5 HIGH 1ST HIGH VALUE IS 14308.06862 ON 16010811: AT (650884.33, 4191106.46, 7.90, 7.90, 0.00) DC

VOL6 HIGH 1ST HIGH VALUE IS 14612.88071 ON 15121209: AT (650884.33, 4191006.46, 7.90, 7.90, 0.00) DC

VOL7 HIGH 1ST HIGH VALUE IS 12069.98919 ON 15121209: AT (650934.33, 4191006.46, 7.90, 7.90, 0.00) DC

VOL8 HIGH 1ST HIGH VALUE IS 9366.61575 ON 15110108: AT (650934.33, 4191106.46, 7.90, 7.90, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART

*** MODELOPTs: NonDFAULT CONC FLAT RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 22 Warning Message(s)
A Total of 971 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 442 Calm Hours Identified

A Total of 529 Missing Hours Identified (1.21 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

SO W320	1780	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1781	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1782	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1783	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1784	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1785	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1786	VPARM: Input Parameter May Be Out-of-Range for Parameter	SZINIT
SO W320	1787	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1788	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1789	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	1790	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	2421	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	2421	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	
MX W420	34276	METQA: Wind Speed Out-of-Range. KURDAT =	16112904
MX W420	34282	METQA: Wind Speed Out-of-Range. KURDAT =	16112910
MX W420	34288	METQA: Wind Speed Out-of-Range. KURDAT =	16112916
MX W420	34294	METQA: Wind Speed Out-of-Range. KURDAT =	16112922
MX W420	34300	METQA: Wind Speed Out-of-Range. KURDAT =	16113004
MX W420	40768	METQA: Wind Speed Out-of-Range. KURDAT =	17082616
MX W420	40792	METQA: Wind Speed Out-of-Range. KURDAT =	17082716
MX W420	40798	METQA: Wind Speed Out-of-Range. KURDAT =	17082722
MX W420	40804	METQA: Wind Speed Out-of-Range. KURDAT =	17082804

****
*** AERMOD Finishes Successfully ***
****

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Appendix 4 – HARP2 Output Files:

HARP2 - HRACalc (dated 22118) 12/20/2023 11:02:19 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
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
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
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 acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-

977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Acute Non-CancerNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Acute Non-CancerNCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/20/2023 11:02:39 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
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: True
Dermal: True
Mother's milk: True
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
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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 chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Chronic Non-CancerNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Chronic Non-CancerNCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/20/2023 10:10:05 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 70

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: 0
16 to 70 Years Bin: 54

****
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: True
Dermal: True
Mother's milk: True
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

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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 breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Residential CancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Residential CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 12/20/2023 11:03:59 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 40

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 40

****
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: True
Dermal: True
Mother's milk: True
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

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
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 breakdown by pollutant and receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Workplace CancerCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\Smith\Dropbox\My PC (DESKTOP-977GSBU)\Documents\HRA\Lathrop Singh\HARP2\LATHROP SINGH\hra\Workplace CancerCancerRiskSumByRec.csv
HRA ran successfully

APPENDIX C

Cultural Resources Assessment

CULTURAL RESOURCE ASSESSMENT

FOR THE SINGH PETROLEUM

PROJECT, CITY OF LATHROP,

SAN JOAQUIN COUNTY, CALIFORNIA

Prepared by

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Prepared for

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El Dorado Hills, CA 95762

January 23, 2023
(Job #22-095)

INTRODUCTION

Project Location

The Project site is located in section 14 of Township 1 South, Range 6 East. It includes two distinct planning boundaries defined below.

Project Site *(or* ***Annexation Area)*** – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.

Development Area – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road (Figures 1 through 3).

Existing Site Uses

The Project site is comprised of flat land with ruderal grasses, fallow ground, a few trees (located primarily along the northern and eastern boundary of the Project site), an abandoned structure, and impervious area. The footprint of the abandoned structure is approximately 1,430 square feet (sf) and the impervious area is approximately 2,500 sf.

Existing Surrounding Uses

The Project site is bordered by San Joaquin County land to the north, west, and south, while the Project site borders land located within the current boundaries of the City of Lathrop to the east. The City of Stockton city limits are located approximately 1,000 feet to the northeast of the Project site. The Project site is primarily bounded by undeveloped and residential land to the south, undeveloped land to the west, and agricultural and residential land to the north. The Project site is currently located within San Joaquin County. The Project site is outside the Lathrop city limits, but within the City's Primary Sphere of Influence (SOI). The setting of the Project site is illustrated in an aerial view on Figure 4.

General Plan Land Use Designations

The Project site is currently designated Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map and Agriculture/General (A/G) by the San Joaquin County General Plan Land Use Map. The FC designation generally allows building densities of 1-2 stories and building intensity up to 60% site area coverage. This classification of commercial activity is somewhat of

a hybrid in that it caters to uses which serve the regional market for specialized sales and service activities as well as uses which cater more strictly to the needs of the highway traveler. Specialized activities might include factory store centers, discount centers for home furniture, appliances, home improvement and sports, and commercial recreation centers for such activities such as bowling, skating, tennis, racquetball, water-oriented amusements and miniature golf. Uses which cater to the highway traveler include motels, restaurants, auto and truck sales and service, fuel stations, auto repair, RV sales and service, boat sales and service, sports equipment, bank service, truck stops and terminals, bus stops and facilities for overnight camping and RV parking.

The A/G designation provides for large-scale agricultural production and associated processing, sales, and support uses. The A/G Designation generally applies to areas outside areas planned for urban development where soils are capable of producing a wide variety of crops and/or support grazing. Typical building types include low-intensity structures associated with farming and agricultural processing and sales. The A/G designation provides for the following commercial agricultural operations and associated support uses:

- Crop production, grazing, and livestock raising facilities
- Agricultural processing facilities (e.g., canning operations, stockyards, feedlots)
- Agricultural support and sales (e.g., feed/grain storage, crop spraying, sale yards)
- Single-family detached dwellings
- Farm-employee housing and farm labor camps
- Accessory second units and ancillary residential structures
- Compatible public, quasi-public, and special uses
- Natural open space areas

The proposed Project would require a General Plan Amendment to the City's Land Use Map to change land uses on the Project site. Changes to the Land Use Map would include changing the designation for APN 191-250-06 from A/G (County) to FC (City).

Surrounding General Plan Designations

Within San Joaquin County, lands to the west of the Project site are designated Agriculture/General (A/G). Lands to the north, east, and south of the Project site are designated as Freeway Commercial (FC) by the City of Lathrop General Plan Land Use Map.

The Project site is currently zoned for Freeway Service Commercial (C-FS) and Agricultural (AG40) uses by the San Joaquin County Zoning Code (Development Title). The C-FS zone provides for a wide range of manufacturing, distribution and storage uses which have moderate to high nuisance characteristics such as noise, heat, glare, odor, and vibration, and which require segregation from other land uses, and/or may require outside storage areas. New lots in this zone are a minimum of 10,000 sf. The AG-40 zone provides for the continuation of commercial agricultural enterprises.

Project Description

The principal objective of the proposed Project is the approval of the proposed Project that includes development of the 19.63-acre Development Area for regional travel serving uses. Implementation of the Project would involve the development of fueling facilities, traveler amenities, and parking facilities for passing motorists and commercial truck operators.

The proposed Project includes the following amenities:

- Fueling facilities offering 8 truck fuel islands and 8 car fuel islands;
- Fuel tanks for both trucks and auto will be above ground with chain link fencing with privacy slats around the tanks.
- 246 truck/trailer spaces, 351 passenger vehicle spaces, 4 fueling and gas/diesel spaces, 18 electric vehicle spaces; and 16 ADA spaces;
- A 13,875-sf full service 4 bay truck repair shop;
- A 16,499-sf building that will include the following:
    - Office space;
    - Restroom facilities, 8 showers;
    - Laundry facility with 12 sets of washer/dryer;
    - Retail convenience store that will offer everyday products from truck accessories, toiletry supplies and a number of products for quick shopping needs for traveling and commuter customer base;
    - Dog run area enclosed with a metal fence
    - Two (2) quick service restaurants, one with a drive-thru option.
    - Seating area for patrons to dine.

Phase I Development

Phase I of the Project will develop 18.61 acres out of the 19.63-acre Development Area. The Phase I area is designed on an interim basis until the future realignment of Manthey Road, future Roth Road, and interchange improvements for I-5 are determined. Phase I will account for the future right-of-way (ROW) dedication for these improvements. The 2.79-acre piece of property between Manthey Road and I-5 will not be part of the Phase I Project site is identified as future ROW for future interchange improvements. Figure 5 illustrates the Phase I project work.

Phase II Development

Phase II of the Project includes: (1) the realignment of Manthey Road from the existing configuration to run along the western boundary of the Project site with a new connection to Roth Road, (2) improvement of Roth Road to the north of the Project site, and (3) improvements of the interchange for I-5. No new buildings are proposed as part of the Phase II development. Portions of Phase I site and circulation-related improvements will be removed which will allow the future improvements to be constructed. Additional parking will also be added for the auto portion of the development to incorporate the abandonment of the old Manthey Road.

Other Considerations

The Project site is currently within San Joaquin County, and within the City of Lathrop's Primary Sphere of Influence (SOI). The proposed Project would result in the annexation of APN 191-25014 and 191-250-06 (which includes the Project site) into the City of Lathrop.

The Project site is currently zoned for Freeway Service Commercial (C-FS) and Agricultural (AG-40) uses by the County. The San Joaquin County Local Agency Formation Commission (LAFCO) will require the Project site to be pre-zoned by the City of Lathrop in conjunction with the proposed annexation. The City's pre-zoning will follow the land use designation intent of General Plan Land Use Map (Freeway Commercial), as such the site will be zoned Highway Commercial (CH). The pre-zoning would go into effect upon annexation into the City of Lathrop.

Travel Plaza or Truck Stop is listed as a Conditional Use Permit in the Highway Commercial (HC) Zoning District (Section 17.44.050). As such, the Project would require the approval of a Conditional Use Permit (CUP) prior to Project approval.

Pursuant to Chapter 17.100 of the City's Zoning Code, the Project would require a site review prior to Project approval.

Circulation

Planned and previously-approved development projects within San Joaquin County, the City of Manteca, and the City of Lathrop will cause the Roth Road / I-5 interchange to operate at an unacceptable level. To address this, the City of Lathrop is working with the California Department of Transportation (Caltrans) to improve the Roth Road / I-5 interchange and realign Manthey Road.

These planned interchange improvements are not a part of the proposed Project. The intent for the proposed Project is that the site would be developed in Phase I, including the buildings (i.e., convenience store, including tenant spaces and the truck repair building, restrooms, etc.) and that in Phase II, the site would be modified to accommodate the planned Manthey Road realignment. The buildings developed during Phase I would remain and will not be modified as part of Phase II. As discussed below. Phase II would include circulation improvements related to site access, off-street parking, etc. Ultimately, the Manthey Road realignment will be triggered at a future point and as determined by the City via the Transportation Monitoring Program (TMP).

In Phase I all vehicles will enter the site via the two driveways on Manthey Road. Passenger vehicles will exit on the north side of the property from a driveway located on the future Roth Road. Trucks will have two exits located at the southern driveway on Manthey Road and the driveway on future Roth Road. The truck exit on Manthey Road will reduce the number of trucks using the exit only on future Roth Road where the auto exit driveway will be located.

In Phase II all vehicles will entire the site via two driveways on the future Roth Road. The interim driveways included in Phase I will be abandoned. To minimize trucks/auto vehicle conflict, the

ingress/egress were placed on different streets. Trucks will access/exit the site from realigned Manthey Road, and autos will access/exit the site from Roth Road only.

Infrastructure

The construction of onsite and offsite infrastructure improvements would be required to accommodate development of the proposed Project, as described below.

Electricity, gas and telephone services are located immediately adjacent to the Project site along Manthey Road. Development of the proposed Project would not require the expansion of these facilities or any off-site improvements. Water and sewer connections would need to be extended onsite to serve the Project. Storm water service will be provided by a private storm water infiltration basin located within the Project boundaries.

Water services for the proposed Project would be extended to the Project site from existing services from the intersection of Harlan Road and Roth Road east of I-5. The water lines would need to be extended west under the overpass along Roth Road to the Project site.

A sewer would be extended from the Project site to the intersection of Harlan Road and Roth Road east of I-5. The sewer lines would need to be extended west under the overpass along Roth Road to the Project site. The sanitary sewer line would be constructed within the existing ROW and no additional off-site ROW would be required for Project implementation.

A 7.5-foot-deep private storm water retention basin would be located in the southern portion of the Project site. A landscape strip would surround the retention basin, along a 3:1 slope. Storm drain lines for the proposed Project would be extended throughout the Project site to the retention basin.

The general area where all of this work will take place is illustrated on Figure 6. This is based on the Lathrop 7.5' topographic map published by the USGS.

Requested Entitlements

The City of Lathrop

The City will be the Lead Agency for the proposed Project, pursuant to the State Guidelines for Implementation of CEQA, Section 15050. Actions that would be required from the City include, but are not limited to the following:

- Certification of the EIR;
- Adoption of the Mitigation Monitoring and Reporting Program;
- General Plan Amendment from A/G (County) to FC for APN 191-250-06;
- Annexation approval and the annexation of the subject parcels by the City of Lathrop and San Joaquin Local Agency Formation Commission;

- Zoning Amendments and Prezoning for annexation of the Project site;
- Approval of CUP;
- Approval of Site Plan Review;
- Approval of Improvement Plans;
- Approval of Grading Plans;
- Approval of Building Permits;
- Approval of Project Utility Plans.

Other Public Agencies

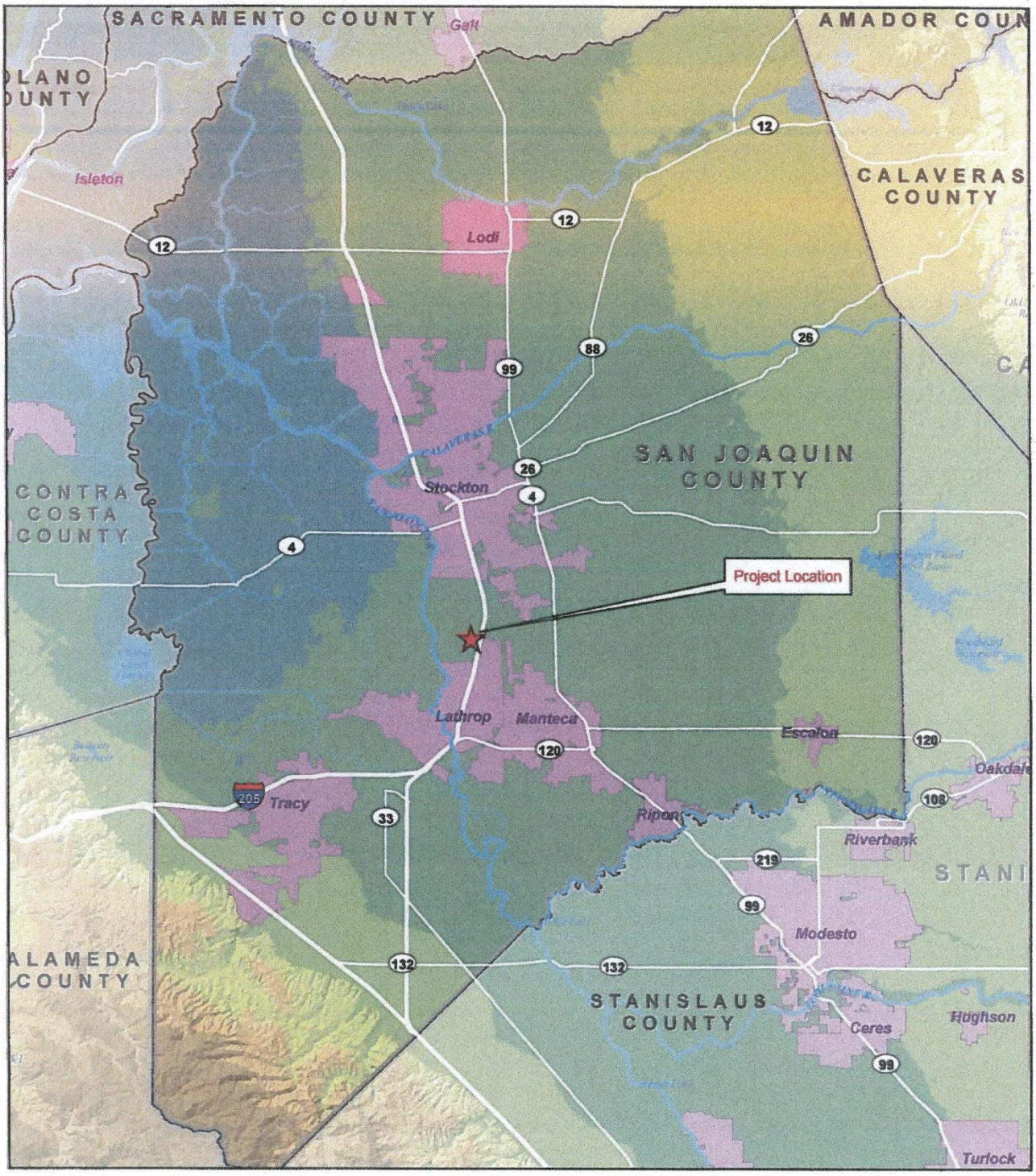
The following agencies may be required to issue permits or approve certain aspects of the proposed Project. Other governmental agencies that may require approval include, but are not limited to, the following:

- San Joaquin LAFCo - Annexation;
- San Joaquin Council of Governments (SJCOG) - Compliance with Airport Land Use Compatibility Plan (ALUCP) and San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP)Compliance;
- San Joaquin Valley Air Pollution Control District (SJVAPCD) - Approval of construction related air quality permits. Additionally, as an industrial development, the Project may be subject to Indirect Source Review (ISR) by the SJVAPCD;
- Central Valley Regional Water Quality Control Board (CVRWQCB) - Storm Water Pollution Prevention Plan (SWPPP) approval prior to construction activities pursuant to the Clean Water Act and water quality certification pursuant to Section 401 of the Clean Water Act;
- Lathrop Manteca Fire District - Plan check of the site plan and roadway improvements for adequate emergency vehicle access and fire flow capabilities.

Cultural Resources

The project included a records search through the Central California Information Center of the California Historical Resources Information System, a complete field survey of the Project, and preparation of a site inventory form for the former site of a residence in the Project Area, and resource evaluation. The City of Lathrop also conducted Native American consultation for the project.

Melinda A. Peak, senior historian/archeologist with Peak & Associates, Inc. served as principal investigator for the study, with archeologist Michael Lawson completing the field surveys (resumes, Appendix 1).



SINGH PETROLEUM INVESTMENT PROJECT

Figure 1. Regional Map

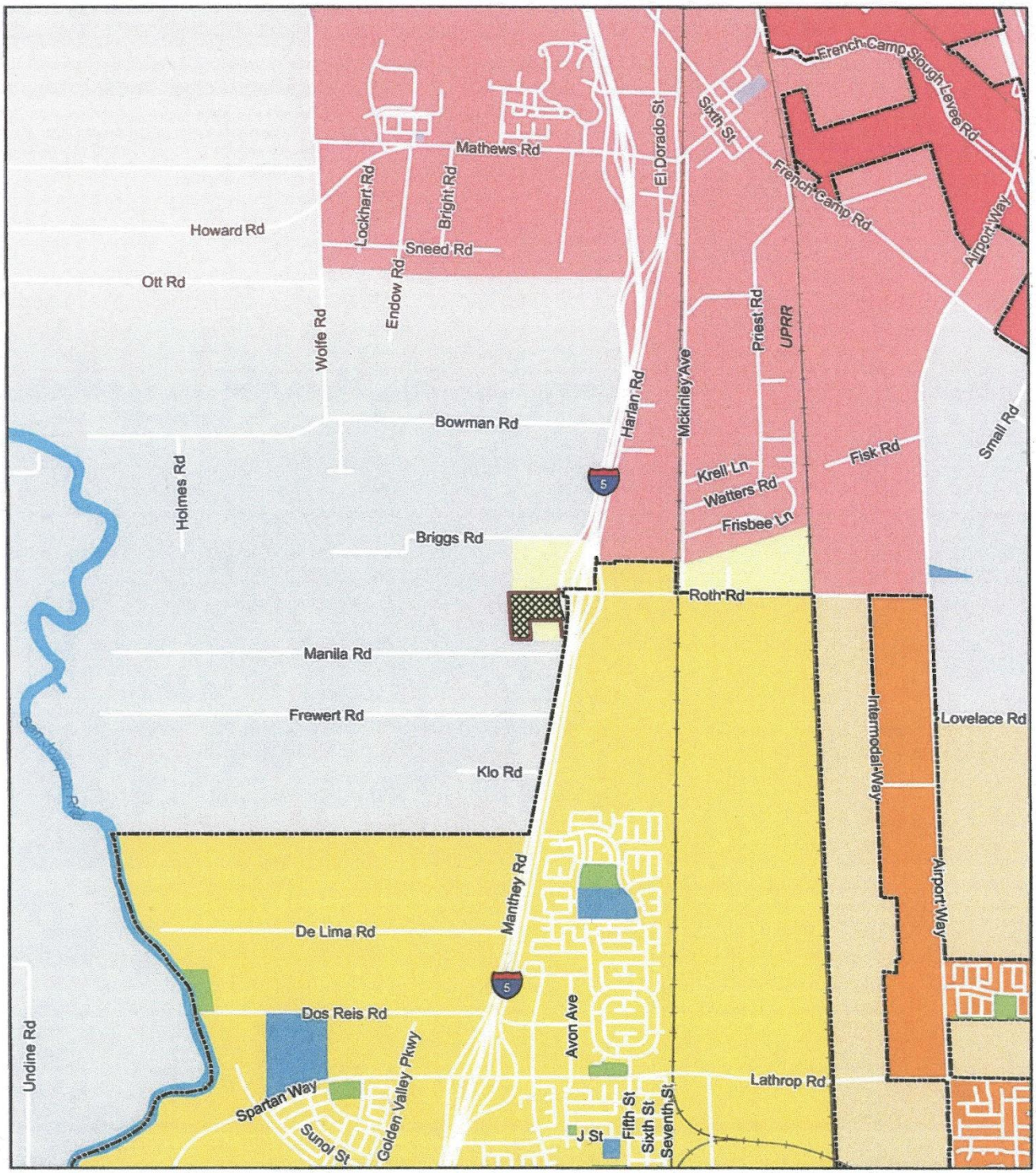
Legend

- Project Location
- Incorporated Area
- County Boundary

0 2½ 5
Miles

Sources: California State Geoportal. Map date: December 13, 2022

De Novo Planning Group



Legend

- Project Site / Annexation Area
- Development Area
- School
- Park
- City of Lathrop
- City of Manteca
- City of Stockton
- Lathrop SOI
- Manteca SOI
- Stockton SOI

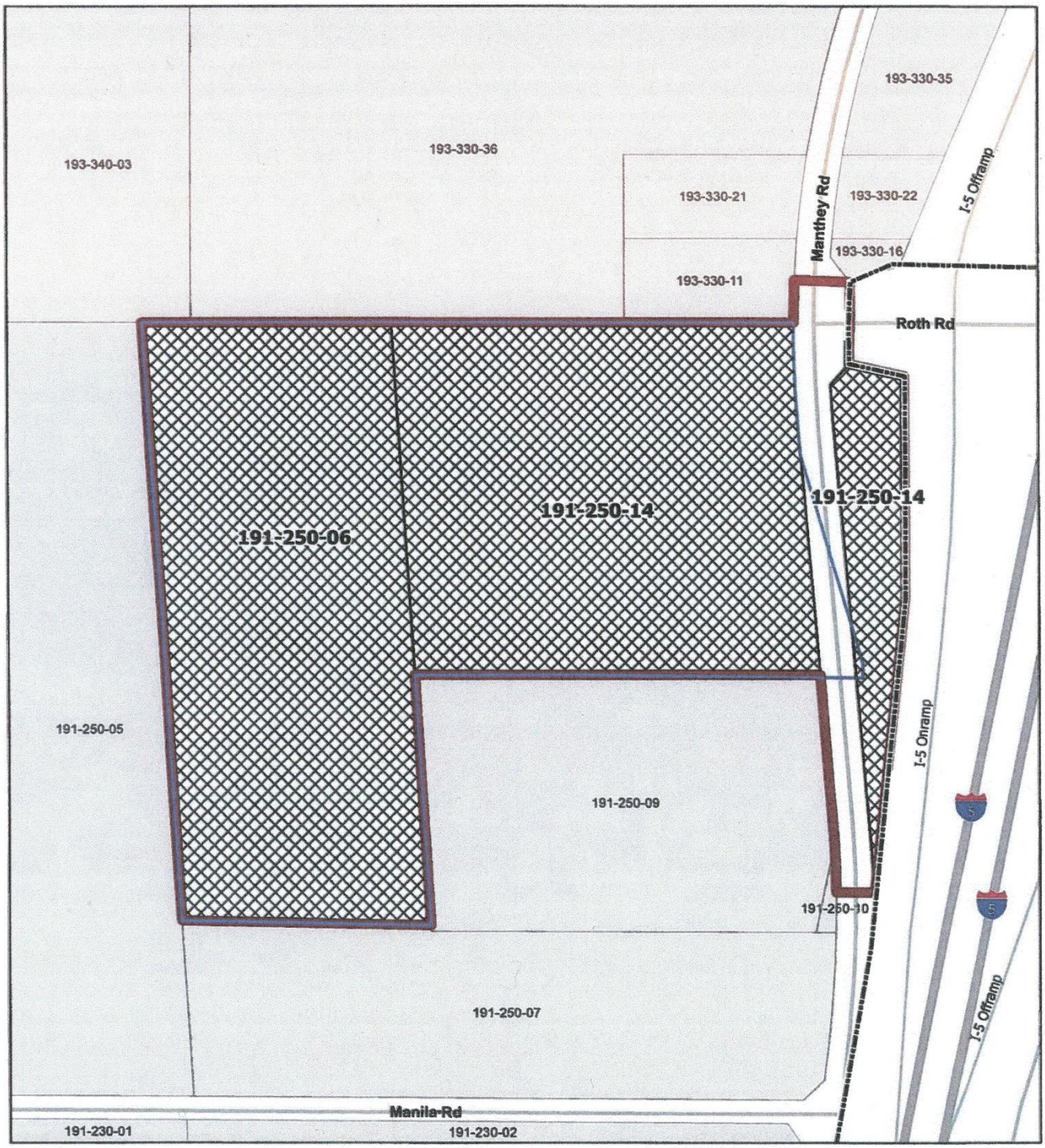
SINGH PETROLEUM INVESTMENT PROJECT

Figure 2. Vicinity Map

0 1,000 2,000 Feet

Sources: San Joaquin County Assessor parcels, July 2022; San Joaquin County GIS. Map date: December 13, 2022.

De Novo Planning Group



Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Parcels to be Annexed
- Other Assessor Parcels

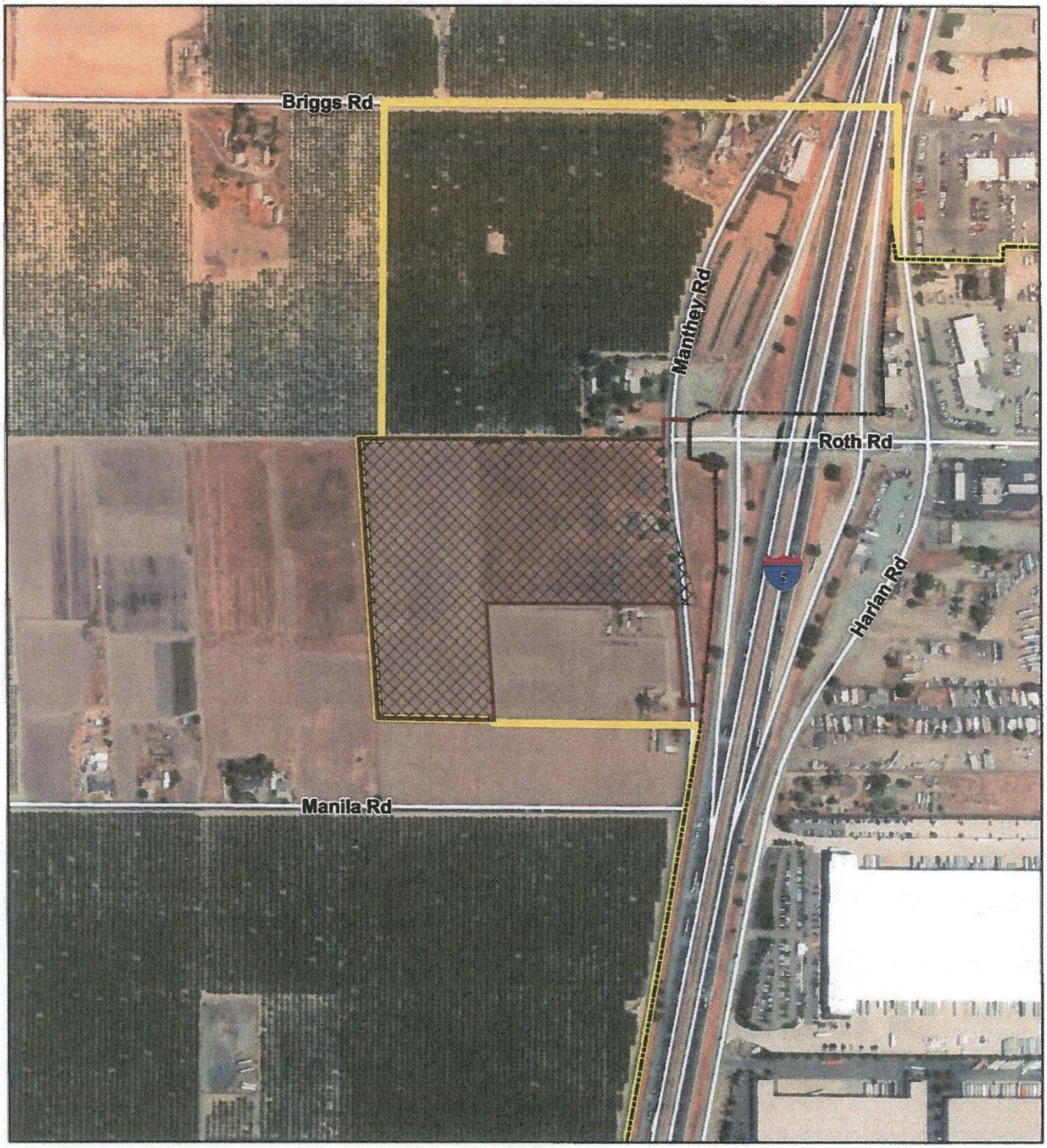
SINGH PETROLEUM INVESTMENTS PROJECT

Figure 3. Assessor Parcel Map

0 100 200
Feet

Sources: San Joaquin County GIS, ArcGIS Online World Imagery Map Service. Map date: December 13, 2022

De Novo Planning Group



Legend

- Project Site / Annexation Area
- Development Area
- Lathrop City Limits
- Lathrop Sphere of Influence

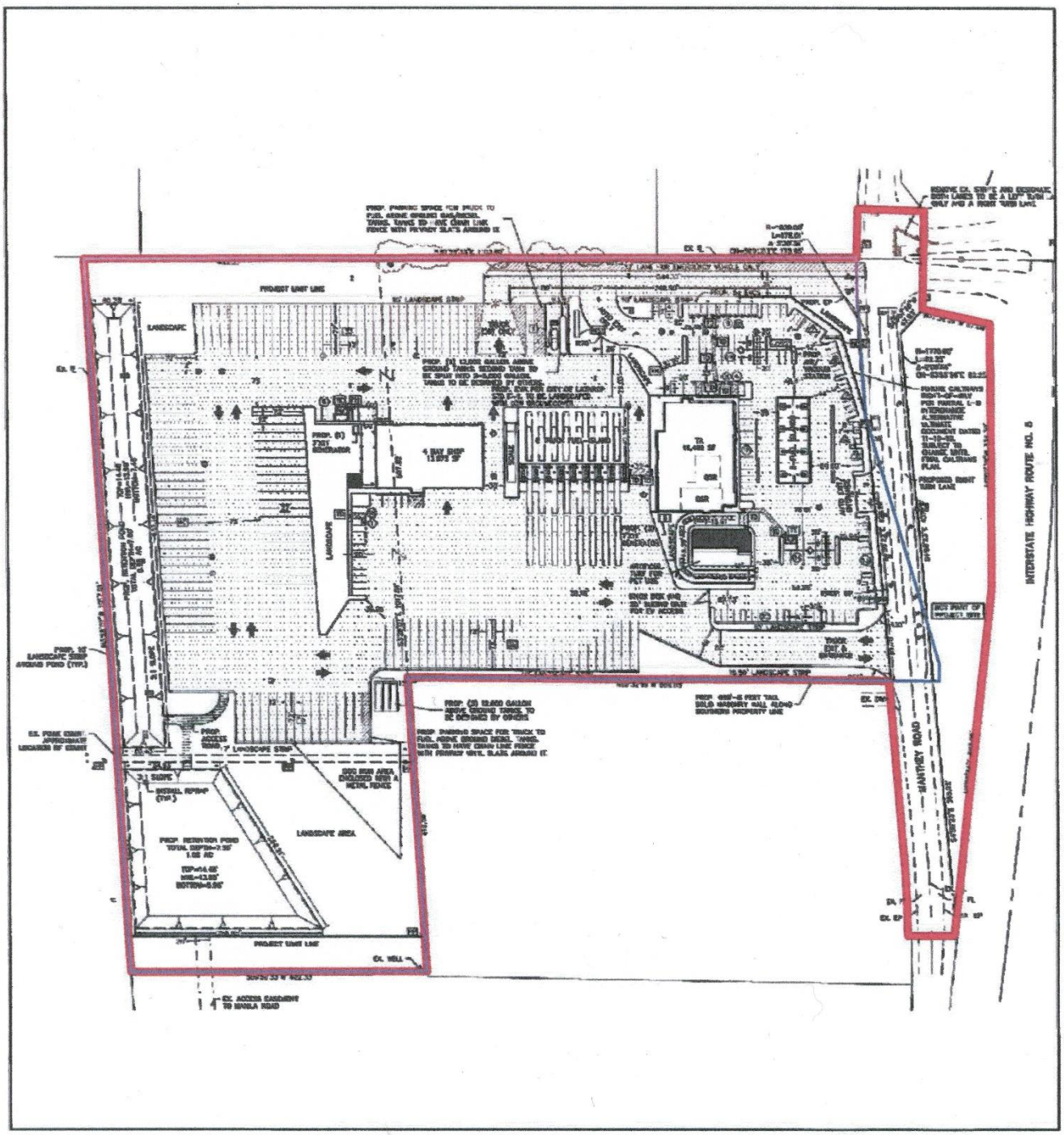
SINGH PETROLEUM INVESTMENTS PROJECT

Figure 4. Aerial View of Project

0 250 500
Feet

Sources: San Joaquin County GIS, ArcGIS Online World Imagery Map Service. Map date: December 13, 2022.

De Novo Planning Group



SINGH PETROLEUM INVESTMENT PROJECT

FIGURE 5. SITE PLAN PHASE I - INTERIM

Legend

- Project Site/Annexation Area
- Development Area

0 50 100 200

Feet

Source: Wang Engineers, Inc. 9-13-2022 Map date: December 14, 2022

The Novo Planning Group

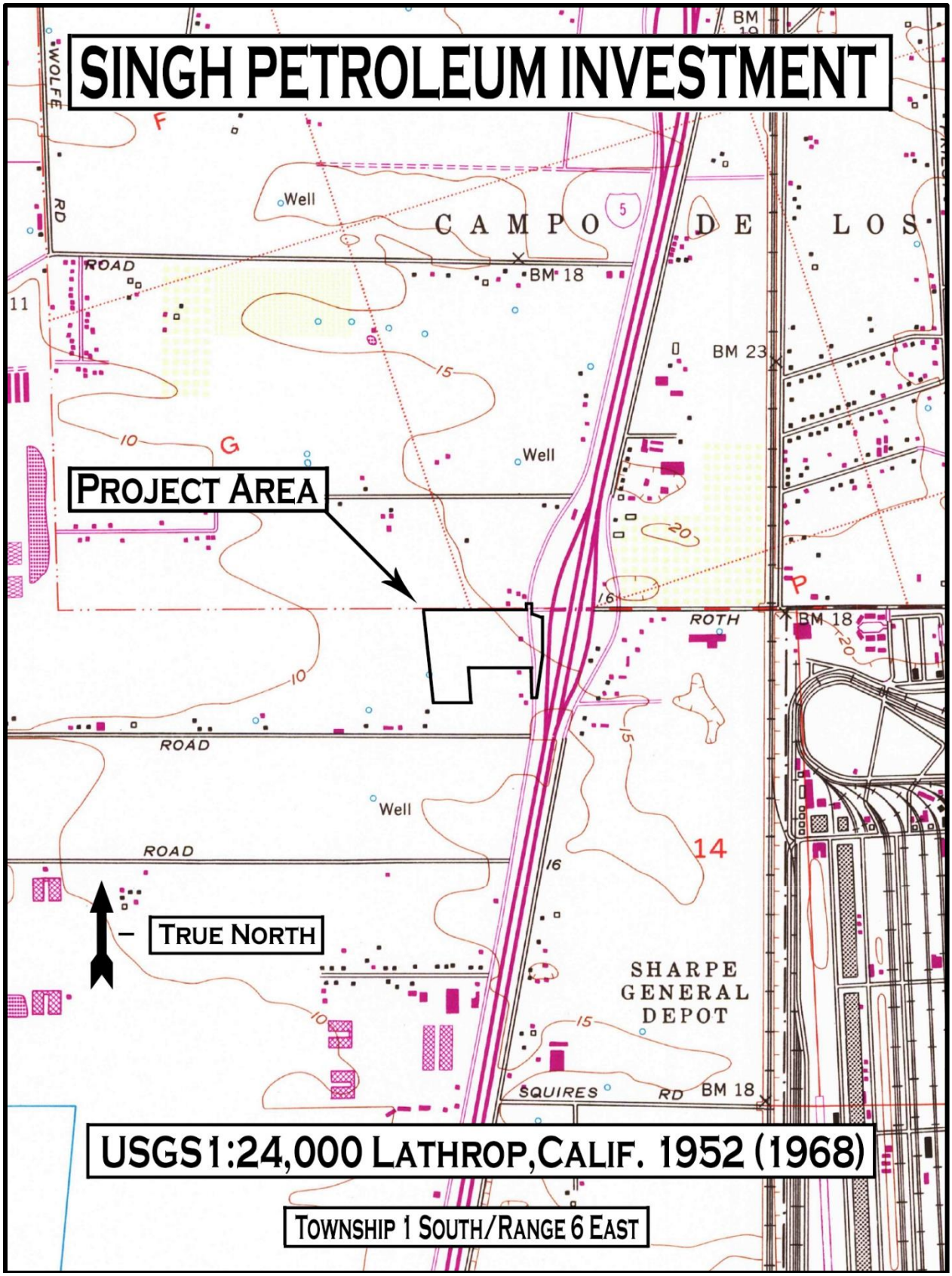

SINGH PETROLEUM INVESTMENT
PROJECT AREA
TRUE NORTH
USGS 1:24,000 LATHROP, CALIF. 1952 (1968)
TOWNSHIP 1 SOUTH/RANGE 6 EAST
CAMPO DE LOS
SHARPE GENERAL DEPOT
WOLFE RD
ROAD
ROTH
SQUIRES RD
Well
BM 18
BM 23
14

Figure 6

C. 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; or

D. Has yielded, or may be likely to yield, information important in prehistory or history.

In addition, the CEQA Guidelines, Section 15064.5(a) (4) states:

The fact that a resource is not listed in, or determined to be eligible for listing in the California Register of Historical Resources, not included in a local register of historical resources (pursuant to section 5020.1(k) of the Public Resources Code), or identified in an historical resources survey (meeting the criteria in section 5024.1(g) of the Public Resources Code) does not preclude a lead agency from determining that the resource may be an historical resource as defined in Public Resources Code section 5020.1(j) or 5024.1.

California Health and Safety Code Sections 7050.5, 7051, and 7054

These sections collectively address the illegality of interference with human burial remains, as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction, and establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures.

California Public Resources Code Section 15064.5(e)

This law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction. The section establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project and establishes the Native American Heritage Commission as the entity responsible to resolve disputes regarding the disposition of such remains.

Assembly Bill 52

Assembly Bill (AB) 52 establishes a formal consultation process for California tribes as part of CEQA and equates significant impacts on tribal cultural resources with significant environmental impacts. AB 52 defines a "California Native American Tribe" as a Native American tribe located in California that is on the contact list maintained by the Native American Heritage Commission. AB 52 requires formal consultation with California Native American Tribes prior to determining the level of environmental document if a tribe has requested to be informed by the lead agency of proposed projects. AB 52 also requires that consultation address project alternatives, mitigation measures, for significant effects, if requested by the California Native American Tribe, and that consultation be considered concluded when either the parties agree to measures to mitigate or avoid a significant effect, or the agency concludes that mutual agreement cannot be reached. Under AB 52, such measures shall be recommended for inclusion in the environmental document and

adopted mitigation monitoring program if determined to avoid or lessen a significant impact on a tribal cultural resource.

CULTURAL SETTING

Prehistory

The Central Valley region was among the first in the state to attract intensive fieldwork, and research has continued to the present day. This has resulted in a substantial accumulation of data. In the early decades of the 1900s, E.J. Dawson explored numerous sites near Stockton and Lodi, later collaborating with W.E. Schenck (Schenck and Dawson 1929). By 1933, the focus of work was directed to the Cosumnes locality, where survey and excavation studies were conducted by the Sacramento Junior College (Lillard and Purves 1936). Excavation data, in particular from the stratified Windmiller site (CA-Sac-107), suggested two temporally distinct cultural traditions. Later work at other mounds by Sacramento Junior College and the University of California, Berkeley, enabled the investigators to identify a third cultural tradition, intermediate between the previously postulated Early and Late Horizons.

The three-horizon sequence, based on discrete changes in ornamental artifacts and mortuary practices, as well as on observed differences in soils within sites (Lillard, Heizer and Fenenga 1939), was later refined by Beardsley (1954). An expanded definition of artifacts diagnostic of each time period was developed, and its application extended to parts of the central California coast. Traits held in common allow the application of this system within certain limits of time and space to other areas of prehistoric central California.

The Windmiller Culture (Early Horizon) is characterized by ventrally-extended burials (some dorsal extensions are known), with westerly orientation of heads; a high percentage of burials with grave goods; frequent presence of red ocher in graves; large projectile points, of which 60 percent are of materials other than obsidian; rectangular *Haliotis* beads; *Olivella* shell beads (types A1a and L); rare use of bone; some use of baked clay objects; and well-fashioned charmstones, usually perforated.

The Cosumnes Culture (Middle Horizon) displays considerable changes from the preceding cultural expression. The burial mode is predominately flexed, with variable cardinal orientation and some cremations present. There are a lower percentage of burials with grave goods, and ocher staining is common in graves. *Olivella* beads of types C1, F and G predominate, and there is abundant use of green *Haliotis* sp. rather than red *Haliotis* sp. Other characteristic artifacts include perforated and canid teeth; asymmetrical and “fishtail” charmstones, usually unperforated; cobble mortars and evidence of wooden mortars; extensive use of bone for tools and ornaments; large projectile points, with considerable use of rock other than obsidian; and use of baked clay.

Hotchkiss Culture (Late Horizon) -- The burial pattern retains the use of the flexed mode, and there is wide spread evidence of cremation, lesser use of red ocher, heavy use of baked clay, *Olivella* beads of Types E and M, extensive use of *Haliotis* ornaments of many elaborate shapes and forms,

shaped mortars and cylindrical pestles, bird-bone tubes with elaborate geometric designs, clam shell disc beads, small projectile points indicative of the introduction of the bow and arrow, flanged tubular pipes of steatite and schist, and use of magnesite (Moratto 1984:181-183). The characteristics noted are not all-inclusive, but cover the more important traits.

Schulz (1981), in an extensive examination of the central California evidence for the use of acorns, used the terms Early, Middle and Late Complexes, but the traits attributed to them remain generally the same. While it is not altogether clear, Schulz seemingly uses the term "Complex" to refer to the particular archeological entities (above called "Horizons") as defined in this region. Ragir's (1972) cultures are the same as Schulz's complexes.

Bennyhoff and Hughes (1984) have presented alternative dating schemes for the Central California Archeological Sequence. The primary emphasis is a more elaborate division of the horizons to reflect what is seen as cultural/temporal changes within the three horizons and a compression of the temporal span.

There have been other chronologies proposed, including Fredrickson (1973), and since it is correlated with Bennyhoff's (1977) work, it does merit discussion. The particular archeological cultural entities Fredrickson has defined, based upon the work of Bennyhoff, are patterns, phases and aspects. Bennyhoff's (1977) work in the Plains Miwok area is the best definition of the Cosumnes District, which likely conforms to Fredrickson's pattern. Fredrickson also proposed periods of time associated heavily with economic modes, which provides a temporal term for comparing contemporary cultural entities. It corresponds with Willey and Phillips' (1958) earlier "tradition", although it is tied more specifically to the archeological record in California.

Ethnography

The Project Area lies within the northern portion of the ethnographic territory of the Yokuts people. The Yokuts were members of the Penutian language family which held all of the Central Valley, San Francisco Bay Area, and the Pacific Coast from Marin County to near Point Sur. The Yokuts differed from other ethnographic groups in California as they had true tribal divisions with group names (Kroeber 1925; Latta 1949). Each tribe spoke a particular dialect, common to its members, but similar enough to other Yokuts that they were mutually intelligible (Kroeber 1925).

The Yokuts held portions of the San Joaquin Valley from the Tehachapi mountains in the south to Stockton in the north. On the north they were bordered by the Plains Miwok, and on the west by the Saclan or Bay Miwok and Ohlone peoples. Although neighbors were often from distinct language families, differences between the people appear to have been more influenced by environmental factors as opposed to linguistic affinities. Thus, the Plains Miwok were more similar to the nearby Yokuts than to foothill members of their own language group. Similarities in cultural inventory co-varied with distance from other groups and proximity to culturally diverse people. The material culture of the southern San Joaquin Yokuts was therefore more closely related to that of their non-Yokuts neighbors than to that of Delta members of their own language group.

Trade was well developed, with mutually beneficial interchange of needed or desired goods. Obsidian, rare in the San Joaquin Valley, was obtained by trade with Paiute and Shoshoni groups on the eastern side of the Sierra Nevada, where numerous sources of this material are located, and to some extent from the Napa Valley to the north. Shell beads, obtained by the Yokuts from coastal people, and acorns, rare in the Great Basin, were among many items exported to the east by Yokuts traders (Davis 1961).

Economic subsistence was based on the acorn, with substantial dependency on gathering and processing of wild seeds and other vegetable foods. The rivers, streams, and sloughs that formed a maze within the valley provided abundant food resources such as fish, shellfish, and turtles. Game, wild fowl, and small mammals were trapped and hunted to provide protein augmentation of the diet. In general, the eastern portion of the San Joaquin Valley provided a lush environment of varied food resources, with the estimated large population centers reflecting this abundance (Cook 1955; Baumhoff 1963).

Settlements were oriented along the water ways, with their village sites normally placed adjacent to these features for their nearby water and food resources. House structures varied in size and shape (Latta 1949; Kroeber 1925), with most constructed from the readily available tules found in the extensive marshes of the low-lying valley areas. The housepit depressions for the structures ranged in diameter from 3 meters to 18 meters (Wallace 1978:470).

Historical Background

The northern section of the City of Lathrop lies on a portion of the Rancho Campo de los Franceses, the ranch named for the early camp first occupied by French-Canadian trappers employed by the Hudson's Bay Company in 1832. The site of the present-day location of French Camp was the terminus of the Oregon Trail used by the trappers between 1832 and 1845. In 1843, William Gulnac, likely one of the trappers who had become a Mexican citizen, with Charles Weber, later founder of Stockton, organized a company of 12 men for the purpose of forming a colony at French Camp. Gulnac filed for a land grant, and was awarded a large tract of land including French Camp and the later site of Stockton by the Mexican government.

Much of the remainder of the land is a portion of the El Pescadero land grant. The Mexican land grant of 35,546 acres, lying in portions of what is now San Joaquin and Alameda counties, was awarded in 1843 to Antonio Maria Pico. Pico sold one half of the property to Henry Morris Naglee in 1849. Pico sold one half of the remainder of the property in 1852 to John C. Frémont. After California became a state, a claim was filed for the grant in 1852 and rejected in 1854, but ultimately the land grant was patented to Pico and Naglee in 1865. The land grant was settled by numerous squatters, and Fremont sold his land to Charles McLaughlin in 1867.

Lathrop first was a station on the Central Pacific, established in 1869 when the last stretch of the transcontinental railroad was built from Sacramento through this region, crossing the San Joaquin River at Mossdale to reach the Bay Area.

The site of Lathrop was first known as Wilson's Station, and included a store and a schoolhouse on land belonging to Thomas A. Wilson. Due to conflicts in the City of Stockton that infuriated Leland Stanford, the Central Pacific Railroad switched many operations to Wilson's Station, later re-named for Charles Lathrop, brother-in-law of Leland Stanford. The town drew significant commerce away from the City of Stockton. The railroad's machine shops and roundhouse were built here, and the town became an important division point and major stop on the railroad line beginning in 1871. The Visalia Division of the Stockton Branch of the Southern Pacific Railroad was completed at that time, serving the San Joaquin Valley. Lathrop became an important shipping point for agricultural products.

The early major building in Lathrop was the 1871 Central Pacific Railroad restaurant, serving passengers from trains from the Bay Area to Sacramento, and passengers travelling to the San Joaquin Valley. After he physically struck United States Supreme Court Justice Stephen Field in 1889 in the Central Pacific restaurant, attorney David S. Terry was shot and killed by Field's bodyguard.

Lathrop remained important for the railroads, and in 1890, had about 500 residents. Daily, there were twelve passenger and 44 freight trains passing through. But that changed in the early 1890s with the growth of Tracy, and the transfer of the machine shop and roundhouse to that community. The completion of the Western Pacific railroad in 1909 did not affect the town, with the local station located about ¾ miles from the town.

In 1942, the Lathrop Holding and Reconsignment Point was established in the Lathrop vicinity on what had been a sheep ranch, holding supplies for shipment through Bay Area ports. As many as 450 railroad cars would be loaded and unloaded each day.

The facility has gone through many changes with the changing needs of the military during times of conflict. After the end of World War II, the depot went through administrative and supply mission changes, the government applied a new name in 1948: Sharpe General Depot. The conflict in Korea brought a demand for increased services as the staffing, shipments and missions doubled during the three years of the war. The Army curtailed supply operations, and the Sharpe site began providing medical supplies and subsistence items on a larger scale. In 1962, the facility became the Sharpe Army Depot.

In 1965, with the escalation of the war in Vietnam, Sharpe became the major conduit for supplies moving to Southeast Asia. The Sharpe facility has continued to operate with a large part of the staffing switched to the Tracy facility beginning in 1999.

In the 1950s, several industrial plants were built in the Lathrop area, providing additional employment in the region. Beginning in the 1980s, improvements to community infrastructure and the attractive pricing of homes brought even more growth. The pattern of rapid growth continues to this day, with industrial and commercial development in the area, as well as many residents commuting daily to the Bay Area. The City of Lathrop incorporated in 1989.

Site Specific History

The Project area is open land in 1915, with no buildings present, and located west of a major roadway (Lathrop USGS topographic map 1915). In 1952, the Project Area is again vacant, and the roadway has been identified as Highway 99 (Lathrop USGS topographic map 1952). The 1952 topographic map was revised in 1968, and the house had been added to the Project Area by that date, with the roadway then identified as Highway 50. By 1976, the roadway was officially Interstate 5.

CCIC RESEARCH

A record search was conducted for the current APE and a 0.25-mile radius at the Central California Information Center of the California Historical Resources Information System on September 9, 2020 (Record Search File No.: 11495L; Appendix 2).

The Project site has never been surveyed in the past. There are no cultural resources recorded in or near the Project site or search radius. One survey has been completed within the survey area radius by Peter Jensen in 2002 for the Lathrop Storm Drainage System (# SJ-4824). Peak & Associates surveyed about half of the current Project area.

NATIVE AMERICAN CONSULTATION

Peak & Associates contacted the Native American Heritage Commission (NAHC) for a check of the Sacred Lands files. On October 19, 2020, the NAHC provided a reply with positive results. All correspondence related to the consultation effort are presented in Appendix 3.

The City of Lathrop sent a letter to the Northern Valley Yokuts tribe on January 22, 2021 including questions about the identified Sacred site and for information and evidence to support the presence of a Sacred site. On February 5, 2021, the City received letter from the Northern Valley Yokuts Tribe requesting Consultation per PRC Section 21080.3.2(a). The City confirms the receipt of the consultation request on February 19, 2021, and sets a meeting with Ms. Perez for February 26, 2021. Ms. Perez does not attend the meeting.

Further follow-up contacts with Ms. Perez resulted in a meeting scheduled for April 9, 2021. This meeting with Mark Meissner (Community Development Director, City of Lathrop) Steve McMurtry, De Novo Planning Group) David Niskanen (J.B. Anderson Land Use Planning) and Katherine Perez (Northern Valley Yokuts) is held on April 9, 2021. Ms. Perez was informed that a survey had been conducted and nothing related to the prehistoric people found at the site. Ms. Perez stated that there was a nearby site considered to be a Sacred Land, but that the tribe had no information on the site in the Project area. She recommended the archeologist contact the NAHC for further information. If the NAHC would not provide specifics regarding Sacred Lands, then the archeologists could do an excavation with their group acting as monitors for the test effort.

On April 9, 2021, the NAHC was contacted by Peak & Associates, and they responded they would not provide any further information on a Sacred Land except to the tribe that registers the site. No further information was forthcoming from with the NAHC or the North Valley Yokuts tribe. Since archeological testing is not a normal action with no indication of a site or with the project area containing the appropriate setting for a site, the City of Lathrop decided to close out the consultation effort.

The NAHC sent their standard letter on December 29,2022 after their receipt of the Notice of Preparation for the project.

FIELD ASSESSMENT

Michael Lawson (resume, Appendix 1) completed a field survey of a portion of the Project site on September 14, 2020 (Figure 7).

The landform appears naturally flat, but possibly leveled for farming. Although no farming features were observed, adjacent parcels show evidence of agricultural use in the form of tractors and implements, as well as crops. No observable natural water drainages, ditches or canals were present.

The vegetation included native and introduced grasses and brush, a mature mulberry tree, and several unidentified introduced species. Soil throughout the parcel was consistent in type and coloration, composed of sandy loam with some silt, light tan in color with very few pebbles.

Survey strategy included parallel transects no greater than ten meters apart, with closer spacing in areas of exceptional ground visibility, such as animal trails or rodent excavations.

Ground visibility was good to fair due to heavy dried grasses that are disintegrating and thinning in the late summer. Some scraping with a hoe was required to achieve acceptable soil observation.

Michael Lawson completed a second survey covering the remainder of the Project area on January 22, 2023, again using full coverage. No prehistoric or historic resources were found in the new survey area.

SURVEY RESULTS

No prehistoric period resources were found within the boundaries of the Project area. One historic site remnant was found and recorded as ML-20-06 in 2021 field survey effort (Appendix 3).

The property is the site of a former farm headquarters venture adjacent on the west to Manthey Road just west of Interstate 5 south of Roth Road (extended). All that remains is a small area of concrete

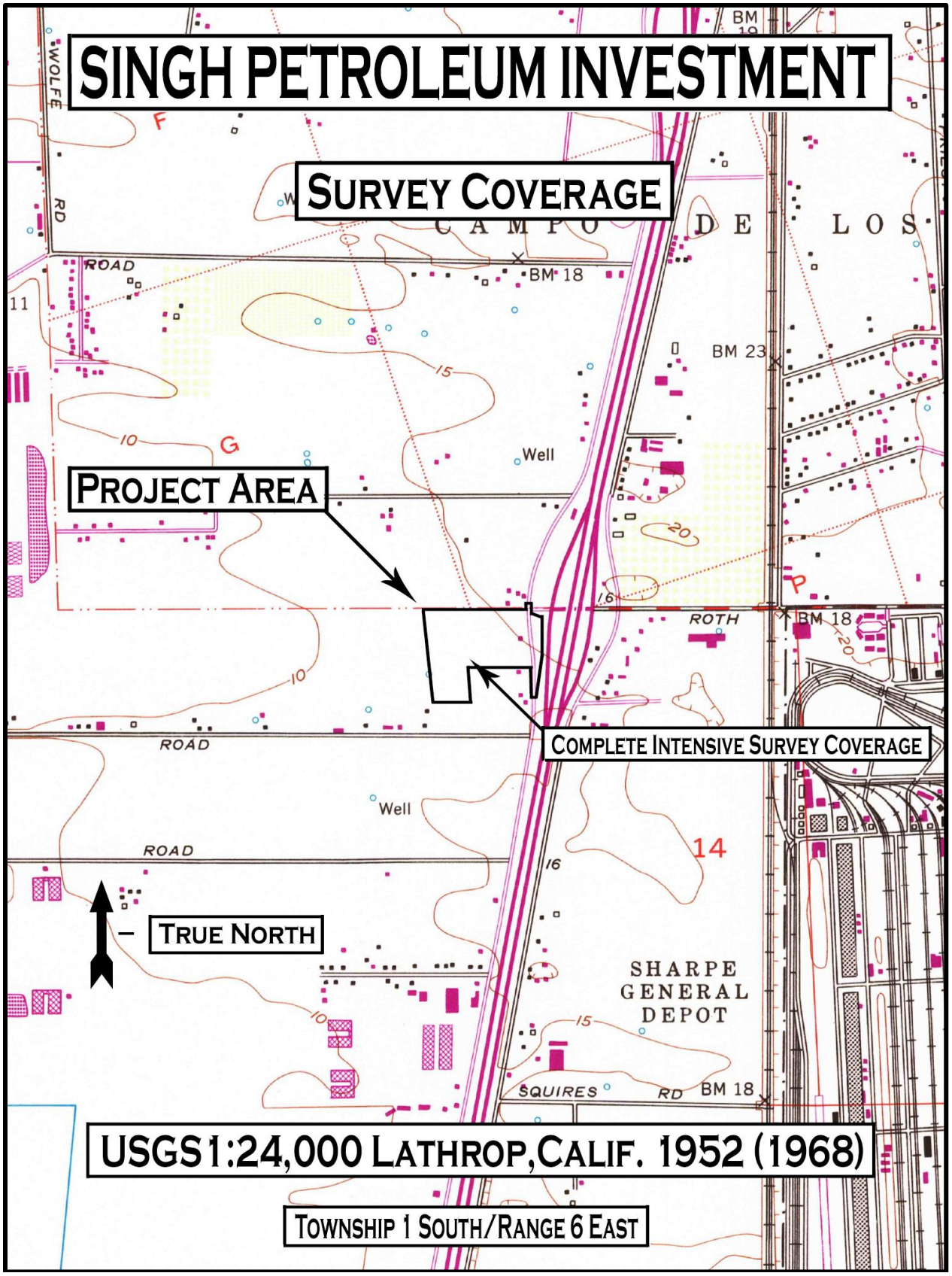

SINGH PETROLEUM INVESTMENT
SURVEY COVERAGE
PROJECT AREA
COMPLETE INTENSIVE SURVEY COVERAGE
TRUE NORTH
USGS 1:24,000 LATHROP, CALIF. 1952 (1968)
TOWNSHIP 1 SOUTH/RANGE 6 EAST
WOLFE RD
ROAD
BM 18
BM 23
Well
ROTH
SHARPE GENERAL DEPOT
SQUIRES RD
14

Figure 7

and timber foundations and pavements covering an area of about 72 feet north-south by 70 feet east -west. As recently as 2017, there was a standing structure at this location (Google Earth aerial). In addition to the foundations there is construction rubble present consisting of bricks (including a section of fallen brick wall), planks of various sizes and various pieces of hardware consistent with a date in the 1950s or 1960s. The foundation consists of poured concrete around the perimeter with pier blocks in the center. An uncompleted room on the west side has wooden forms with rebar, as well as pier-pits ready for concrete.

The building was constructed after 1952 but before 1968, per publication date of the Lathrop 7.5' USGS maps. The house appears on the revision but not the original map. The building may have burned down, since there is evidence of fire near an incomplete room on the west side. However, this could be the result of a fire after the house was abandoned.

EVALUATION OF RESOURCE: ML-20-06

For a property to be eligible for the California Register of Historical Resources, a property must meet one of the following criteria:

a. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;

b. Is associated with the lives of persons important in our past;

c. 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; or

d. Has yielded, or may be likely to yield, information important in prehistory or history.

Although it appears to be relatively evident for a remnant of a residence built sometime between 1952-1968, each of the criteria can be addressed as follows:

There are no known significant events in the Lathrop area in the 1950s-1980s related to this residence. Similarly, no association with important individuals can be found.

The building was removed in 2017; the remnant that still exists does not embody of a particular style, type, or method of construction; no specific important architect can be identified for the property.

There are no particular archeological values for a property that undoubtedly participated in normal waste disposal practices, and there would be no value to any items remaining at the site.

In conclusion, the building remnant has been recorded, and is not eligible for the California Register of Historical Resources, and there are no significant cultural resources with the Project Area.

RECOMMENDATIONS

Although no prehistoric sites were found during the survey, there is a slight possibility that a site may exist and be totally obscured by vegetation, fill, or other historic activities, leaving no surface evidence. Should artifacts or unusual amounts of stone, bone, or shell be uncovered during construction activities, work in that part of the Project area shall be halted, and an archeologist should be consulted for on-the-spot evaluation of the finding.

Discovery of Human Remains

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 suspected to overlie adjacent remains until the San Joaquin County Coroner has determined that the remains are not subject to any provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative. The coroner shall make his or her determination within two working days from the time the person responsible for the excavation, or his or her authorized representative, notifies the coroner of the discovery or recognition of the human remains.

If the San Joaquin County Coroner determines that the remains are not subject to his or her authority and if the Coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission (NAHC).

After notification, the NAHC will follow the procedures outlined in Public Resources Code Section 5097.98, that include notification of most likely descendants (MLDs), and recommendations for treatment of the remains. The MLDs will have 24 hours after notification by the NAHC to make their recommendations (PRC Section 5097.98).

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APPENDIX 1

Resumes

PEAK & ASSOCIATES, INC.
RESUME

MELINDA A. PEAK **January 2023**
Senior Historian/Archeologist
3941 Park Drive, Suite 20 #329
El Dorado Hills, CA 95762
(916) 939-2405

PROFESSIONAL EXPERIENCE

Ms. Peak has served as the principal investigator on a wide range of prehistoric and historic excavations throughout California. She has directed laboratory analyses of archeological materials, including the historic period. She has also conducted a wide variety of cultural resource assessments in California, including documentary research, field survey, Native American consultation and report preparation.

In addition, Ms. Peak has developed a second field of expertise in applied history, specializing in site-specific research for historic period resources. She is a registered professional historian and has completed a number of historical research projects for a wide variety of site types.

Through her education and experience, Ms. Peak meets the Secretary of Interior Standards for historian, architectural historian, prehistoric archeologist and historic archeologist.

EDUCATION

M.A. - History - California State University, Sacramento, 1989
Thesis: *The Bellevue Mine: A Historical Resources Management Site Study in Plumas and Sierra Counties, California*
B.A. - Anthropology - University of California, Berkeley

PROJECTS

In recent years, Ms. Peak has led the team completing the cultural resource sections for General Plan and General Plan Updates, for a number of cities/neighborhoods including Campbell, Milpitas, Yountville, Manteca, The Springs, Sebastopol, Martinez, Brentwood, Colusa County and Foster City. Older General Plan efforts include Wheatland, Rocklin, Sheridan, Granite Bay and South Sutter County.

In recent months, Ms. Peak has completed a number of determinations of eligibility and effect documents in coordination with the Corps of Engineers for projects requiring federal permits, assessing the eligibility of a number of sites for the National Register of Historic Places.

She has also completed historical research and historic site evaluation projects on a wide variety of topics for a number of projects including the development of a winery in a ranch in Folsom,

commercial buildings in the City of Davis, a lumber mill in Clovis, levees, warehouses, older farmhouses dating to the 1860s, an early roadhouse, bridges, canals, a former small-town site, and a section of an electric railway line.

In recent years, Ms. Peak has prepared a number of cultural resource overviews and predictive models for blocks of land proposed for future development for general and specific plans. She has been able to direct a number of surveys of these areas, allowing the model to be tested.

Ms. Peak completed the cultural resource research and contributed to the text prepared for the DeSabla-Centerville PAD for the initial stage of the FERC relicensing. She also served cultural resource project manager for the FERC relicensing of the Beardsley-Donnells Project. For the South Feather Power Project and the Woodleaf-Palermo and Sly Creek Transmission Lines, her team completing the technical work for the project.

She served as principal investigator for the multi-phase Twelve Bridges Golf Club project in Placer County. She served as liaison with the various agencies, helped prepare the historic properties treatment plan, managed the various phases of test and data recovery excavations, and completed the final report on the analysis of the test phase excavations of a number of prehistoric sites.

Ms. Peak has served as project manager for a number of major survey and excavation projects in recent years, including the many surveys and site definition excavations for the 172-mile-long Pacific Pipeline proposed for construction in Santa Barbara, Ventura and Los Angeles counties. She also completed an archival study in the City of Los Angeles for the project, and served as principal investigator for a major coaxial cable removal project for AT&T.

Additionally, she completed a number of small surveys, served as a construction monitor at several urban sites, and conducted emergency recovery excavations for sites found during monitoring. She has directed the excavations of several historic complexes in Sacramento, Placer and El Dorado Counties.

Ms. Peak is the author of a chapter and two sections of a published history (1999) of Sacramento County, *Sacramento: Gold Rush Legacy, Metropolitan Destiny*. She served as the consultant for a children's book on California, published by Capstone Press in 2003 in the Land of Liberty series.

PEAK & ASSOCIATES, INC.
RESUME

MICHAEL LAWSON **January 2023**
Archeological Specialist
3941 Park Drive, Suite 20-329
El Dorado Hills, CA 95672
(916) 939-2405

PROFESSIONAL EXPERIENCE

Mr. Lawson has compiled an excellent record of supervision of excavation and survey projects for both the public and private sectors over the past twenty-six years. He has conducted a number of surveys throughout northern and central California, as well as serving as an archeological technician and crew chief for a number of excavation projects.

EDUCATION

B.A. - Anthropology - California State University, Sacramento

Special Course: Comparative Osteology. University of Tennessee, Knoxville. Forensic Anthropology Center. January 2018.

Intensive lab and outdoor study with human example from outdoor research facility, including typical and non-metric examples, compared with fifty non-human species most commonly confused with human remains. Outdoor research facility "The Body Farm" study included survey, photography, collection and identification of faunal and human bone fragments, with a Power Point presentation discussing finds.

EXPERIENCE

- Extensive monitoring of open space, streets and project development areas for prehistoric period and historic period resources. Areas monitored include Sutter Street in Folsom; Mud Creek Archeological District in Chico; Camp Roberts, San Luis Obispo County; Avila Beach, San Luis Obispo County; Edgewood Golf Course, South Lake Tahoe; Davis Water Project, Davis; Star Bend levee section, Sutter County; Feather River levees, Sutter County; Bodega Bay, Sonoma County; San Jose BART line extension, Santa Clara County; and numerous sites for PG&E in San Francisco.
- Over twenty years of experience working in CRM, volunteer, and academic settings in California historic, proto-historic, and prehistoric archaeology.
- Expertise in pedestrian survey, excavation, feature (including burial) exposure, laboratory techniques, research. Field positions include crew chief and lead technician.

APPENDIX 2 Record

Search

(CONFIDENTIAL)

APPENDIX 3

Native American Consultation

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

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Wintun

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Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

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

October 19, 2020

Robert Gerry
Peak & Associates, Inc.

Via Email to: peakinc@surewest.net
Cc: canutes@verizon.net

Re: Singh Petroleum, San Joaquin County

Dear Mr. Gerry:

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 positive. Please contact the North Valley Yokuts Tribe on the attached list for more information. 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: Nancy.Gonzalez-Lopez@nahc.ca.gov.

Sincerely,

Nancy Gonzalez-Lopez
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Joaquin County
10/19/2020

North Valley Yokuts Tribe
Timothy Perez, MLD Contact
P.O. Box 717
Linden, CA, 95236
Phone: (209) 662 - 2788
huskanam@gmail.com

Costanoan
Northern Valley
Yokut

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717
Linden, CA, 95236
Phone: (209) 887 - 3415
canutes@verizon.net

Costanoan
Northern Valley
Yokut

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 Singh Petroleum, San Joaquin County.

Northern Valley Yokuts Tribe	
Date	**Summary of Consultation/Action**
February 5, 2021	City receives letter from the Northern Valley Yokuts Tribe requesting Consultation per PRC Section 21080.3.2(a).
February 19, 2021	David emails Katherine Perez to confirm receipt of letter and to setup a Consultation meeting. Email is followed-up with a phone message to Katherine.
February 24, 2021	David emails confirmation of meeting on February 26, 2021 at 10:00 AM and provides WebEx Information to Katherine.
February 26, 2021	Katherine does not attend scheduled Consultation meeting. David emails and leaves a phone message with Katherine stating that the meeting occurred and we waited for her to join. David also requested dates/times Katherine is available for the consultation meeting.
March 5, 2021	Email follow-up with Katherine to request dates/times for the consultation meeting.
March 16, 2021	David emailed Katherine meeting information for April 9, 2021 at 10:30 AM. Email included WebEx information.
April 2, 2021	Email follow-up with Katherine reminding her of the meeting on April 9, 2021.
April 8, 2021	Email follow-up with Katherine reminding her of the meeting on April 9, 2021.
April 9, 2021	Consultation meeting with Katherine to discuss the Singh Petroleum Project.

CITY OF LATHROP
SINGH PETROLEUM TA TRAVEL PLAZA
GPA-20-60, CUP-20-62, SPR-20-63, and ANX-20-64
ASSEMBLY BILL 52 CONSULTATION MEETING
APRIL 9, 2021 MEETING SUMMARY
PREPARED APRIL 12, 2021

MEETING PARTICIPANTS

City of Lathrop
Mark Meissner, Community Dev. Director

Northern Valley Yokuts tribe
Katherine Perez, Chairperson

De Novo Planning Group
Steve McMurtry, Principal

J.B. Anderson Land Use Planning
David Niskanen, Associate Planner

MEETING SUMMARY

The following are the summary notes from the Assembly Bill 52 (AB 52) Consultation Meeting with Ms. Katherine Perez, Chairperson of the Northern Valley Yokuts tribe.

David provided introductions and a description of the Singh Petroleum TA Travel Plaza Project, its location and status of the Environmental Impact Report (EIR). David also provided background on the correspondence with the Northern Valley Yokuts tribe and the Native American Heritage Commission (NAHC). The archeologist, Peak & Associates, Inc., received a letter from the NAHC on October 19, 2020 stating that a record search of the NAHC Sacred Lands File (SLF) was completed and the results were positive for the site. David stated that the letter sent to the Northern Valley Yokuts tribe on January 22, 201 included questions related to the Sacred Lands determination, such as asking for additional information and evidence on file to support that the subject property is Sacred Land.

Steve added that the as part of the EIR, an archeologist with Peak & Associates, Inc. did a surface survey/search of the property and did not find any evidence of cultural and/or archaeological findings. Steve also asked if there is evidence of the Sacred Land determination from the tribe or additional information that the tribe can share with the City.

Katherine stated that it is possible that the there is a site nearby that is considered Sacred Land. Katherine added that the tribe does not have information regarding Sacred Land and suggested that the archaeologist contact NAHC to obtain additional information. With regards to the surface survey/search, it is possible that the archeologist did not find any evidence on the surface but evidence could be found sub-surface. Katherine added that it is important for the tribe to be involved in ground disturbances.

Steve asked if there is a radius around the Sacred Land site and that burial sites are typically found near the San Joaquin River and the project site is a 1 ½ miles to the east of the river. Steve also referenced the burial sites located in Mossdale Landing. Katherine added that water sources meander over time. Steve asked what would the tribe like regarding this project – monitor during ground disturbance?

Katherine suggested that if the NAHC is unwilling to provide specifics regarding Sacred Land then the archaeologist can do sub-surface testing with monitors on-site. This would provide a green-lite for the project (if no evidence is found). Examples of testing include trenching, auguring, geotechnical testing, and potholes. Steve stated the Bear Creek Project in Stockton did trenching of 100 ft. or so at a 4 – 5 ft. depth.

Katherine recommended trenching instead of auguring and that she would want to be on-site. Katherine added that this level of inspection can satisfy everyone at the same time and reduce potential impacts to burial sites during construction and it would cost less to complete it now.

Steve asked if Katherine would like to review the Cultural Report before it goes public, and he would have to discuss with the City regarding the timing of testing. Katherine stated that she would like to review the Cultural Report. David added no activity is occurring on the site at this time.

Steve stated that he will discuss with the City regarding testing options. The City will also keep Katherine up to date on the status of the project.

Melinda Peak

From: Melinda Peak <peakinc@sbcglobal.net>
Sent: Monday, April 12, 2021 2:58 PM
To: 'Gonzalez-Lopez, Nancy@NAHC'
Subject: RE: Singh Petroleum, San Joaquin County, positive SLF letter 10-19-20

The Tribe in the letter is the group the City contacted. They claim to not know anything, and sent me to your office for more information. I guess it is up to them to go back to you and find out what they registered?

Melinda A. Peak
Peak & Associates, Inc.
3941 Park Drive Suite 20 #329
El Dorado Hills, CA 95762
916.939.2405

From: Gonzalez-Lopez, Nancy@NAHC <Nancy.Gonzalez-Lopez@nahc.ca.gov>
Sent: Monday, April 12, 2021 2:09 PM
To: Melinda Peak <peakinc@sbcglobal.net>
Subject: RE: Singh Petroleum, San Joaquin County, positive SLF letter 10-19-20

Hi Melinda,

The tribe indicated in the SLF Yes letter should be the tribe that registered the site. If there is no tribe indicated on the letter, it means the site was registered by an individual. We are required to notify lead agencies of there being a SLF site hit, however, we no longer give out information concerning these individuals. In these cases, reaching out to the tribes indicated on the contact list we provide for more information is sufficient.

Regards,

Nancy Gonzalez-Lopez
Cultural Resources Analyst
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
(916) 573-0168

From: Melinda Peak <peakinc@sbcglobal.net>
Sent: Monday, April 12, 2021 2:03 PM
To: Gonzalez-Lopez, Nancy@NAHC <Nancy.Gonzalez-Lopez@nahc.ca.gov>
Subject: RE: Singh Petroleum, San Joaquin County, positive SLF letter 10-19-20

Who is the tribe that registered the site? Is that controlled information. I would like to know who to contact.

Melinda A. Peak
Peak & Associates, Inc.

3941 Park Drive Suite 20 #329
El Dorado Hills, CA 95762
916.939.2405

From: Gonzalez-Lopez, Nancy@NAHC <Nancy.Gonzalez-Lopez@nahc.ca.gov>
Sent: Monday, April 12, 2021 1:49 PM
To: Melinda Peak <peakinc@sbcglobal.net>
Subject: Re: Singh Petroleum, San Joaquin County, positive SLF letter 10-19-20

Good Morning Ms. Peak,

We are unable to provide any information regarding positive Sacred Lands File hits to anyone other than the tribe who registered the site. Please let me know if I can be of further assistance.

Regards,

Nancy Gonzalez-Lopez

Cultural Resources Analyst

Native American Heritage Commission

1550 Harbor Blvd., Suite 100

West Sacramento, CA 95691

(916) 573-0168

From: Melinda Peak <peakinc@sbcglobal.net>
Sent: Friday, April 9, 2021 11:59 AM
To: Gonzalez-Lopez, Nancy@NAHC <Nancy.Gonzalez-Lopez@nahc.ca.gov>
Subject: Singh Petroleum, San Joaquin County, positive SLF letter 10-19-20

Nancy,

This is a slow moving project. Six months after your letter, my client contacted Kathy Perez for consultation today, and Kathy did not know why this area was listed as positive. Kathy suggested we contact you and ask if there anything you can tell me about what is there, and who filed information with you? There are some major sites about a mile away.

Thanks for any help you can give me.

Melinda A. Peak
Peak & Associates, Inc.
3941 Park Drive Suite 20 #329

El Dorado Hills, CA 95762
916.939.2405

NATIVE AMERICAN HERITAGE COMMISSION

GOVERNOR'S OFFICE OF PLANNING AND RESEARCH
Dec 30 2022
STATE OF CALIFORNIA

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nahc@nahc.ca.gov
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December 29, 2022

Rick Caguiat
City of Lathrop
390 Towne Centre Drive
Lathrop, CA 95330

Re: 2022120596, Singh Petroleum Investments Project, San Joaquin County

Dear Ms. Caguiat:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that 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. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).

2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.

3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).

4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:

- **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
- **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:

- **a.** If part or all of the APE has been previously surveyed for cultural resources.
- **b.** If any known cultural resources have already been recorded on or adjacent to the APE.
- **c.** If the probability is low, moderate, or high that cultural resources are located in the APE.
- **d.** If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.

- **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
- **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

cc: State Clearinghouse

APPENDIX 4

Site Record for ML-20-06

(CONFIDENTIAL)

APPENDIX D

Geotechnical Engineering Investigation

GEOTECHNICAL ENGINEERING INVESTIGATION

Singh Petroleum Investments Percolation
11293 S. Manthey Rd
Lathrop, CA 95330

Prepared for:
Gurbinder Singh
Singh Petroleum Investment, Inc.
17900 Murphy Parkway
Lathrop, CA 95330

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CTE Job No. 25-1278G
September 8, 2022

Prepared By:
CTE Cal, Inc.

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P: 209.543.1799
F: 209.342.7448

EXECUTIVE SUMMARY

Site Description

Undeveloped, relatively flat lot

Project Description

Design and construction of truck stop.

Geological Hazards

Violent shaking from earthquake generated ground motion waves.

Grading Requirements

Scarify foundation and pavement areas 12 inches, scarify 12 inches, moisture condition, and recompact

Location	Material	Moisture	Compaction
Foundation Bearing	Native	Optimum	90%
Foundation Bearing	Import Fill	Optimum	90%
Pavement Areas	Native	Optimum	95%
Pavement Areas	Import Fill	Optimum	95%

Foundation Design

Type	Bearing Capacity	Minimum Width	Minimum Embedment
Spread	3000 psf	24 inches	24 inches
Continuous	3000 psf	12 inches	24 inches

Lateral Load Parameters

Lateral Resistance		Equivalent Fluid Pressure		
Parameter	Value	Wall Type	Level Backfill	Sloped 2H:1V
Friction Coefficient	0.3	Cantilever	40 pcf	60 pcf
Passive Resistance	250 psf/ft (1250 psfmax)	Restrained	60 pcf	80 pcf

Seismic Design Parameters

Parameter	Value
Risk Category	II
Site Class	D
S_{DS}	0.638g
S_{D1}	0.402g
SDC	D

Pavement Design

Traffic Area	TI	R-Value	Asphalt Pavements		PCC Pavements,	
			AC (in)	Class II AB (in)	PCC (in)	Class II AB (in)
Parking Aisles	5.0	10	3.0	9	4	4
Auto Drive and Parking Areas	6.0	10	4.0	11	5	4
Pavement Truck and Bus Loading & Drive New Pavement Areas	7.0	10	4.0	15	6	4
Heavy Pavement Truck and Bus Loading & Drive New Pavement Areas	8.0	10	5.0	16	7	4

The results and recommendations presented in this Executive Summary should not be used for design or construction outside the context of the full report. The document should be evaluated and all recommendations should be taken in context.

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September 8, 2022 CTE Job No. 25-1278G

Attention: Gurbinder Singh
Singh Petroleum Investment, Inc.
17900 Murphy Parkway
Lathrop, CA 95330

Subject: Geotechnical Engineering Investigation
Singh Petroleum Investments Percolation
11293 S. Manthey Rd
Lathrop, CA 95330

Dear Gurbinder Singh,

In accordance with your request and authorization of CTE Cal Inc. (CTE) proposal, CTE has completed a geotechnical investigation at the above referenced project site. The attached report contains the results of our subsurface investigation, laboratory testing program, and engineering evaluation of the geotechnical and geological elements of the project site. Specifically, the report provides geotechnical engineering design parameters and construction recommendations for the design and development of the proposed project structures and site improvements.

Based on CTE's subsurface investigations, site materials testing, and our geotechnical and engineering evaluation, the project is considered feasible from a geotechnical standpoint provided the recommendations contained in the attached report are incorporated into the project design and construction. The recommendations contained are based on the assumption that CTE Cal will perform the required observations and construction services. CTE Cal's experience has found that there are considerable cost savings and reduction of risk by retaining the Geotechnical Engineer of Record for construction services.

If you have any questions regarding our findings or recommendations, please do not hesitate to contact this office. The opportunity to be of service is appreciated.

Respectfully submitted,

CTE Cal, INC.

Mike Kennedy, PE 88971
Project Engineer

Selena Gray, EIT
Staff Engineer

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FIGURES

APPENDICES

1.0 INTRODUCTION AND SCOPE OF SERVICES

1.1 Introduction

The proposed development consists of designing and constructing a new full service travel plaza located at 11293 S. Manthey Road in Lathrop, California.

This report presents the results of the Geotechnical Engineering Investigation, performed by CTE Cal, Inc. (CTE). The report provides conclusions and recommendations regarding the geotechnical design parameters and construction recommendations for the proposed development.

The investigation contained herein included surface and subsurface field explorations, laboratory testing of site soil deposits, geologic and seismic hazard evaluation of the project site, and engineering evaluation and analysis of the proposed project site and improvements. Based on the results of the investigation and analysis performed by CTE the project is considered feasible if the recommendations contained herein are incorporated into the design and construction of the project. References utilized in the investigation and analyses cited are presented in Appendix A.

1.2 Scope of Services

The scope of services provided for this investigation included:

- Review of readily available geologic reports and documents pertinent to the site area.
- Explorations to determine subsurface conditions to the depths influenced by the proposed construction.
- Laboratory testing of representative soil samples to provide data to evaluate the geotechnical design characteristics of the site foundation soils.
- Determination of the general geology and evaluation of potential geologic seismic hazards at the site.
- Preparation of this report describing the investigations performed and providing opinions/conclusions and geotechnical engineering recommendations for design and construction.

2.0 SITE AND PROJECT DESCRIPTION

The new travel plaza is to consist of design and construction of an 8 auto fuel island, 8 truck fuel island, a 4 bay shop, 16,499 SF building, parking lot, 2 retention ponds and associated site improvements. The proposed project consists of two parcels (APN 191-250-14 & 191-250-06), totaling approximately 21.7± acres is to be constructed at 11293 S. Manthey Road in Lathrop, California. The project is currently bound by Manthey Road to the East, agricultural and residential properties to the North and South, and undeveloped land the West,

At the time of our investigation, the project site consisted of an empty relatively flat lot. Upon reviewing Google Earth Historical Satellite Imagery, the site previously had a residential house on the West side of the property. The house appears to have been demolished and removed in 2017.

Figure 1, Site Index Map, at the end of this report, shows the general location of the sites. Figure 2, Exploration Map, shows the configuration of the proposed project.

3.0 FIELD AND LABORATORY INVESTIGATIONS

3.1 Field Investigations

The field exploration program included performing a site reconnaissance and excavating 4 exploratory borings and 2 percolation borings to determine the geometry and geotechnical characteristics of subsurface geologic deposits at the site areas proposed for new construction. Representative samples of the subsurface soil deposits were obtained from the soil boring for use in laboratory testing to determine the engineering properties and geotechnical parameters recommended for design. The borings (designated B-1 through B-4 and P-1 through P-2) were excavated using a truck-mounted drill rig using the auger diameter and depth specified in Appendix B.

The field subsurface exploration program included performing Standard Penetration Tests (SPT) using a standard split barrel sampler (1.4-inch inside diameter, 2-inch outside diameter) which was operated in accordance with ASTM D-1586. The drive sampler was utilized to

obtain samples of the subsurface soils at the depth intervals stated on the boring logs (see Appendix B) by driving the sampler into the bottom of the borehole with successive blows of a 140-pound auto hammer free-falling 30 inches. The number of blows required to drive the sampler three, six-inch intervals (18-inches total of sampler penetration) at each sampling location was recorded and the raw results of the drive sampler testing are shown on the boring logs (contained in Appendix B) in the column "Blows/6 inches". The standard penetration blow counts (N) were collected and used during the geotechnical engineering evaluation and analysis to correlate soil strength and structure bearing characteristics.

Soils were logged in the field by a CTE Field Geologist and were classified based on the Unified Soil Classification System (ASTM D2487), sampler drive resistance, field testing, and visual observations. Exploration logs prepared for each of the borings provide soil descriptions, and blow count data. The boring logs are included in Appendix B which also contains the Boring Log Legend and Definition of Soil Terminology as shown on Plates BL1 and BL2, respectively. The location of the test boring is shown on Figure 2 at the end of this report.

Relatively undisturbed soil samples were obtained from the drive sampler during exploration activities. The samples were collected in capped, stainless steel sample tubes or placed in zip lock plastic bags. Bulk soil samples, if applicable, were recovered directly from drill cuttings or were obtained from surface deposits and placed in sample bags.

Soil samples were then transported to CTE's laboratory for further testing. Field descriptions within the boring logs have been modified, where appropriate, to reflect laboratory test results. Upon completion of drilling, the borings were backfilled from final boring depth to original ground surface. Details of the soils encountered are shown on the Boring Logs which are presented in Appendix B.

3.1.1 Percolation Testing

Our subsurface geotechnical investigation included conducting a site storm water disposal soil suitability evaluation via percolation testing. The evaluation included the drilling and

testing of two percolation test holes drilled at the locations shown on Figure-2. The percolation test holes were drilled from existing lot grade to depths of 7 and 8-ft.

Groundwater was not encountered within the percolation test holes; however, it was encountered in boring B-1 at a depth of 30.5 ft BGS. These observations represent groundwater conditions at time of the field exploration and may not be indicative of other times, or at other locations. Groundwater conditions can vary with seasonal changes, local weather conditions, and, other factors.

3.1.2 Percolation Testing Procedure

Upon completion of the percolation hole drilling, the sides of the hole were scored to remove any smeared soil surfaces, loose material was removed, and 2 inches of a coarse sand were added the bottom of percolation hole. A 3-inch diameter open-ended slotted drain pipe was then installed to control potential sidewall caving of the test hole. Pre-saturation of the soils to be tested was accomplished by filling each test hole with water to a level of 6 inches above the sand 24 hours prior to test. During the testing a six-inch (minimum) column of water "dissipated" from each of the percolation test holes within 30 minutes or less. Percolation testing was then performed by adding water to a level of approximately 6± inches above the top of the 2 inches of sand placed at the base of each test hole. Recordings were made of the change (drop) in water level at regular time intervals and water level was refilled after each interval. Specific details are included on the attached percolation test data sheets located in Appendix-B.

3.1.3 Percolation and Infiltration Rates

The soil percolation rate is defined by the average time in minutes for a 1-inch column of water to "seep" into the soil. Percolation rate was calculated (in minutes per inch) by dividing the time (in minutes) by the change (drop) in water level (in inches). No correction factor was used in the calculation for boring diameter. Percolation test results are shown below in Table 3.1.3 Owing to variations in material type and depth, percolation rates would typically be expected

to fluctuate somewhat across a site and are also dependent upon actual construction, depth, size, location and workmanship of the drainage element.

The soils encountered were described as silty fine sand (SM). In general, the percolation rate is considered consistent with the soil types encountered at the site and the site location. Based on percolation test results, the soil conditions at the testing depths are not considered suitable for a storm water disposal system at the site. Owing to variations in material type and depth, percolation rates would typically be expected to fluctuate somewhat across a site and are also dependent upon actual construction, depth, size, location and workmanship of the drainage element.

The percolation test measures the length of time required for a quantity of water to infiltrate into the soil and is commonly referred to as the "percolation rate". It should be noted that the percolation rate is related to, but not equal to, the infiltration rate. An infiltration rate is a measure of the speed at which water progresses downward into the soil, the percolation rate measures not only the downward progression but the lateral progression through the soil as well. This reflects the fact that the surface area for infiltration testing would include only the horizontal surface while the percolation test includes both the bottom surface area and the sidewalls of the test hole.

The calculated conversion from percolation rate to infiltration rate is located in Appendix B. The resulting percolation rate in min/inch and Infiltration rates in gal/sf/day are listed in Table 3.1.3 below. The observed infiltration rates listed below do not include a safety factor.

TABLE 3.1.3 PERCOLATION RATES				
TEST NUMBER	DEPTH (ft)	MATERIAL TYPE	PERCOLATION RATE (Min/In)	OBSERVED INFILITRATION RATE (Gal/ft^2/day)
P-1	7	Silty Fine Sand (SM)	4.4	34.4

TABLE 3.1.3 PERCOLATION RATES				
TEST NUMBER	DEPTH (ft)	MATERIAL TYPE	PERCOLATION RATE (Min/In)	OBSERVED INFILITRATION RATE (Gal/ft²/day)
P-2	8	Silty Fine Sand (SM)	5.0	29.9

Based on percolation test results, as described above, the soil conditions at the site are considered suitable for a storm water disposal system in the vicinity of the proposed stormwater management basin.

3.1.4 Drainage Basin Side Slope Inclination

As is stated in Appendix D Standard Grading Recommendations Section 6.2 Cut Slopes "permanent cut slopes should not be steeper than 2:1 (Horizontal: Vertical) and Section 7.3 Fill Slopes "permanent fill slopes should not be steeper than 2:1 (Horizontal: Vertical). These recommendations are consistent and appropriate with regard to overall stability of drainage basin side slopes containing the silty fine sands (SM) to a depth of 7 feet BGS. With regard to the long-term geotechnical engineering performance of the site cut and fill slopes CTE Cal takes no exception to the construction of 3:1 (Horizontal: Vertical) drainage basin side slopes at the subject site.

3.2 Laboratory Testing Program

Laboratory tests were conducted on representative soil samples for classification purposes and to evaluate physical properties and engineering characteristics. Laboratory tests were conducted on representative soil samples collected from the borings. Geotechnical laboratory testing may include in situ moisture content, dry density, sieve analysis, relative fines content, Atterberg Limits, Expansion Index, R-Value testing and Consolidation testing, see Appendix C for specific tests performed. Test method descriptions and laboratory test results are presented in Appendix C.

4.0 GEOLOGY

4.1 General Geologic Setting

The site is located in the central San Joaquin Valley. The San Joaquin Valley is bounded by the Sacramento Valley to the North, the Sierra Nevada Mountain Range to the East, the San Emigdio and Tehachapi Mountains to the South, and the Coastal Ranges to the West. The floor of the San Joaquin valley consists of layered marine and nonmarine sedimentary rock deposits. These deposits are predominantly Pleistocene-Holoscene (2.6 million years ago to present) sedimentary rocks.

Based on geologic reconaissance and observations made within the test borings, materials encountered during the investigation were considered to be consistent with Modest formation (Qm) as shown on published regional geologic mapping "Geologic Map of the San Francisco-San Jose Quadrangle, California" (CDMG Regional Geologic Map 5A, Scale 1:250,000, 1991).

4.2 Generalized Soil Conditions

Soil materials encountered in our site explorations are consistent with the above referenced published geologic mapping. Soil materials encountered on site generally consisted of medium dense silty sand (SM) from the surface to approximately 7.5 feet BGS. The sands were underlain by interbedded layers of very stiff to hard low plastic silts (ML) and clays (CL) to the maximum explored depth of 30.5 ft BGS.

Since the earth material profile described above is generalized, the reader is advised to consult the Test Boring Log contained in Appendix B, if determination of the earth material conditions at a specific depth and location are desired. The boring logs contain a more detailed earth material description regarding color, earth material type, and Unified Soil Classification System (USCS) symbol. It should be noted that earth material conditions cannot be fully determined by test borings and earth material sampling and testing. Hence, unexpected earth material conditions might be encountered during construction. If soil deposits encountered during construction vary substantially from materials encountered during the investigation, appropriate recommendations will be made during construction.

Please contact CTE Cal if soil deposits encountered during construction vary substantially from materials encountered during the investigation

4.3 Groundwater Conditions

Observations of groundwater conditions were made in the test borings at the time of field exploration. Groundwater was encountered in the boring locations at an approximate depth of 30.5 feet BGS. Based on information contained on the California SGMA Data Viewer site (https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels), ground water levels measured as groundwater contour lines near the site are typically between 20 to 40 feet BGS in the fall and spring seasons.

Groundwater levels can fluctuate on a seasonal basis due to changes in precipitation, irrigation, pumping, etc., and might increase above the levels. With proper drainage groundwater is not expected to affect the proposed development. However, excavations below groundwater level will be impacted by seepage; therefore, we recommend grading and utility excavations be performed during dry-season when ground water levels are lowest.

If construction is undertaken during wet-season/heavy-rains, saturated soils will not be expected to be acceptable for grading or compaction and could hamper progress due to limited equipment mobility and/or inability to achieve appropriate moisture content to achieve required soil compaction. Saturated soils resulting from significant precipitation events may need to be dried by aeration or an additive, such as lime, cement, or kiln dust added to stabilize the working surface and allow for proper soil compaction. Moisture conditioning (drying or wetting) of the engineered fill will likely be needed for the project. Appropriate erosion control and permanent site surface drainage elements per the latest California Building Code should be designed and implemented as per the project civil engineer.

4.4 Geologic Hazards

Based on the investigation it appears that geologic hazards at the site are primarily limited to those caused by violent shaking from earthquake generated ground motion waves. The

subject site is not located within a seismic hazard zone for susceptibility to liquefaction or landslides. The subject site is not in an Alquist-Priolo special studies zone.

The underlying undisturbed soils encountered are considered adequate for support of moderately loaded structures with conventional shallow foundations. The soil conditions, groundwater level, and relatively short distances to several faults are significant geotechnical concerns that also control the selection of suitable foundation support for the proposed improvements. Design and construction recommendations presented herein have been developed based on the noted site conditions.

4.5 General Geologic Hazards Observation

Based on the site reconnaissance and review of the referenced literature, the site is not within a State of California-designated Alquist-Priolo Earthquake Fault Studies Zone (http://maps.conservation.ca.gov/cgs/fam/), and no known active fault traces shown on published hazard mapping underlie or project toward the site. According to the California Division of Mines and Geology, a fault is active if it displays evidence of activity in the last 11,000 years (Hart and Bryant, revised 2007). Therefore, the potential for surface rupture from displacement or fault movement directly beneath the proposed improvements is considered low.

4.6 Local and Regional Faulting

The California Geological Survey (CGS) and the United States Geological Survey (USGS) broadly group faults as “Class A” or “Class B”. Class A faults are identified based upon relatively well-defined paleoseismic activity, and a fault-slip rate of more than 5 millimeters per year (mm/yr). In contrast, Class B faults have comparatively less defined paleoseismic activity and typically have a fault-slip rate less than 5 mm/yr. The nearest faults are listed in Table 4.6. (U.S. Geological Survey (CGS), 2006, Quaternary fault and fold database for the United States, accessed 8/31/2022 USGS website (https://earthquake.usgs.gov/cfusion/hazfaults_2008_search/query_results.cfm)

TABLE 4.6 NEAR SITE FAULT PARAMETERS			
FAULT NAME	DISTANCE FROM SITE (MILES)	MAXIMUM EARTHQUAKE MAGNITUDE	SLIP RATE (MM/YR)
Great Valley 7	15.10	6.90	1.5
Greenville Connected	23.86	7.00	2
Great Valley 8	29.84	6.80	1.5
Mount Diablo Thrust	30.71	6.70	2
Great Valley 5, Pittsburg Kirby Hills	32.58	6.70	1
Calaveras;CN	36.96	6.87	6

4.7 Liquefaction and Seismic Settlement Evaluation

Liquefaction occurs when saturated fine-grained sands and/or silts lose their physical strength temporarily during earthquake induced shaking and behave as a liquid. This is due to loss of point-to-point grain contact and transfer of normal stress to the pore water. Liquefaction potential varies with water level, soil type, material gradation, relative density, and probable intensity and duration of ground shaking.

The California Geological Survey (CGS) has designated certain areas within California as potential liquefaction hazard zones. These mapped areas are considered at risk of liquefaction-related ground failure during a seismic event based upon mapped surficial deposits. The project site is not currently mapped for potential liquefaction hazard by the CGS (refer to CGS website: (http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps). Based on readily available published geologic information, there is no historical record of liquefaction occurring at the site.

Based on our explorations the near surface soil deposits at the site consist of approximately 7.5 ft of medium dense silty sand followed by interbedded layers of very stiff to hard low plastic silts and clays (ML and CL) to the maximum explored depth of 31.5. Groundwater was

encountered at a depth of 30.5 ft BGS. Based on the site location, the relatively low intensity of ground shaking expected, the relatively deep ground water and the consistency of the subsurface materials, the possibility of large differential settlements due to seismic dry sand settlement or liquefaction is considered low. Therefore, the potential for catastrophic building collapse due to a seismic liquefaction event are considered not significant.

4.8 Earthquake Induced Landsliding

Based on information available on the California Geological Survey (CGS) website (http://maps.conservation.ca.gov/cgs/lsi/) the subject site is not currently mapped within a State of California Seismic Hazard Zone for seismically induced landsliding. The project site is relatively flat lying, therefore the seismically induced landsliding hazard is considered low.

4.9 Tsunamis and Seiche Evaluation

Based on site location, elevation, and tsunami hazard mapping from the CGS website (http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=tsunami) the site is not in a tsunami inundation hazard zone. In addition, oscillatory waves (seiches) are considered unlikely due to the absence of large confined bodies of water in the site area.

4.10 Compressible and Expansive Soils

Earth materials encountered at the site within the zone of influence of the proposed foundation system are described as hard and medium dense. These soils are not considered subject to significant compression under anticipated loads.

The near surface soils encountered during our investigation are also classified as low plastic and with low expansion potential and therefore would be expected to exhibit low volume change upon wetting or drying.

4.11 Soil Corrosion Potential

Assessment for potential of soil corrosion on construction materials was not included as part of this investigation. We recommend your corrosion engineer determine the potential

corrosive characteristics of the on-site soils with respect to contact with the various underground materials that will be used for project construction.

4.12 Flooding Hazard Potential

Based on FEMA flood zone maps for City of Lathrop, California, Map No. 06077C0610F, (200+) to assess the potential for flooding of the site. Based on a review of the noted map, the site is in a designated zone, "AREA WITH REDUCED FLOOD RISK DUE TO LEVEE - Zone X", areas protected by levees from 1% annual chance flood.

5.0 CONCLUSIONS AND RECOMMENDATIONS

We conclude that the proposed construction is feasible from a geotechnical standpoint, provided the recommendations in this report are incorporated into the design of the project. Recommendations for the design and construction of the proposed structures and associated improvements are included below.

5.1 Site Preparation

Project site stripping should include the demolition, removal and disposal of all asphalt and concrete debris, vegetation and other organic material in all proposed building pad, and improvement areas. Loose, wet or otherwise unstable soil in the proposed improvement area should be excavated and evaluated by CTE for possible re-use as engineered fill or disposed of offsite. Utilities that extend into the construction area and are scheduled to be abandoned should be properly capped at the perimeter of the construction zone or moved as directed in the plans. CTE personnel shall observe and confirm that all asphalt and concrete debris, vegetation, and other organic material has been adequately removed in all proposed improvement areas.

5.2 Grading and Earthwork

Based on the current proposed development and the subsurface soils encountered during our excavations CTE recommends that proposed structure areas should be overexcavated to the

depth stated in Table 5.2. The building pad overexcavation should extend to a minimum distance of at least 5 feet outside of all proposed structure areas if possible.

The exposed over excavated surface should then be scarified to a depth of approximately 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2. Moisture density relationship shall be established in accordance with ASTM D1557. The compaction percent listed in Table 5.2 shall be based on percent relative compaction when compared to the maximum dry density determined in accordance with ASTM D1557. Additional engineered fill, if required, shall then be placed in 8 inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.

After stripping in pavement improvement areas is conducted, the stripped areas should be overexcavated to 12 inches below the proposed pavement subgrade. The excavated surface should then be scarified to a minimum depth of 12 inches, moisture conditioned and recompacted to the moisture and relative compaction required in Table 5.2. Moisture-density relationship shall be established in accordance with ASTM D1557. Proof rolling with heavy equipment shall be performed with CTE Cal present to confirm that subgrade is compacted, stable and does not deflect under heavy equipment loads. Additional engineered fill, if required, shall then be placed in 8-inch loose lifts, moisture conditioned and compacted in accordance with Table 5.2.

Soils generated from the site are expected to be acceptable for engineered fill provided the debris and organic materials are removed from the soils. The moisture content of the soil may be significantly higher or lower than the moisture range required for compaction. Import soils proposed for engineered fill should consist of soil deposits having an Expansion Index EI < 20 or liquid limit less than 30 (LL<30) and a plasticity index less than 12 (PI< 12), with no particles greater than 3 inches and 20 to 80% of the soil particles passing the #200 sieve. Imported fill meeting these requirements should be placed in 8 inch loose lifts, moisture conditioned and compacted to the moisture content and percent relative compaction stated

in table 5.2. A CTE representative should approve all imported soils prior to delivery to the site.

If unanticipated, unsuitable or unstable materials are encountered at the surface improvement subgrade or structure over-excavation such that proper compacted and stable materials cannot be obtained, over-excavations to remove such materials may be required. CTE shall inspect and approve all structure over-excavations, pavement and surface improvement subgrade areas to confirm that adequate soil conditions have been reached. CTE shall also observe and approve the scarification, moisture conditioning and recompaction of the excavated surfaces and the placement of all engineered fill.

TABLE 5.2
GRADING AND EARTHWORK

GRADING SCOPE	RECOMMENDATION
Overexcavation	Scarify foundation and pavement areas 12 inches, scarify 12 inches, moisture condition, and recompact
Compaction and Moisture Requirements	**Location** / **Material** / **Moisture** / **Compaction** Foundation Bearing / Native / Optimum / 90% Foundation Bearing / Import Fill / Optimum / 90% Pavement Areas / Native / Optimum / 95% Pavement Areas / Import Fill / Optimum / 95%
Testing Frequency	**Location** / **Frequency*** Building Pad / 1 per 2500 square ft Utility Trenches / 1 per 150 linear ft Pavement Areas / 1 per 2500 square ft *Minimum one test per lift and one per day.

5.3 Structure Foundation Recommendations

CTE anticipates it will be feasible to utilize reinforced continuous and isolated spread footing foundations to support the proposed structures as the subject site.. It is recommended that these structure foundations be supported upon properly compacted engineered fill per the requirements stated in Section 5.2. Foundation dimensions and reinforcement should be based on the allowable soil bearing values stated in Table 5.3. Footing widths should be at least the widths stated in Table 5.3 or as determined by the project structural engineer. The

footings should penetrate into and be embedded below building pad subgrade to the depth stated in Table 5.3.

Continuous perimeter spread footings should extend around the entire perimeter of the buildings including all door openings. The allowable foundation bearing pressures apply to dead loads plus design live load conditions. The design bearing pressure may be increased by one-third when considering total loads that include short duration wind or seismic conditions. The weight of the foundation concrete below grade may be neglected in dead load computations. The weight of the footing should be neglected in the above downward capacity calculations.

We recommend that all footings be reinforced as required by the structural engineer to provide structural continuity, to permit strong spanning of local irregularities, and to be rigid enough to accommodate potential differential static movements estimated at about one-half inch over 20 linear feet. CTE recommends that at a minimum footing reinforcement should consist of at least code required minimum reinforcement with proper cover. Isolated spread footings should be reinforced in accordance with the requirements of the structural engineer.

Based on soil conditions observed at the site, the total static structure settlement is expected to be controlled by either static compression or consolidation. Dynamic settlement due to an earthquake event is in addition to the static settlement. See Table 5.3 for expected structure settlements.

The foundation excavations should be clean (i.e., free of all loose slough) and wetted prior to placing steel and concrete. Foundation excavations should be moisture conditioned to the moisture condition stated in Table 5.2 and verified by CTE no longer than 24 hours prior to foundation concrete placement and the placement of vapor barriers. The concrete for the foundation should not be placed against a dry excavation surface. Concrete should be pumped or placed by means of a tremie or elephant's trunk to avoid aggregate segregation and earth contamination. The concrete should be properly vibrated to mitigate formation of

voids and to promote bonding of the concrete to steel reinforcing. These recommendations are predicated upon CTE's representative observing the bearing materials as well as the manner of concrete placement.

CTE's geotechnical engineer or his representative should observe soil conditions exposed in foundation excavations and shall test the foundation excavations to assure the proper moisture content has been achieved prior to footing placement. If the soil conditions encountered differ significantly from those presented in this report, then supplemental recommendations from CTE will be required.

TABLE 5.3
STRUCTURE FOUNDATION RECOMMENDATIONS

SYSTEM PARAMETERS

Type	Bearing Capacity	Minimum Width	Minimum Embedment
Spread	3000 psf	24 inches	24 inches
Continuous	3000 psf	12 inches	24 inches

SETTLEMENT

Settlement Type	Settlement	Differential Settlement
Consolidation	N/A	N/A
Static Compression	½ inch	¼ inch
Dynamic	½ inch	¼ inch
Total	1 inch	½ inch

5.4 Lateral Load Resistance

Shallow footings may be designed to resist lateral loads using the coefficient of friction stated in Table 5.4 (total frictional resistance equals the coefficient of friction times the dead load). The design passive resistance value stated in Table 5.4 may be used. The allowable lateral resistance can be taken as the sum of the frictional resistance and the passive resistance, provided the passive resistance does not exceed two-thirds of the total allowable resistance.

TABLE 5.4 LATERAL LOAD RESISTANCE	
Parameter	**Value**
Coefficient of Friction	0.3
Design Passive Resistance	250 psf/ft
Maximum Design Passive Resistance	1250 psf

5.5 Retaining Walls

Free draining retaining walls backfilled using select permeable onsite soils or import fill per the preceding section of this report, may be designed using the equivalent fluid weights given in the table below. These values are also considered suitable for permanent shoring, if proposed.

TABLE 5.5 EQUIVALENT FLUID UNIT WEIGHTS (pounds per cubic foot)		
WALL TYPE	LEVEL BACKFILL	SLOPE BACKFILL 2:1 (HORIZONTAL: VERTICAL)
Cantilevered Wall	40	60
Restrained Wall	60	80

Traffic surcharges on retaining walls should generally be equal to 1/3 of the vertical load of the traffic located within ten lateral feet of wall. Lateral pressures on cantilever retaining walls (yielding walls) due to earthquake motions may be calculated based on work by Seed and Whitman (1970). The total lateral thrust against a properly drained and backfilled cantilever retaining wall above the groundwater level can be expressed as:

$$P_{AE} = P_A + \Delta P_{AE}$$

For non-yielding (or "restrained") walls, the total lateral thrust may be similarly calculated based on work by Wood (1973):

$$P_{KE} = P_K + \Delta P_{KE}$$

Where P_A = Static Active Thrust (given in previous Table)

P_K = Static Restrained Wall Thrust (given in previous Table)

ΔP_{AE} = Dynamic Active Thrust Increment = (3/8) $k_h \gamma H^2$

ΔP_{KE} = Dynamic Restrained Thrust Increment = $k_h \gamma H^2$

k_h = ½ Peak Ground Acceleration = ½ (S_{DS}/2.5)

H = Total Height of the Wall

γ = Total Unit Weight of Soil ≈ 125 pounds per cubic foot

The increment of dynamic thrust in both cases should be based on a trapezoidal distribution (essentially an inverted triangle), with a line of action located at 0.6H above the bottom of the wall. The values above assume non-expansive backfill and free-draining conditions. Additional information for dynamic and static loading conditions for specific retaining structures can be provided on request from CTE. Measures should be taken to prevent moisture buildup behind all retaining walls. Drainage measures should include free-draining backfill materials and sloped, perforated drains. These drains should discharge to an appropriate off-site location. Waterproofing should be as specified by the project architect.

5.6 Foundation Setback

The bottoms of all utility trenches placed along the perimeter of the foundations should be above an imaginary plane that projects at a 45-degree angle down from the lowest outermost edge of the foundation. Where trenches pass through the plane, the trench should be installed perpendicular to the face of the foundation for a distance of at least the depth of the foundation. Deepening of affected foundation is considered an effective means of attaining the prescribed setbacks.

Foundations should be offset from slopes by at least one-third the slope height. The offset from slopes steeper than 1H:1V should be increased by the projection of a 45° plane from the slope toe. The offset distance should be measured to the nearest edge of the foundation base. Deepening the footing is considered a valid way to achieve the required slope offset.

5.7 Concrete Slabs-On-Grade

Lightly loaded concrete slabs-on-ground placed beneath the structures should be designed for the anticipated loadings, but measure at least 4 inches in thickness. Concrete slabs exposed to vehicular traffic should measure at least 5 inches in thickness. Slab-on-grade reinforcement should consist of at least the minimum reinforcement required by ACI, placed at or above mid-slab height, but with proper cover. Control joints at appropriate spacing i.e. 12 feet each way should be saw-cut into the slab after concrete placement in accordance with ACI Design Manual, Section 302.1R-37 8.3.12 (tooled control joints are not recommended).

All interior slab on grade areas shall be underlain by a capillary moisture break consisting of a 4" layer of ¾" minus crushed rock or Class 2 base. Prior to the installation of the capillary moisture barrier the existing subgrade shall be wetted to at least 3% above optimum moisture content as verified by a CTE representative no longer the 24 hours prior to concrete slab placement. All interior slab on grade located in moisture sensitive areas should be directly underlain by a minimum 15-mil thickness vapor retarder meeting the requirements of ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs, with all laps or penetrations sealed or taped. The vapor retarder should be installed above the capillary moisture break which in turn overlies the compacted building pad. The use of sand above the vapor retarder is not recommended. The concrete to be placed into the slab on grade shall have a water to cement ratio w/c $\leq$ 0.45 and be placed at a maximum slump of 4".

CTE Cal does not practice in the field of moisture vapor transmission evaluation and mitigation. Therefore, we recommend that a qualified firm be engaged with to evaluate the general and specific moisture vapor transmission paths and any impact on the proposed construction. This firm should provide recommendations for mitigation of potential adverse impact of moisture vapor transmission on various components of the structure as deemed appropriate.

5.8 Seismic Design Criteria

Soils that underlie the site are considered to be consistent with Site Class D materials. Site ground motion with 10% probability of exceedance in 50 years is presented in Table 5.8, below. The table is based on the United States Geological Survey's (USGS) Probabilistic Seismic Design Maps through the third party interface ATC Hazards by Location Tool website (https://hazards.atcouncil.org/#/seismic?) for the site coordinates 37.8555319° latitude and -121.284538° longitude. The referenced USGS design maps are based on the design code reference document, ASCE 7-16 Standard with the 2019 California Building Code.

TABLE 5.8
SEISMIC GROUND MOTION VALUES

PARAMETER	VALUE	REFERENCE
Risk Category[1]	II	CBC (2019) Table 1604.5
Site Class[2]	D	ASCE 7-16, Chapter 20
Mapped Spectral Response Acceleration Parameter, S_S	0.797g	ASCE 7-16 Figure 22-1
Mapped Spectral Response Acceleration Parameter, S_1	0.302g	ASCE 7-16 Figure 22-2
Seismic Coefficient, F_a	1.200	CBC (2019) Table 1613.2.3 (1)
Seismic Coefficient, F_v[3]	1.998	CBC (2019) Table 1613.2.3 (2) ASCE 7-16 Section 11.4.8
MCE Spectral Response Acceleration Parameter, S_{MS}	0.956g	ASCE 7-16 Section 11.4.4
MCE Spectral Response Acceleration Parameter, S_{M1}[4]	0.603g	ASCE 7-16 Section 11.4.8
Design Spectral Response Acceleration Parameter, S_{DS}	0.638g	ASCE 7-16 Section 11.4.5
Design Spectral Response Acceleration Parameter, S_{D1}[5]	0.402g	ASCE 7-16 Section 11.4.8
Mapped MCE Geometric Peak Ground Acceleration, PGA	0.332g	ASCE 7-16, Chapter 21
Mapped MCE Geometric Peak Ground Acceleration Adjusted for Site Class Effects, PGA_m	0.421g	ASCE 7-16, Chapter 11
Seismic Design Category	D	ASCE 7-16, Chapter 11

TABLE 5.8 SEISMIC GROUND MOTION VALUES		
PARAMETER	VALUE	REFERENCE

[1] Risk Category is based on an assumed nature of occupancy based on CTE Cal's understanding of project scope. Seismic design values may change based on actual occupancy type of the proposed construction.
[2] The 2019 CBC requires a site soil profile determination extending to a depth of 100 feet for seismic site classification. Borings for this study extended to a maximum depth of 31.5± feet, and this seismic site class definition considers soils below this depth to be consistent with the soils encountered at shallower depths.
[3] F_v is calculated in accordance with ASCE 7-16 Table 11.4-2 assuming that the exception for Site Class D with S_1 greater than or equal to 0.2 will be applied.
[4] S_{M1} is calculated in accordance with ASCE 7-16 Section 11.4.4
[5] S_{D1} is calculated in accordance with ASCE 7-16 Section 11.4.5

Per ASCE 7-16 Section 11.4.8, a site-specific ground motion procedure would be required for the structure since the site falls under Class D, and the S_1 parameter is greater than or equal to 0.2. However, Exception (2) permits the use of the Code-Based ground motion values if the seismic response coefficient C_s is amplified by 1.5 times for the period range $T \geq 1.5T_s$ using equations 12.8-3 and 12.8-4 in ASCE 7-16. If the proposed developments have a period in the range exceeding $1.5T_s$, then the base shear coefficient must be increased as required by ASCE 7-16.

5.9 Pavement Section Alternatives

It is understood asphaltic or concrete pavement is proposed for the site. The subgrade beneath all pavements should be moisture conditioned and compacted in accordance with Table 5.2 as per ASTM D1557. Pavements should be designed and constructed according to California Department of Transportation (Caltrans) standards.

The pavement design sections listed below are based on Caltrans Highway Design Manual, using the recommended R-Value for subgrade soils as listed in Table 5.9, and on anticipated traffic indices as indicated below. If these assumptions are incorrect, then this office should be contacted to obtain further pavement recommendations.

TABLE 5.9
RECOMMENDED PAVEMENT SECTIONS

Traffic Area	Assumed Traffic Index	Subgrade "R"-Value	Asphalt Pavements		Portland Cement Concrete Pavements**	
			AC Thickness (inches)	Class II AB* Thickness (inches)	PCC Thickness (inches)	Class II AB* Thickness (inches)
Parking Aisles	5.0	10	3.0	9	4	4
Auto Drive and Parking Areas	6.0	10	4.0	11	5	4
Pavement Truck and Bus Loading & Drive New Pavement Areas	7.0	10	4.0	15	6	4
Heavy Pavement Truck and Bus Loading & Drive New Pavement Areas	8.0	10	5.0	16	7	4

* Caltrans class 2 aggregate base, ** Concrete should have a modulus of rupture of at least 600 psi

To significantly reduce concrete shrinkage cracking concrete pavements should be reinforced with code required minimum reinforcement placed at above mid-slab height, but with proper concrete cover, or as designed by the structural designer. Concrete pavements not supporting heavy traffic could be unreinforced provided they are constructed with expansion/contraction and/or construction joints spaced no greater than 24 times the pavement thickness, both ways, in nearly square patterns, and are detailed in general accordance with ACI Guidelines. Doweling of concrete pavements at critical pathways is also recommended.

Asphalt concrete paved areas should be designed, constructed, and maintained in accordance with, for example, the recommendations of the Asphalt Institute, or other widely recognized authority. Concrete paved areas should be designed and constructed in accordance with the recommendations of the American Concrete Institute or other widely recognized authority, particularly with regard to thickened edges, joints, and drainage. The Standard Specifications for Public Works construction ("Greenbook") or Caltrans Standard Specifications may be referenced for pavement materials specifications.

5.10 Drainage

Foundation and concrete-slab-on grade performance depends greatly on how well the runoff waters drain from the site. This is true both during construction and over the entire life of the structure. The ground surface around structures should be graded so that water flows rapidly away from the structures without ponding. The surface gradient needed to do this depends on the landscaping type.

Should excessive irrigation, waterline breaks, or unusually high rainfall occur, saturated zones and groundwater may develop. Consequently, the site should be graded so that water drains away readily without saturating the foundation or landscaped areas or cascading over slope faces. A potential source of water, such as water pipes, drains, and the like should be frequently examined for signs of leakage or damage. Any such leakage or damage should be repaired promptly. The project Civil Engineers should thoroughly evaluate the on-site drainage and make provisions as necessary to keep surface waters from affecting the site.

5.11 Construction Observation

The recommendations provided in this report are based on limited subsurface information observed, at locations, and within, exploratory borings performed for this project and preliminary concept design proposed construction as of the date of publication. The interpolated subsurface conditions, on which this report relies, should be checked in the field during construction to verify conditions described herein are as anticipated. Any changes which occur to preliminary information provided to this office as of the date of this publication, this office should be notified and afforded an opportunity to update information provided in this report.

Recommendations provided in this report are based on the understanding and assumption that CTE will provide the observation and testing services for the project. All earthworks should be observed and tested to verify that grading activity has been performed according to the recommendations contained within this report. The project engineer should evaluate all footing excavations before reinforcing steel placement. To assure that the recommendations

contained within this report are adhered to the following minimum inspection and testing services should be performed with regard to the geotechnical design of the project.

1. Continuous observation and testing during mass grading.
2. Footing excavation inspection.
3. Periodic Utility trench backfill testing for moisture and relative compaction.
4. Slab subgrade inspection and testing prior to the placement of capillary moisture break materials for moisture and relative compaction.
5. Pavement Class 2 Base inspection and testing prior to the placement of asphalt or concrete pavement.
6. Asphalt relative compaction testing during pavement placement. (Optional)

5.12 Plan Review

CTE should review project grading and foundation plans before the start of earthworks to identify potential conflicts and to verify that the recommendations contained in the report are to be implemented.

6.0 LIMITATIONS OF INVESTIGATION

As indicated, the recommendations presented herein are based on the field exploration, laboratory testing and our geologic and engineering analysis. Following initiation of field testing, these recommendations will be confirmed and or modified, if necessary, based on the materials exposed and re-worked during grading.

The field evaluation, laboratory testing and geotechnical analysis presented in this report have been conducted according to current engineering practice and the standard of care exercised by reputable geotechnical consultants performing similar tasks in this area. No other warranty, expressed or implied, is made regarding the conclusions, recommendations and opinions expressed in this report.

Variations may exist and conditions not observed or described in this report may be encountered during construction. Our conclusions and recommendations are based on an analysis of the observed conditions. If conditions different from those described in this report are encountered, our office should be notified and additional recommendations, if required, will be provided upon request.

We appreciate the opportunity to be of service on this project. Should you have any questions or need further information please do not hesitate to contact this office.

Respectfully submitted,

CTE Cal, INC.

Mike Kennedy, PE 88971
Project Engineer

Selena Gray, EIT
Staff Engineer

KEY MAP

N

NOTES:
Location of site is approximate. Base map from Map Data ©2020 Google Earth.

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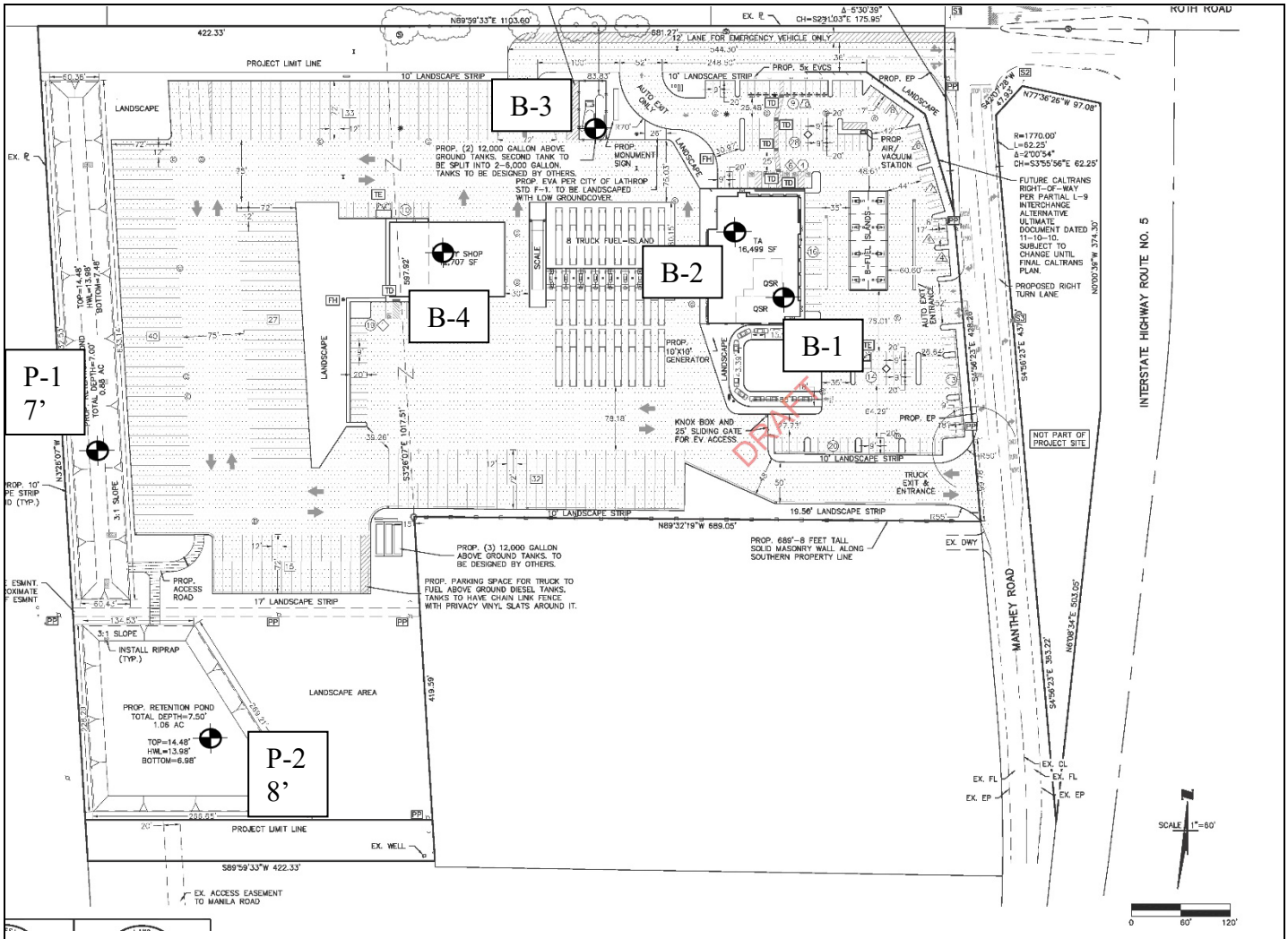
www.ctecal.com

Site Location Map
Full-Service Travel Plaza
11293 S Manthey Rd
Lathrop, California 95330

CTE JOB NO.	
25-1278G	
SCALE	
N.T.S.	
DATE	FIGURE
8/26/2022	1



NOTES:

Location of site is approximate. Base map from Singh Petroleum Investments Inc, Phase 1 & Phase 2 Site plan

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Exploration Location Map
Full-Service Travel Plaza
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Lathrop, CA 95330

CTE JOB NO.	
25-1278G	
SCALE	
N.T.S.	
DATE	FIGURE
08/18/2022	2

APPENDIX A

REFERENCES CITED

1. ACI Design Manual, Section 318, Chapter 4.

2. ASCE/SEI 7-16, 2019, “Minimum Design Loads For Buildings and Other Structures”.

3. ASTM D1557, “Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort,” Volume 04.08.

4. California Department of Water Recourses website: (http://wwwdwr.water.ca.gov/waterdatalibrary/index.cfm)

5. California SGMA Data Viewer Website: (https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels)

6. California Geologic Survey (CGS) website for geologic hazards: (https://maps.conservation.ca.gov/cgs/EQZApp/app/)

7. California Division of Mines and Geology (CDMG), “Geologic Map of the San Francisco-San Jose Quadrangle” (1:250,000; 1991), compiled by Wagner, D.L., Bortugno, E.J., and McJunkin, R.D.

8. FEMA Flood Map Service Center; “CITY OF LATHROP, Flood Zone Map No. 06077C0610F, October 2009.

9. Google Earth aerial imagery.

10. ATC Hazards by Location website (https://hazards.atcouncil.org/#/seismic?) which utilizes USGS hazard data, reference 2016 ASCE 7 Standard.

11. Hart, Earl W., Revised 2007, "Fault-Rupture Hazard Zones in California, Alquist Priolo, Special Studies Zones Act of 1972,” California Division of Mines and Geology, Special Publication 42.

12. Jennings, Charles W., “Fault Map of California”, 2010, CGS.

APPENDIX B

DEFINITION OF TERMS, LEGEND, & BORING LOGS

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DEFINITION OF TERMS

PRIMARY DIVISIONS			SYMBOLS	SECONDARY DIVISIONS
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS < 5% FINES	GW	WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES LITTLE OR NO FINES
			GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OF NO FINES
		GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, NON-PLASTIC FINES
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES, PLASTIC FINES
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS < 5% FINES	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES	SM	SILTY SANDS, SAND-SILT MIXTURES, NON-PLASTIC FINES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES, PLASTIC FINES
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50		ML	INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS, SLIGHTLY PLASTIC CLAYEY SILTS
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY, SANDY, SILTS OR LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTY CLAYS
HIGHLY ORGANIC SOILS			PT	PEAT AND OTHER HIGHLY ORGANIC SOILS

GRAIN SIZES

BOULDERS	COBBLES	GRAVEL		SAND			SILTS AND CLAYS
		COARSE	FINE	COARSE	MEDIUM	FINE	
12"	3"	3/4"	4	10	40	200	

CLEAR SQUARE SIEVE OPENING — U.S. STANDARD SIEVE SIZE

PENETRATION RESISTANCE AND PROPERTIES BASED ON THE SPT (PECK ET AL.)

	SPT (N) Blows/ft	Relative Density		SPT (N) Blows/ft	Consistency
Sands	0-4	Very Loose	Clays	<2	Very Soft
	4-10	Loose		2-4	Soft
	10-30	Medium		4-8	Medium
	30-50	Dense		8-15	Stiff
	Over 50	Very Dense		15-30	Very Stiff
				Over 30	Hard

ADDITIONAL TESTS

(OTHER THAN TEST PIT AND BORING LOG COLUMN HEADINGS)

MAX- Maximum Dry Density	PM- Permeability	PP- Pocket Penetrometer
GS- Grain Size Distribution	SG- Specific Gravity	WA- Wash Analysis
SE- Sand Equivalent	HA- Hydrometer Analysis	DS- Direct Shear
EI- Expansion Index	AL- Atterberg Limits	UC- Unconfined Compression
CHM- Sulfate & Chloride, pH, Resistivity	RV- R-Value	MD- Moisture/Density
COR - Corrosivity	CN- Consolidation	M- Moisture
SD- Sample Disturbed	CP- Collapse Potential	SC- Swell Compression
REM- Remolded	HC- Hydrocollapse	OI- Organic Impurities

FIGURE: BL1

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PROJECT: | DRILLER: | SHEET: of
CTE JOB NO: | DRILL METHOD: | DRILLING DATE:
LOGGED BY: | SAMPLE METHOD: | ELEVATION:

BORING LEGEND

Depth (Feet) | Bulk Sample | Driven Type | Blows/Foot (N) Value | U.S.C.S. Symbol | Graphic Log | DESCRIPTION | Dry Density (pcf) | Moisture (%) | Laboratory Tests

0
5
10
15
20
25

Block or Chunk Sample

Bulk Sample

Standard Penetration Test

Modified Split-Barrel Drive Sampler (Cal Sampler)

Thin Walled Tube Sample (Army Corp. of Engineers)

Direct Penetration Test

Groundwater Table

Soil Grading Change- Minor Deviation

Soil Type or Classification Change

? ? ? ? ? ? ?

Formation Change [(Approximate boundaries queried (?)]

"SM"

Quotes are placed around classifications where the soils exist in situ as bedrock

Boring Terminated

FIGURE: BL2

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PROJECT: Singh Petroleum Investment | DRILLER: West Coast Exploration | SHEET: 1 of 5
CTE JOB NO: 25-1278G | DRILL METHOD: 4" Solid Stem Auger | DRILL DATE: 8/23/2022
LOGGED BY: Daniel Bautista | SAMPLE METHOD(S): SPT Rope & Cathead | ELEV: EGS | DEPTH: 30 ft

BORING: B-1

Depth (Feet)	Bulk Sample	Driven Type	Blowcount Per 6" (N Count)	U.S.C.S. Symbol	Graphic Log	DESCRIPTION	Dry Density (pcf)	Moisture (%)	Laboratory Tests
0			8 27 22 (49)	ML		Hard Low-Plastic SILT (ML) Brown, Dry	93.3	19	FC=56.5%
5			8 12 17 (29)	SM		Medium Dense Silty SAND (SM) Brown, Dry	103.3	11	FC=42.1%
10			17 22 32 (54)	CL		Hard Low-Plastic CLAY (CL) Brown, Damp	104.5	17	FC=60.5%
15			8 12 14 (26)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Damp	102.6	24	FC=91%
20			7 7 10 (17)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Damp	104.7	22	FC=78.2%
25				ML		Very Stiff Low-Plastic SILT (ML) Brown, Wet	99.1	26	FC=66.3%

Continued on next page

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PROJECT: Singh Petroleum Investment	DRILLER: West Coast Exploration		SHEET: 2 of 5
CTE JOB NO: 25-1278G	DRILL METHOD: 4" Solid Stem Auger		DRILL DATE: 8/23/2022
LOGGED BY: Daniel Bautista	SAMPLE METHOD(S): SPT Rope & Cathead	ELEV: EGS	DEPTH: 30 ft

Depth (Feet)	Bulk Sample	Driven Type	Blowcount Per 6" (N Count)	U.S.C.S. Symbol	Graphic Log	BORING: B-1 Cont.	Dry Density (pcf)	Moisture (%)	Laboratory Tests
						DESCRIPTION			
25			8 12 17 (29)	ML		Very Stiff Low-Plastic SILT (ML) Brown, Wet	99.1	26	FC=66.3%
30			22 30 38 (68)	ML		Hard Low-Plastic SILT (ML) Brown, Wet	104.9	23	FC=56.5%
						Boring Terminated @ 30 ft Groundwater Encountered @ 30.5 ft			
35									
40									
45									
50									

Boring Backfilled on 8/23/22

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PROJECT: Singh Petroleum Investment | DRILLER: West Coast Exploration | SHEET: 3 of 5
CTE JOB NO: 25-1278G | DRILL METHOD: 4" Solid Stem Auger | DRILL DATE: 8/23/2022
LOGGED BY: Daniel Bautista | SAMPLE METHOD(S): SPT Rope & Cathead | ELEV: EGS | DEPTH: 15 ft

BORING: B-2

Depth (Feet)	Bulk Sample	Driven Type	Blowcount Per 6" (N Count)	U.S.C.S. Symbol	Graphic Log	DESCRIPTION	Dry Density (pcf)	Moisture (%)	Laboratory Tests
0			6 12 8 (20)	SM		Medium Dense Silty SAND (SM) Brown, Dry			
5			6 8 14 (22)	SM		Medium Dense Silty SAND (SM) Brown, Dry			
10			12 14 27 (41)	CL		Hard Low-Plastic CLAY (CL) Brown, Damp	107.4	19	PL=16 LL= PI =7
15			6 6 10 (16)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Damp			
						Boring Terminated @ 15 ft No Groundwater Encountered			
20									
25									

Boring Backfilled on 8/23/22

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PROJECT: Singh Petroleum Investment	DRILLER: West Coast Exploration		SHEET: 4 of 5
CTE JOB NO: 25-1278G	DRILL METHOD: 4" Solid Stem Auger		DRILL DATE: 8/23/2022
LOGGED BY: Daniel Bautista	SAMPLE METHOD(S): SPT Rope & Cathead	ELEV: EGS	DEPTH: 15 ft

BORING: B-3

Depth (Feet)	Bulk Sample	Driven Type	Blowcount Per 6" (N Count)	U.S.C.S. Symbol	Graphic Log	DESCRIPTION	Dry Density (pcf)	Moisture (%)	Laboratory Tests
0			8 12 14 (26)	SM		Medium Dense Silty SAND (SM) Brown, Dry			
5			5 7 8 (15)	SM		Medium Dense Silty SAND (SM) Brown, Dry			
10			9 17 28 (45)	CL		Hard Low-Plastic CLAY (CL) Brown, Dry			
15			7 9 14 (23)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Dry	108.1	20	PL=15 LL= PI =11
						Boring Terminated @ 15 ft No Groundwater Encountered			
20									
25									

Boring Backfilled on 8/23/22

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PROJECT: Singh Petroleum Investment | DRILLER: West Coast Exploration | SHEET: 5 of 5
CTE JOB NO: 25-1278G | DRILL METHOD: 4" Solid Stem Auger | DRILL DATE: 8/23/2022
LOGGED BY: Daniel Bautista | SAMPLE METHOD(S): SPT Rope & Cathead | ELEV: EGS | DEPTH: 20 ft

BORING: B-4

Depth (Feet)	Bulk Sample	Driven Type	Blowcount Per 6" (N Count)	U.S.C.S. Symbol	Graphic Log	DESCRIPTION	Dry Density (pcf)	Moisture (%)	Laboratory Tests
0			8 12 12 (24)	SM		Medium Dense Silty SAND (SM) Dark Brown, Dry			
5			8 8 12 (20)	SM		Medium Dense Silty SAND (SM) Brown, Dry			
10			14 14 16 (30)	ML		Hard Low-Plastic SILT (ML) Brown, Dry	101.1	24	AL = Non Plastic
15			6 8 14 (22)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Damp			
20			10 12 11 (23)	CL		Very Stiff Low-Plastic CLAY (CL) Brown, Damp			
25						Boring Terminated @ 20 ft No Groundwater Encountered			

Boring Backfilled on 8/23/22

CTE CAL,INC. 3628 MADISON AVENUE, SUITE #22 | SACRAMENTO, CA 95660 | 916.331.6030 | FAX 916.331.6037

PERCOLATION TEST DATA SHEET

PROJECT:	Full Service Travel Plaza	PROJECT No:	25-1278G	TEST DATE:	8/24/2022
Test Hole No:	P-1	Tested By:	DB	DRILL DATE:	8/23/2022
Depth of Test Hole, D_t:	7'	USCS Classification:	Brown, Dry, Silty Fine SAND (SM)		
Test Hole Dimensions (Inches)					
Diameter (if round)=	4"				

PRE_SATURATION

Trial No.	Start Time	Stop Time	Time Interval (min)	Initial Depth to Water (in)	Final Depth to Water (in)	Change in Water Level (in)	Comments:
1	2:42	3:12	30	12.50	1.00	11.50	
2	3:12	3:42	30	12.25	2.50	9.75	

TEST MEASUREMENTS

Trial No.	Start Time	Stop Time	Δt Time Interval (min)	D_o Initial Depth to Water (in)	D_f Final Depth to Water (in)	ΔD Change in Water Level (in)	Percolation Rate (min./in.)
1	3:42	3:52	10	6.0	3.50	2.50	4.0
2	3:52	4:02	10	6.0	3.75	2.25	4.4
3	3:42	3:52	10	6.0	3.75	2.25	4.4
4	3:52	4:02	10	6.0	3.75	2.25	4.4
5	3:42	3:52	10	6.0	3.75	2.25	4.4
6	3:52	4:02	10	6.0	3.75	2.25	4.4
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Comments: Final Steady Percolation Rate = 4.4 min/inch

See attachment for conversion to gal/sf per day

Test hole Cement backfilled 8/24/22

CTE CAL,INC. 3628 MADISON AVENUE, SUITE #22 | SACRAMENTO, CA 95660 | 916.331.6030 | FAX 916.331.6037

PERCOLATION TEST DATA SHEET

PROJECT:	Full Service Travel Plaza	PROJECT No:	25-1278G	TEST DATE:	8/24/2022
Test Hole No:	P-2	Tested By:	DB	DRILL DATE:	8/23/2022
Depth of Test Hole, D_t:	7'	USCS Classification:	Brown, Dry, Silty Fine SAND (SM)		
Test Hole Dimensions (Inches)					
Diameter (if round)=	4"				

PRE_SATURATION

Trial No.	Start Time	Stop Time	Time Interval (min)	Initial Depth to Water (in)	Final Depth to Water (in)	Change in Water Level (in)	Comments:
1	11:06	12:06	30	12.00	1.00	11.00	
2	12:06	12:36	30	12.75	3.75	9.00	

TEST MEASUREMENTS

Trial No.	Start Time	Stop Time	Δt Time Interval (min)	D_o Initial Depth to Water (in)	D_f Final Depth to Water (in)	ΔD Change in Water Level (in)	Percolation Rate (min./in.)
1	12:36	12:46	10	6.0	3.75	2.25	4.4
2	12:46	12:56	10	6.0	4.00	2.00	5.0
3	12:56	1:06	10	6.0	4.00	2.00	5.0
4	1:06	1:16	10	6.0	4.00	2.00	5.0
5	1:16	1:26	10	6.0	4.00	2.00	5.0
6	1:26	1:36	10	6.0	4.00	2.00	5.0
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Comments: Final Steady Percolation Rate = 5 min/inch

See attachment for conversion to gal/sf per day

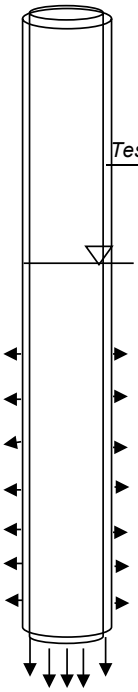
Test hole Cement backfilled 8/24/22

CTE CAL,INC. 4230 Kiernan Ave., Ste. 150 | Modesto, CA 95356 | Ph: (209) 543 - 1799 | Fax: (209) 543-1775

CTE# 25-1278G

INFILTRATION RATE PER PORCHET METHOD

Reference: "Riverside County-Low Impact Development BMP Design Handbook" (Page 20)



Percolation Data at the Final Interval

Test No.	*Radius*	*Time Interval (Δt)*	*Initial Depth of Water in inches (D_o)*	*Final Depth of Water in inches (D_f)*	*Change in Height of Water in inches (ΔH)*	*Average Head Over Time Interval in inches (H_{avg})*
P-1:	2.0	10.00	6.00	3.75	2.25	4.88
P-2:	2.0	10.00	6.00	4.00	2.00	5.00

Infiltration Rate $It=(\Delta H\ 60\ r)/\Delta t(r+2H_{avg})$

P-1: It = (2.25 in)(60 min/hr)(2 in) / (10 min) (2 in + 2(4.88 in))= 2.30 in/hr

P-2: It = (2.00 in)(60 min/hr)(2 in) / (10 min) (2 in + 2(5.00 in))= 2.00 in/hr

Infiltration Rate in gal/sf/day = (It in/hr)(24 hr/day)(7.48 gal / cf)(ft/12 in)

P-1= ((2.30)(24)(7.48))/12= 34.4 gal/sf/day

P-1= ((2.00)(24)(7.48))/12= 29.9 gal/sf/day

APPENDIX C

LABORATORY METHODS AND RESULTS

Laboratory tests were performed on representative soil samples to detect their relative engineering properties. Tests were performed following test methods of the American Society for Testing Materials or other accepted standards. The following presents a brief description of the various test methods used. The result of the laboratory tests is presented on the test boring logs or following this Appendix section.

Natural Moisture Content

The procedure of ASTM D2216 was used to measure the moisture content of representative samples.

Classification

Soils were classified visually according to the Unified Soil Classification System. Visual classifications were supplemented by laboratory testing of selected samples according to ASTM D2487.

Atterberg Limits

The procedure of ASTM D4318 was used to measure the liquid limit, plastic limit and plasticity index of representative samples.

Material Finer than No. 200 Sieve

Particle-size analyses were performed on selected representative samples according to ASTM D1140.

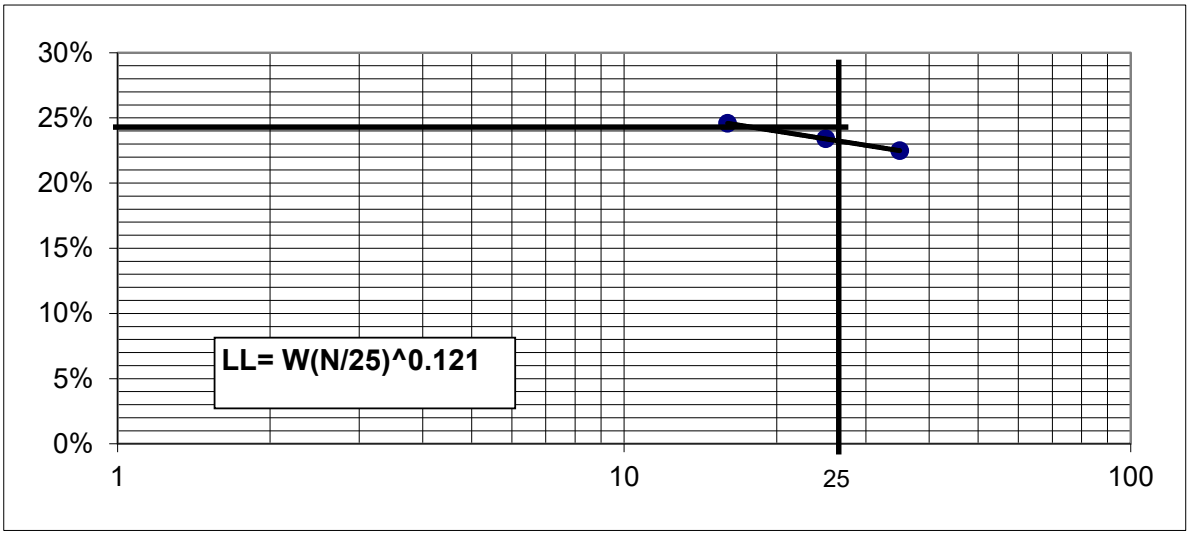
Job Name: Singh Petroleum Investments **Date:** 08/23/22

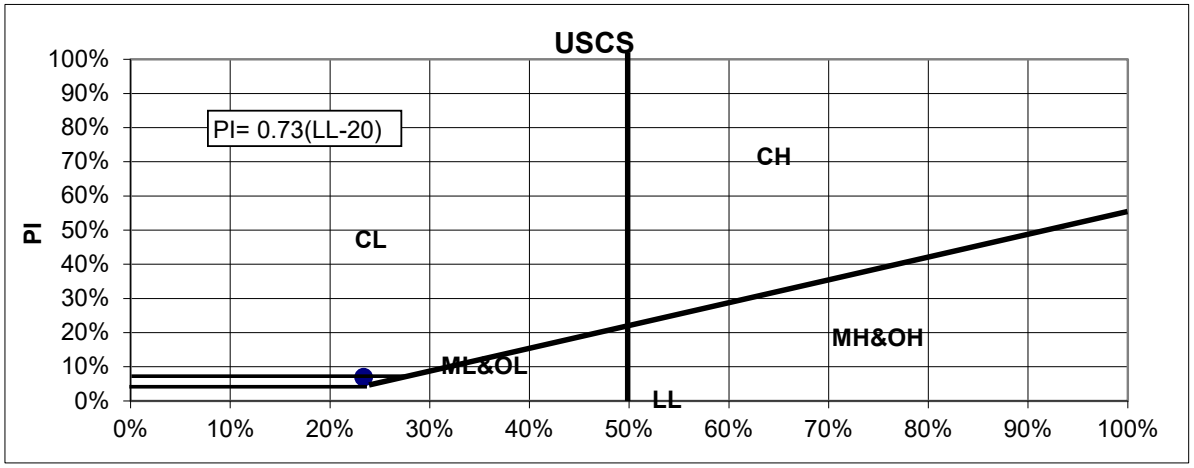
Job Number: 25-1278G **Site#:** B-2 @ 10

Sample Nr. : 2112

ATTERBERG

	LIQUID LIMITS					PLASTIC LIMIT	
WET SOIL	24.14	24.06	31.13			10.94	11.31
DRY SOIL	22.08	22.08	29.12			10.62	10.92
TARE	13.70	13.62	20.18			8.65	8.57
WATER	2.06	1.98	2.01			0.32	0.39
# BLOWS	**16**	**25**	**35**				
% MOIST	**24.58%**	**23.40%**	**22.48%**			**16.24%**	**16.60%**
					LL	**PL**	**PI**
ONE POINT	**23.3%**	**23.4%**	**23.4%**		**23%**	**16%**	**7%**





REVIEWED BY: _____ **DATE:** _____

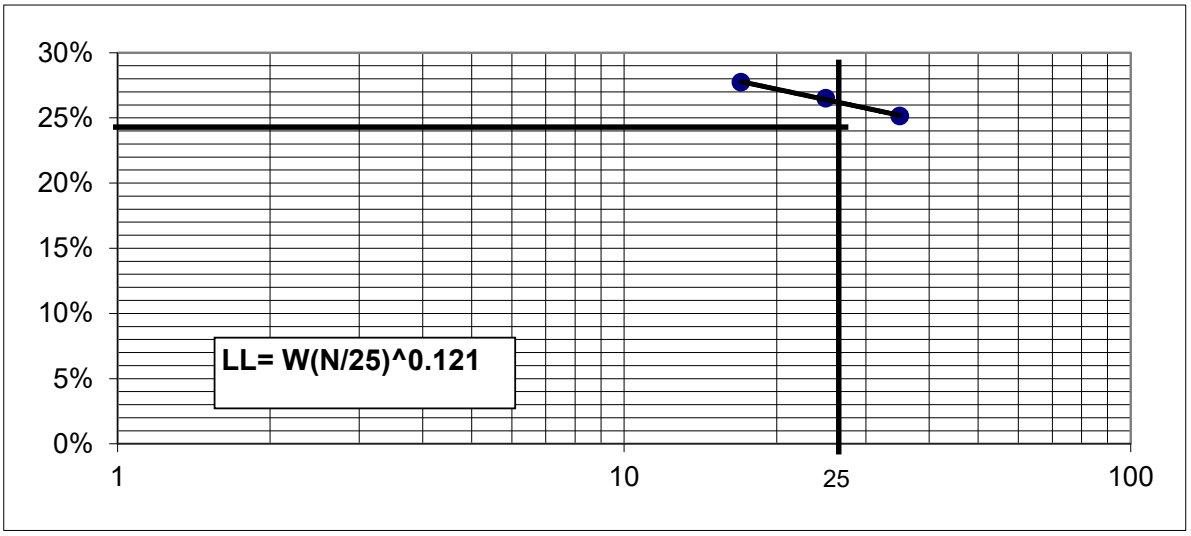
Job Name: Singh Petroleum Investments **Date:** 08/23/22

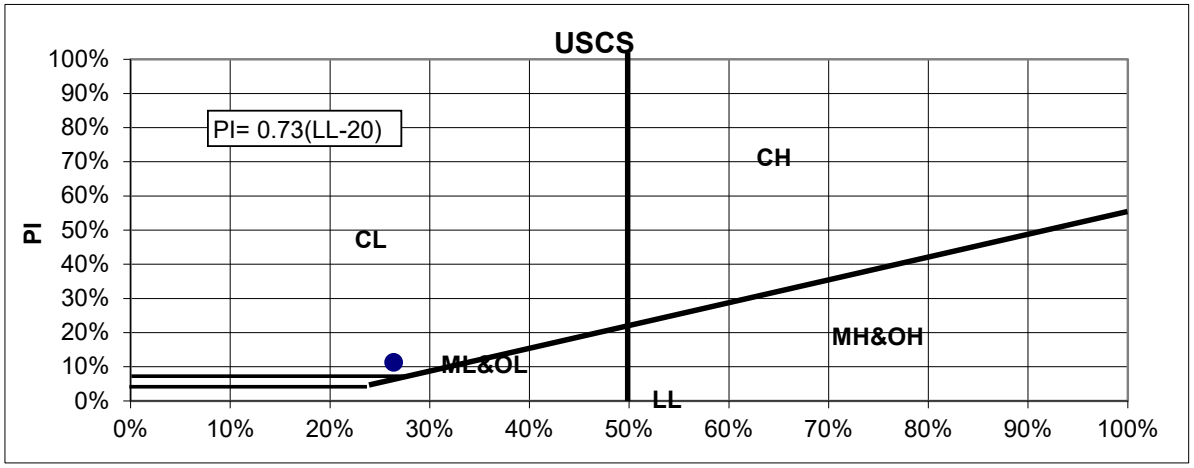
Job Number: 25-1278G **Site#:** B-3 @ 15

Sample Nr. : 2112

ATTERBERG

	LIQUID LIMITS					PLASTIC LIMIT	
WET SOIL	30.11	25.42	28.90			10.63	10.51
DRY SOIL	27.96	22.96	27.16			10.38	10.24
TARE	20.21	13.68	20.24			8.73	8.45
WATER	2.15	2.46	1.74			0.25	0.27
# BLOWS	**17**	**25**	**35**				
% MOIST	**27.74%**	**26.51%**	**25.14%**			**15.15%**	**15.08%**
					LL	**PL**	**PI**
ONE POINT	**26.5%**	**26.5%**	**26.2%**		**26%**	**15%**	**11%**





REVIEWED BY: _____ **DATE:** _____

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 2

Initial Dry Wt. + Tare (g): 226

Oven Dry Wt. + Tare (g): 98.2

Tare: 0

Soil Loss (g): 127.8

Percent Finer than # 200 Sieve: **56.5%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 5

Initial Dry Wt. + Tare (g): 250.6

Oven Dry Wt. + Tare (g): 145

Tare: 0

Soil Loss (g): 105.6

Percent Finer than # 200 Sieve: **42.1%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 10

Initial Dry Wt. + Tare (g): 253.5

Oven Dry Wt. + Tare (g): 100.1

Tare: 0

Soil Loss (g): 153.4

Percent Finer than # 200 Sieve: **60.5%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 15

Initial Dry Wt. + Tare (g):	248.9	Oven Dry Wt. + Tare (g):	22.5
Tare:	0	Soil Loss (g):	226.4

Percent Finer than # 200 Sieve: **91.0%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 20

Initial Dry Wt. + Tare (g): 254

Oven Dry Wt. + Tare (g): 55.3

Tare: 0

Soil Loss (g): 198.7

Percent Finer than # 200 Sieve: **78.2%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 25

Initial Dry Wt. + Tare (g):	240.1	Oven Dry Wt. + Tare (g):	80.9
Tare:	0	Soil Loss (g):	159.2

Percent Finer than # 200 Sieve: **66.3%**

Reviewed By: Brian Williams

Date: **8/26/2022**

Laboratory Manager

Material Finer than #200 Sieve

ASTM D-1140

Project Name: Singh Petroleum Investments

Date Received: 8/23/2022

Project #: 25-1278G

Sampled By: Danny

Sample Description:

Lab #: 2112

Sample Location: B-1 @ 30

Initial Dry Wt. + Tare (g): 254.5

Oven Dry Wt. + Tare (g): 110.7

Tare: 0

Soil Loss (g): 143.8

Percent Finer than # 200 Sieve: **56.5%**

Reviewed By: Brian Williams

Date: **8/26/2022**

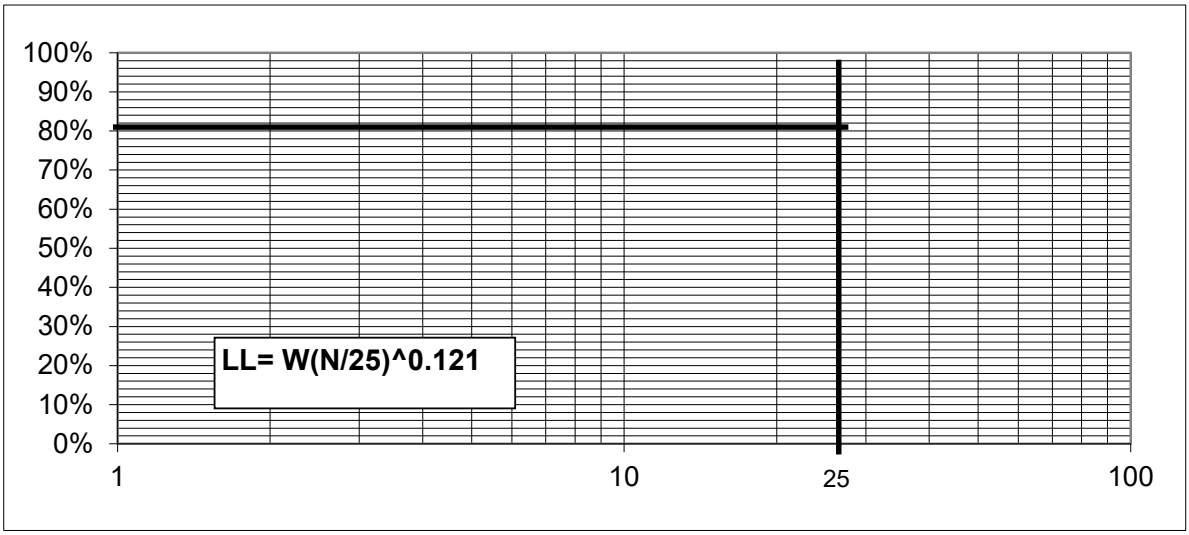
Laboratory Manager

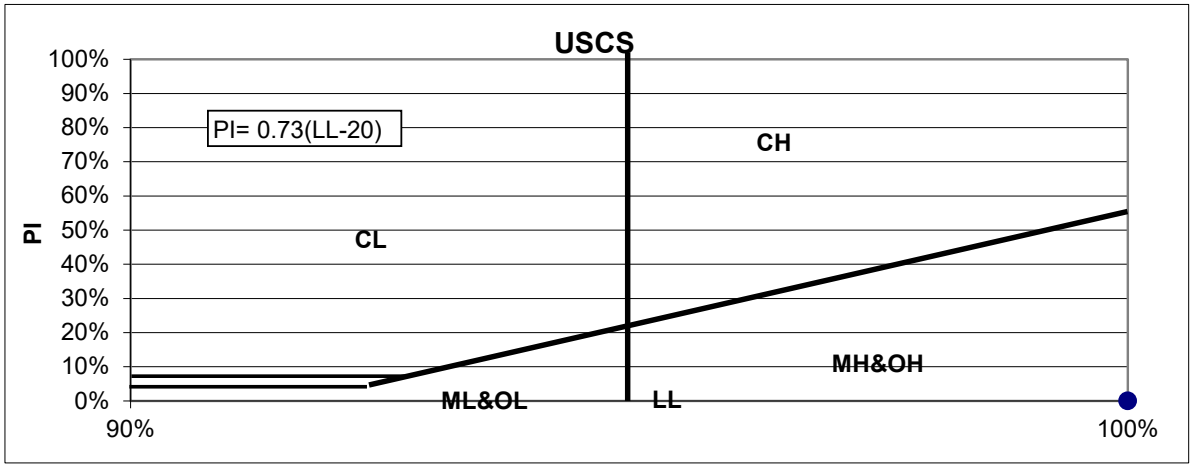
Job Name:	Singh Petroleum Investments	**Date:**	08/23/22
Job Number:	25-1278G	**Boring:**	B-4
Sample Nr. :	2112	**Depth:**	10

ATTERBERG

	LIQUID LIMITS					PLASTIC LIMIT	
WET SOIL							
DRY SOIL							
TARE							
WATER	0.00	0.00	0.00	0.00		0.00	0.00
# BLOWS							
% MOIST							
					LL	**PL**	**PI**
ONE POINT							**#VALUE!**

Non Plastic





REVIEWED BY: Brian Williams **DATE:** 8/26/2022

MOISTURE & DENSITY TEST

Project Number: 25-1278G **Sample Date:** 8/23/2022

Project Name: Singh Petroleum Investments **Lab Number:** 2112

Sample No.	B-1	B-1	B-1	B-1	B-1
DEPTH FT	2	5	10	15	20
SAMPLE HT	6	6	6	6	6
TUBE DIA.	1.4	1.4	1.4	1.4	1.4
Pan Wt	0	0	0	0	0
SOIL+Tube+Pan	397.8	399.6	430.7	449.7	433.4
Tube Wt	128.2	122.7	133.5	142	122.9
SOIL WET	269.6	276.9	297.2	307.7	310.5
SOIL LB	0.59436	0.60991	0.65463	0.67775	0.68392
VOL SOIL	0.00534	0.00534	0.00534	0.00534	0.00534
WET DENS	111.3	114.2	122.5	126.9	128.0
DRY WT					
SOIL DRY	226	250.6	253.5	248.9	254
% MOIST	19.3%	10.5%	17.2%	23.6%	22.2%
DRY DENS	93.3	103.3	104.5	102.6	104.7

Reviewed By: Brian Williams Date: August 26, 2022

Laboratory Manager

MOISTURE & DENSITY TEST

Project Number: 25-1278G **Sample Date:** 8/23/2022

Project Name: Singh Petroleum Investments **Lab Number:** 2112 / MD #2

Sample No.	B-1	B-1	B-2	B-3	B-4
DEPTH FT	25	30	10	15	10
SAMPLE HT	6	6	6	6	6
TUBE DIA.	1.4	1.4	1.4	1.4	1.4
Pan Wt	0	0	0	0	0
SOIL+Tube+Pan	434.1	454.4	451.2	448.9	444.7
Tube Wt	131.7	140.7	140.9	133.6	141.3
SOIL WET	302.4	313.7	310.3	315.3	303.4
SOIL LB	0.66667	0.69097	0.68348	0.69449	0.66828
VOL SOIL	0.00534	0.00534	0.00534	0.00534	0.00534
WET DENS	124.8	129.3	127.9	130.0	125.1
DRY WT					
SOIL DRY	240.1	254.5	260.4	262.2	245.2
% MOIST	25.9%	23.3%	19.2%	20.3%	23.7%
DRY DENS	99.1	104.9	107.4	108.1	101.1

Reviewed By: Brian Williams
Laboratory Manager

Date: August 26, 2022

APPENDIX D

STANDARD SPECIFICATIONS FOR GRADING

Section 1 - General

CTE, Cal, Inc. (CTE) presents the following standard recommendations for grading and other associated operations on construction projects. These guidelines should be considered a portion of the project specifications. Recommendations contained in the body of the previously presented soils report shall supersede the recommendations and or requirements as specified herein. The project geotechnical consultant shall interpret disputes arising out of interpretation of the recommendations contained in the soils report or specifications contained herein.

Section 2 - Responsibilities of Project Personnel

The geotechnical consultant should provide observation and testing services sufficient to general conformance with project specifications and standard grading practices. The geotechnical consultant should report any deviations to the client or his authorized representative.

The Client should be chiefly responsible for all aspects of the project. He or his authorized representative has the responsibility of reviewing the findings and recommendations of the geotechnical consultant. He shall authorize or cause to have authorized the Contractor and/or other consultants to perform work and/or provide services. During grading the Client or his authorized representative should remain on-site or should remain reasonably accessible to all concerned parties in order to make decisions necessary to maintain the flow of the project.

The Contractor is responsible for the safety of the project and satisfactory completion of all grading and other associated operations on construction projects, including, but not limited to, earth work in accordance with the project plans, specifications and controlling agency requirements.

Section 3 - Preconstruction Meeting

A preconstruction site meeting should be arranged by the owner and/or client and should include the grading contractor, design engineer, geotechnical consultant, owner's representative and representatives of the appropriate governing authorities.

Section 4 - Site Preparation

The client or contractor should obtain the required approvals from the controlling authorities for the project prior, during and/or after demolition, site preparation and removals, etc. The appropriate approvals should be obtained prior to proceeding with grading operations.

Clearing and grubbing should consist of the removal of vegetation such as brush, grass, woods, stumps, trees, root of trees and otherwise deleterious natural materials from the areas to be graded. Clearing and grubbing should extend to the outside of all proposed excavation and fill areas.

Demolition should include removal of buildings, structures, foundations, reservoirs, utilities (including underground pipelines, septic tanks, leach fields, seepage pits, cisterns, mining shafts, tunnels, etc.) and other man-made surface and subsurface improvements from the areas to be graded. Demolition of utilities should include proper capping and/or rerouting pipelines at the project perimeter and cutoff and capping of wells in accordance with the requirements of the governing authorities and the recommendations of the geotechnical consultant at the time of demolition.

Trees, plants or man-made improvements not planned to be removed or demolished should be protected by the contractor from damage or injury.

Debris generated during clearing, grubbing and/or demolition operations should be wasted from areas to be graded and disposed off-site. Clearing, grubbing and demolition operations should be performed under the observation of the geotechnical consultant.

Section 5 - Site Protection

Protection of the site during the period of grading should be the responsibility of the contractor. Unless other provisions are made in writing and agreed upon among the concerned parties, completion of a portion of the project should not be considered to preclude that portion or adjacent areas from the requirements for site protection until such time as the entire project is complete as identified by the geotechnical consultant, the client and the regulating agencies.

Precautions should be taken during the performance of site clearing, excavations and grading to protect the work site from flooding, ponding or inundation by poor or improper surface drainage. Temporary provisions should be made during the rainy season to adequately direct surface drainage away from and off the work site. Where low areas cannot be avoided, pumps should be kept on hand to continually remove water during periods of rainfall.

Rain related damage should be considered to include, but may not be limited to, erosion, silting, saturation, swelling, structural distress and other adverse conditions as determined by the geotechnical consultant. Soil adversely affected should be classified as unsuitable materials and should be subject to overexcavation and replacement with compacted fill or other remedial grading as recommended by the geotechnical consultant.

The contractor should be responsible for the stability of all temporary excavations. Recommendations by the geotechnical consultant pertaining to temporary excavations (e.g., backcuts) are made in consideration of stability of the completed project and, therefore, should not be considered to preclude the responsibilities of the contractor. Recommendations by the geotechnical consultant should not be considered to preclude requirements that are more restrictive by the regulating agencies. The contractor should provide during periods of extensive rainfall plastic sheeting to prevent unprotected slopes from becoming saturated and unstable. When deemed appropriate by the geotechnical consultant or governing agencies the contractor shall install checkdams, desilting basins, sand bags or other drainage control measures.

In relatively level areas and/or slope areas, where saturated soil and/or erosion gullies exist to depths of greater than 1.0 foot; they should be overexcavated and replaced as compacted fill in accordance with the applicable specifications. Where affected materials exist to depths of 1.0 foot or less below proposed finished grade, remedial grading by moisture conditioning in-place, followed by thorough recompaction in accordance with the applicable grading guidelines herein may be attempted. If the desired results are not achieved, all affected materials should be overexcavated and replaced as compacted fill in accordance with the slope repair recommendations herein. If field conditions dictate, the geotechnical consultant may recommend other slope repair procedures.

Section 6 - Excavations

6.1 Unsuitable Materials

Materials that are unsuitable should be excavated under observation and recommendations of the geotechnical consultant. Unsuitable materials include, but may not be limited to, dry, loose, soft, wet, organic compressible natural soils and fractured, weathered, soft bedrock and nonengineered or otherwise deleterious fill materials.

Material identified by the geotechnical consultant as unsatisfactory due to its moisture conditions should be overexcavated; moisture conditioned as needed, to a uniform at or above optimum moisture condition before placement as compacted fill.

If during the course of grading adverse geotechnical conditions are exposed which were not anticipated in the preliminary soil report as determined by the geotechnical consultant additional exploration, analysis, and treatment of these problems may be recommended.

6.2 Cut Slopes

Unless otherwise recommended by the geotechnical consultant and approved by the regulating agencies, permanent cut slopes should not be steeper than 2:1 (horizontal: vertical).

The geotechnical consultant should observe cut slope excavation and if these excavations expose loose cohesionless, significantly fractured or otherwise unsuitable material, the materials should be overexcavated and replaced with a compacted stabilization fill. If encountered specific cross section details should be obtained from the Geotechnical Consultant.

When extensive cut slopes are excavated or these cut slopes are made in the direction of the prevailing drainage, a non-erodible diversion swale (brow ditch) should be provided at the top of the slope.

6.3 Pad Areas

All lot pad areas, including side yard terrace containing both cut and fill materials, transitions, located less than 3 feet deep should be overexcavated to a depth of 3 feet and replaced with a uniform compacted fill blanket of 3 feet. Actual depth of overexcavation may vary and should be delineated by the geotechnical consultant during grading, especially where deep or drastic transitions are present.

For pad areas created above cut or natural slopes, positive drainage should be established away from the top-of-slope. This may be accomplished utilizing a berm drainage swale and/or an appropriate pad gradient. A gradient in soil areas away from the top-of-slopes of 2 percent or greater is recommended.

Section 7 - Compacted Fill

All fill materials should have fill quality, placement, conditioning and compaction as specified below or as approved by the geotechnical consultant.

7.1 Fill Material Quality

Excavated on-site or import materials which are acceptable to the geotechnical consultant may be utilized as compacted fill, provided trash, vegetation and other deleterious materials are removed prior to placement. All import materials anticipated for use on-site should be sampled tested and approved prior to and placement is in conformance with the requirements outlined.

Rocks 12 inches in maximum and smaller may be utilized within compacted fill provided sufficient fill material is placed and thoroughly compacted over and around all rock to effectively fill rock voids. The amount of rock should not exceed 40 percent by dry weight passing the 3/4-inch sieve. The geotechnical consultant may vary those requirements as field conditions dictate.

Where rocks greater than 12 inches but less than four feet of maximum dimension are generated during grading, or otherwise desired to be placed within an engineered fill, special handling in accordance with the recommendations below. Rocks greater than four feet should be broken down or disposed off-site.

7.2 Placement of Fill

Prior to placement of fill material, the geotechnical consultant should observe and approve the area to receive fill. After observation and approval, the exposed ground surface should be scarified to a depth of 6 to 8 inches. The scarified material should be conditioned (i.e. moisture added or air dried by continued discing) to achieve a moisture content at or slightly above optimum moisture conditions and compacted to a minimum of 90 percent of the maximum density or as otherwise recommended in the soils report or by appropriate government agencies.

Compacted fill should then be placed in thin horizontal lifts not exceeding eight inches in loose thickness prior to compaction. Each lift should be moisture conditioned as needed, thoroughly blended to achieve a consistent moisture content at or slightly above optimum and thoroughly compacted by mechanical methods to a minimum of 90 percent of laboratory maximum dry density. Each lift should be treated in a like manner until the desired finished grades are achieved.

The contractor should have suitable and sufficient mechanical compaction equipment and watering apparatus on the job site to handle the amount of fill being placed in consideration of moisture retention properties of the materials and weather conditions.

When placing fill in horizontal lifts adjacent to areas sloping steeper than 5:1 (horizontal: vertical), horizontal keys and vertical benches should be excavated into the adjacent slope area. Keying and benching should be sufficient to provide at least six-foot wide benches and a minimum of four feet of vertical bench height within the firm natural ground, firm bedrock or engineered compacted fill. No compacted fill should be placed in an area after keying and benching until the geotechnical consultant has reviewed the area. Material generated by the benching operation should be moved sufficiently away from

the bench area to allow for the recommended review of the horizontal bench prior to placement of fill.

Within a single fill area where grading procedures dictate two or more separate fills, temporary slopes (false slopes) may be created. When placing fill adjacent to a false slope, benching should be conducted in the same manner as above described. At least a 3-foot vertical bench should be established within the firm core of adjacent approved compacted fill prior to placement of additional fill. Benching should proceed in at least 3-foot vertical increments until the desired finished grades are achieved.

Prior to placement of additional compacted fill following an overnight or other grading delay, the exposed surface or previously compacted fill should be processed by scarification, moisture conditioning as needed to at or slightly above optimum moisture content, thoroughly blended and recompacted to a minimum of 90 percent of laboratory maximum dry density. Where unsuitable materials exist to depths of greater than one foot, the unsuitable materials should be over-excavated.

Following a period of flooding, rainfall or overwatering by other means, no additional fill should be placed until damage assessments have been made and remedial grading performed as described herein.

Rocks 12 inch in maximum dimension and smaller may be utilized in the compacted fill provided the fill is placed and thoroughly compacted over and around all rock. No oversize material should be used within 3 feet of finished pad grade and within 1 foot of other compacted fill areas. Rocks 12 inches up to four feet maximum dimension should be placed below the upper 10 feet of any fill and should not be closer than 15 feet to any slope face. These recommendations could vary as locations of improvements dictate. Where practical, oversized material should not be placed below areas where structures or deep utilities are proposed. Oversized material should be placed in windrows on a clean, overexcavated or unyielding compacted fill or firm natural ground surface. Select native or imported granular soil (S.E. 30 or higher) should be placed and thoroughly flooded over and around all windrowed rock, such that voids are filled. Windrows of oversized material should be staggered so those successive strata of oversized material are not in the same vertical plane.

It may be possible to dispose of individual larger rock as field conditions dictate and as recommended by the geotechnical consultant at the time of placement.

The contractor should assist the geotechnical consultant and/or his representative by digging test pits for removal determinations and/or for testing compacted fill. The contractor should provide this work at no additional cost to the owner or contractor's client.

Fill should be tested by the geotechnical consultant for compliance with the recommended relative compaction and moisture conditions. Field density testing should conform to ASTM Method of Test D 1556-00, D 2922-04. Tests should be conducted at a minimum of approximately two vertical feet or approximately 1,000 to 2,000 cubic yards of fill placed. Actual test intervals may vary as field conditions dictate. Fill found not to be in conformance with the grading recommendations should be removed or otherwise handled as recommended by the geotechnical consultant.

7.3 Fill Slopes

Unless otherwise recommended by the geotechnical consultant and approved by the regulating agencies, permanent fill slopes should not be steeper than 2:1 (horizontal: vertical).

Except as specifically recommended in these grading guidelines compacted fill slopes should be over-built two to five feet and cut back to grade, exposing the firm, compacted fill inner core. The actual amount of overbuilding may vary as field conditions dictate. If the desired results are not achieved, the existing slopes should be overexcavated and reconstructed under the guidelines of the geotechnical consultant. The degree of overbuilding shall be increased until the desired compacted slope surface condition is achieved. Care should be taken by the contractor to provide thorough mechanical compaction to the outer edge of the overbuilt slope surface.

At the discretion of the geotechnical consultant, slope face compaction may be attempted by conventional construction procedures including backrolling. The procedure must create a firmly compacted material throughout the entire depth of the slope face to the surface of the previously compacted firm fill intercore.

During grading operations, care should be taken to extend compactive effort to the outer edge of the slope. Each lift should extend horizontally to the desired finished slope surface or more as needed to ultimately established desired grades. Grade during construction should not be allowed to roll off at the edge of the slope. It may be helpful to elevate slightly the outer edge of the slope. Slough resulting from the placement of individual lifts should not be allowed to drift down over previous lifts. At intervals not

exceeding four feet in vertical slope height or the capability of available equipment, whichever is less, fill slopes should be thoroughly dozer trackrolled.

For pad areas above fill slopes, positive drainage should be established away from the top-of-slope. This may be accomplished using a berm and pad gradient of at least two percent.

Section 8 - Trench Backfill

Utility and/or other excavation of trench backfill should, unless otherwise recommended, be compacted by mechanical means. Unless otherwise recommended, the degree of compaction should be a minimum of 90 percent of the laboratory maximum density.

Within slab areas, but outside the influence of foundations, trenches up to one foot wide and two feet deep may be backfilled with sand and consolidated by jetting, flooding or by mechanical means. If on-site materials are utilized, they should be wheel-rolled, tamped or otherwise compacted to a firm condition. For minor interior trenches, density testing may be deleted or spot testing may be elected if deemed necessary, based on review of backfill operations during construction.

If utility contractors indicate that it is undesirable to use compaction equipment in close proximity to a buried conduit, the contractor may elect the utilization of light weight mechanical compaction equipment and/or shading of the conduit with clean, granular material, which should be thoroughly jetted in-place above the conduit, prior to initiating mechanical compaction procedures. Other methods of utility trench compaction may also be appropriate, upon review of the geotechnical consultant at the time of construction.

In cases where clean granular materials are proposed for use in lieu of native materials or where flooding or jetting is proposed, the procedures should be considered subject to review by the geotechnical consultant. Clean granular backfill and/or bedding are not recommended in slope areas.

Section 9 - Drainage

Where deemed appropriate by the geotechnical consultant, canyon subdrain systems should be installed in accordance with CTE's recommendations during grading.

Typical subdrains for compacted fill buttresses, slope stabilization or sidehill masses, should be installed in accordance with the specifications.

Roof, pad and slope drainage should be directed away from slopes and areas of structures to suitable disposal areas via non-erodible devices (i.e., gutters, downspouts, and concrete swales).

For drainage in extensively landscaped areas near structures, (i.e., within four feet) a minimum of 5 percent gradient away from the structure should be maintained. Pad drainage of at least 2 percent should be maintained over the remainder of the site.

Drainage patterns established at the time of fine grading should be maintained throughout the life of the project. Property owners should be made aware that altering drainage patterns could be detrimental to slope stability and foundation performance.

Section 10 - Slope Maintenance

10.1 - Landscape Plants

To enhance surficial slope stability, slope planting should be accomplished at the completion of grading. Slope planting should consist of deep-rooting vegetation requiring little watering. Plants native to the southern California area and plants relative to native plants are generally desirable. Plants native to other semi-arid and arid areas may also be appropriate. A Landscape Architect should be the best party to consult regarding actual types of plants and planting configuration.

10.2 - Irrigation

Irrigation pipes should be anchored to slope faces, not placed in trenches excavated into slope faces.

Slope irrigation should be minimized. If automatic timing devices are utilized on irrigation systems, provisions should be made for interrupting normal irrigation during periods of rainfall.

10.3 - Repair

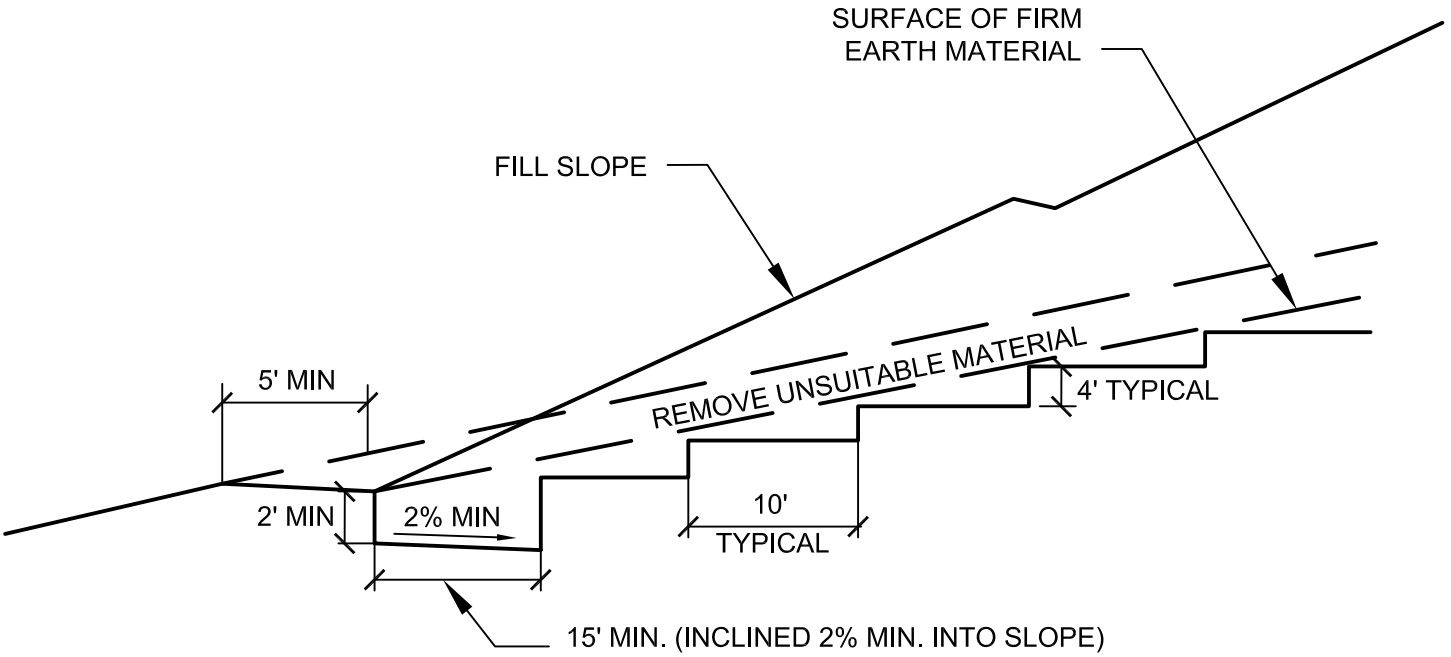
As a precautionary measure, plastic sheeting should be readily available, or kept on hand, to protect all slope areas from saturation by periods of heavy or prolonged rainfall. This measure is strongly recommended, beginning with the period prior to landscape planting.

If slope failures occur, the geotechnical consultant should be contacted for a field review of site conditions and development of recommendations for evaluation and repair.

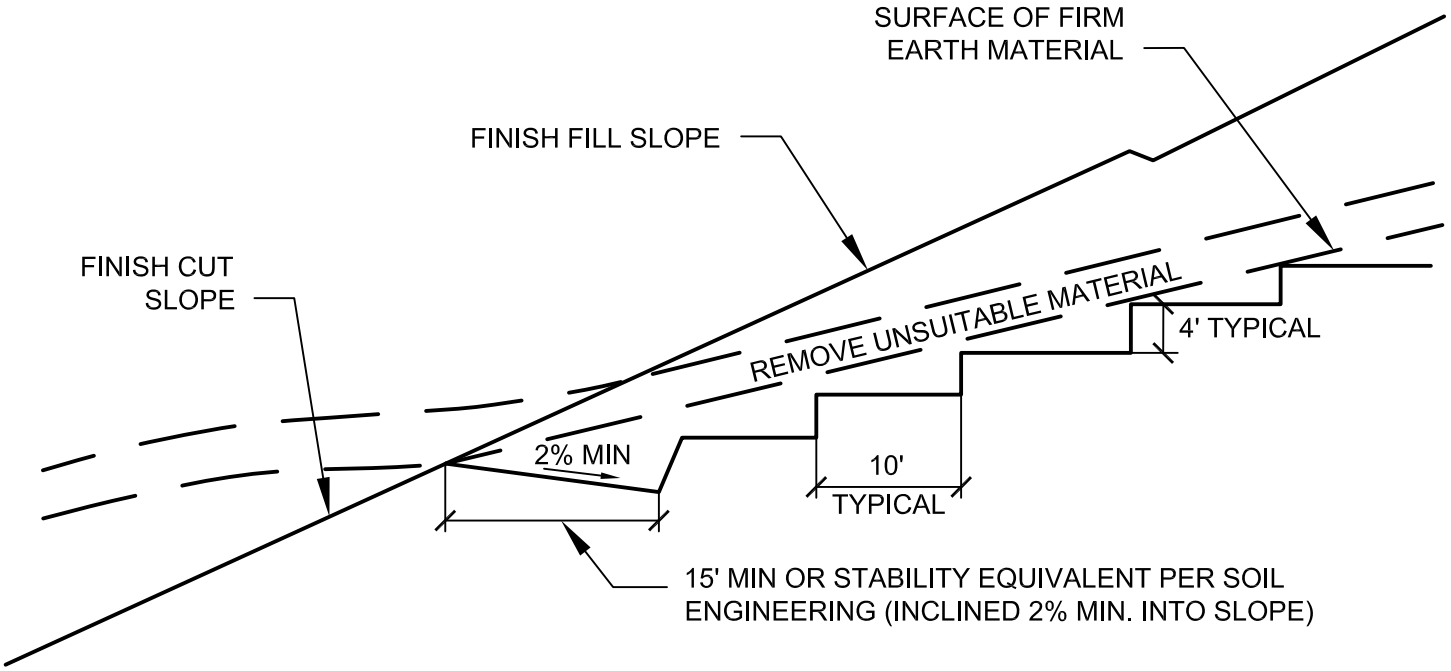
If slope failures occur as a result of exposure to period of heavy rainfall, the failure areas and currently unaffected areas should be covered with plastic sheeting to protect against additional saturation.

In the accompanying Standard Details, appropriate repair procedures are illustrated for superficial slope failures (i.e., occurring typically within the outer one foot to three feet of a slope face).

BENCHING FILL OVER NATURAL

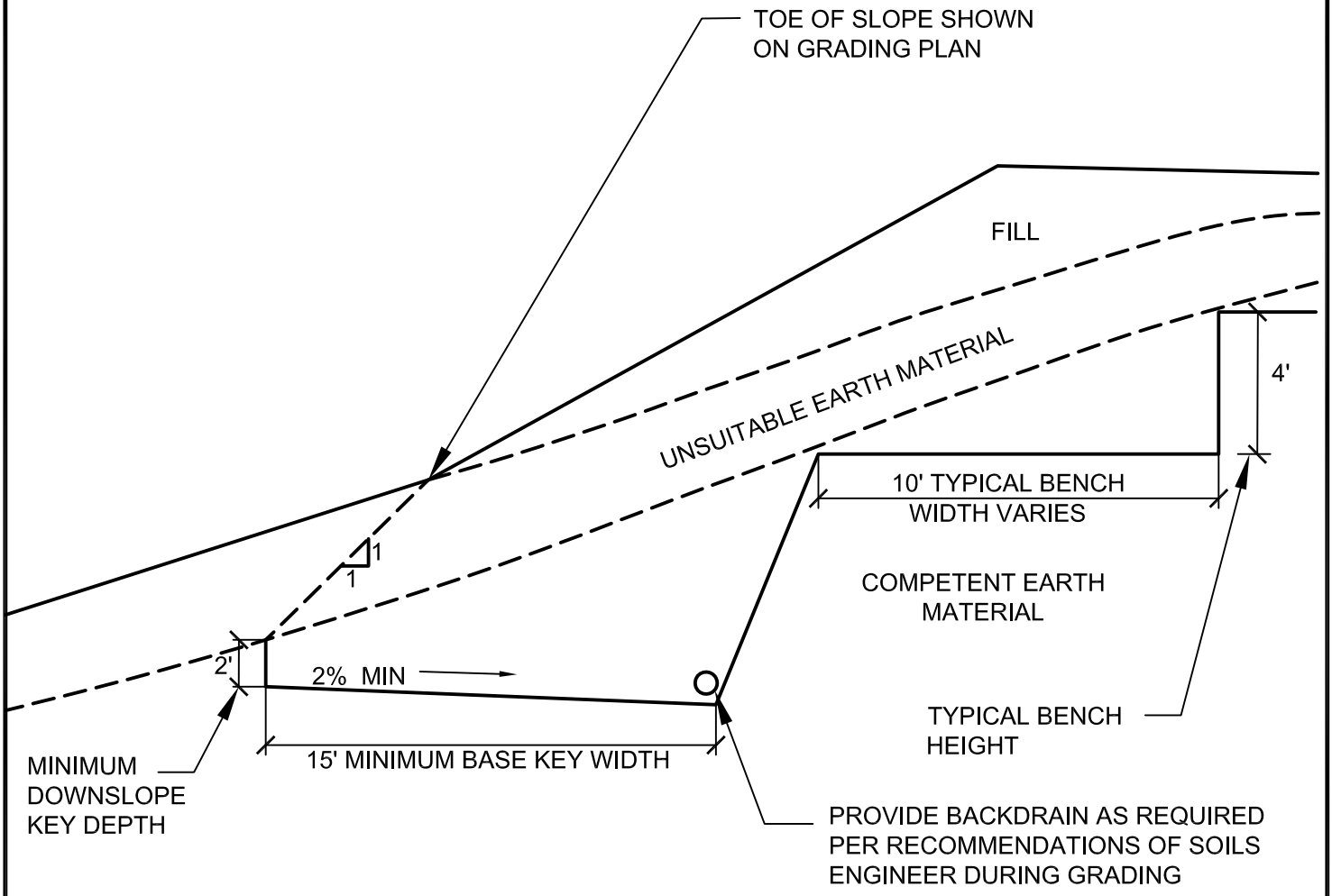


BENCHING FILL OVER CUT



NOT TO SCALE

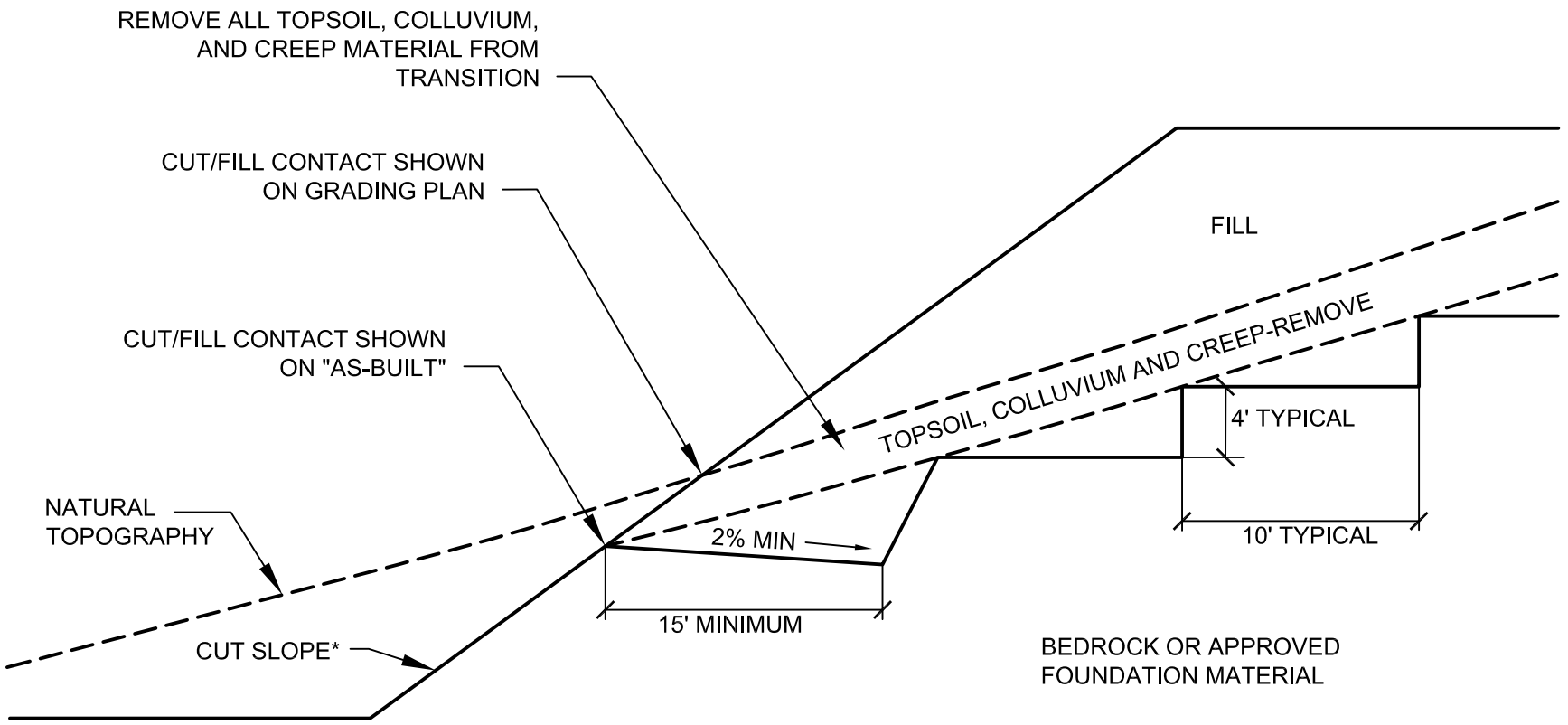
BENCHING FOR COMPACTED FILL DETAIL



WHERE NATURAL SLOPE GRADIENT IS 5:1 OR LESS, BENCHING IS NOT NECESSARY. FILL IS NOT TO BE PLACED ON COMPRESSIBLE OR UNSUITABLE MATERIAL.

NOT TO SCALE

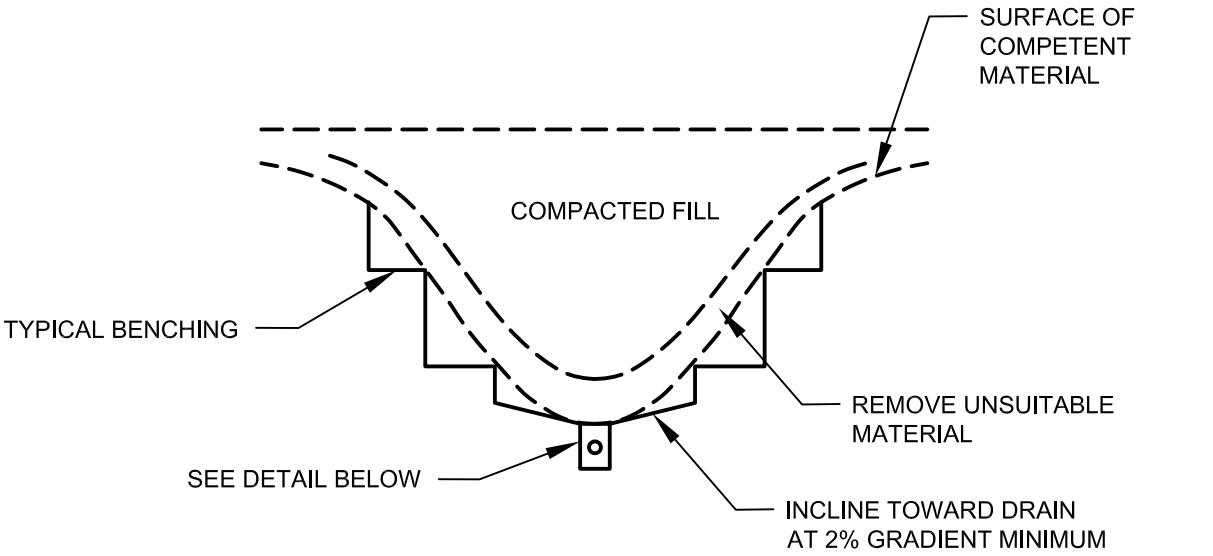
FILL SLOPE ABOVE NATURAL GROUND DETAIL



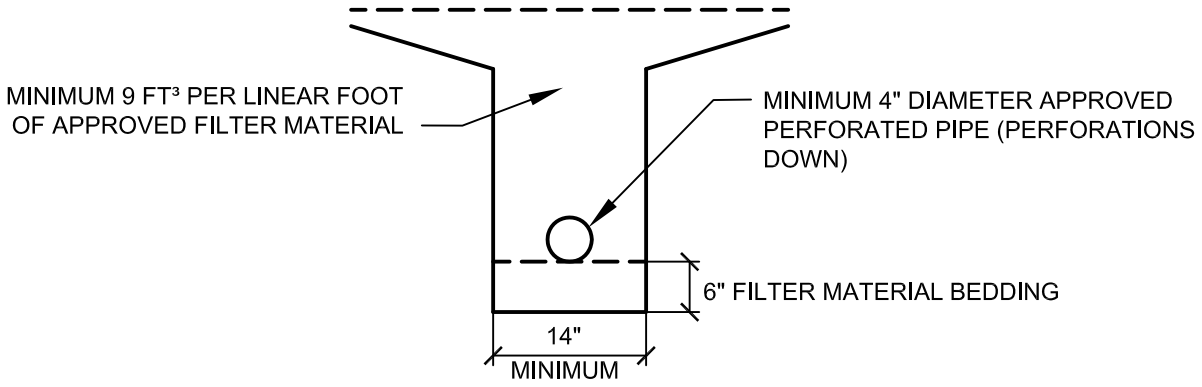
*NOTE: CUT SLOPE PORTION SHOULD BE MADE PRIOR TO PLACEMENT OF FILL

NOT TO SCALE

FILL SLOPE ABOVE CUT SLOPE DETAIL



DETAIL



FILTER MATERIAL TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUAL:

SIEVE SIZE	PERCENTAGE PASSING
1"	100
¾"	90-100
⅜"	40-100
NO. 4	25-40
NO. 30	18-33
NO. 8	5-15
NO. 50	0-7
NO. 200	0-3

APPROVED PIPE TO BE SCHEDULE 40 POLY-VINYL-CHLORIDE (P.V.C.) OR APPROVED EQUAL. MINIMUM CRUSH STRENGTH 1000 psi

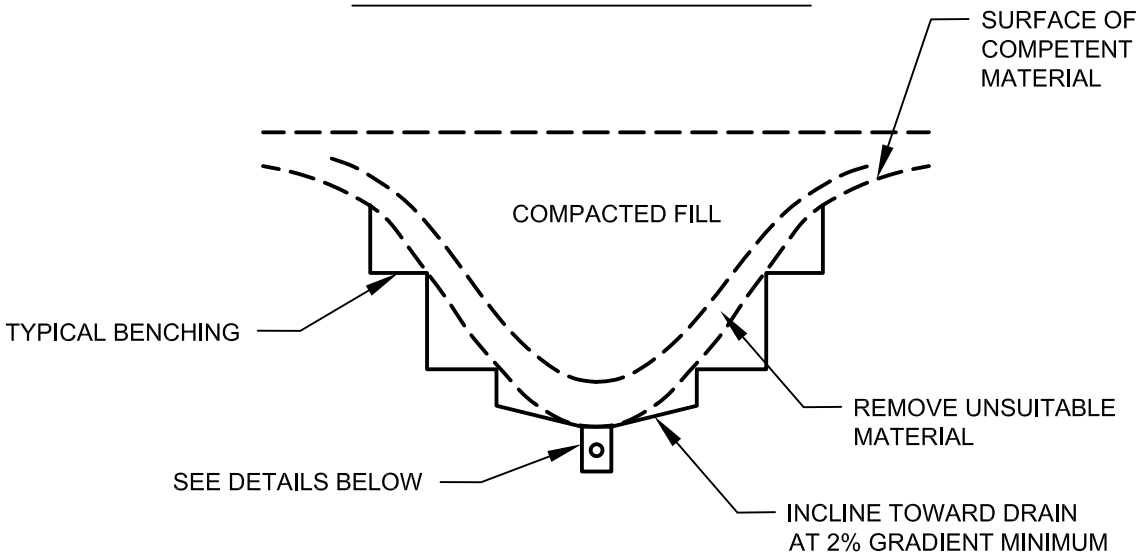
PIPE DIAMETER TO MEET THE FOLLOWING CRITERIA, SUBJECT TO FIELD REVIEW BASED ON ACTUAL GEOTECHNICAL CONDITIONS ENCOUNTERED DURING GRADING

LENGTH OF RUN	PIPE DIAMETER
INITIAL 500'	4"
500' TO 1500'	6"
> 1500'	8"

NOT TO SCALE

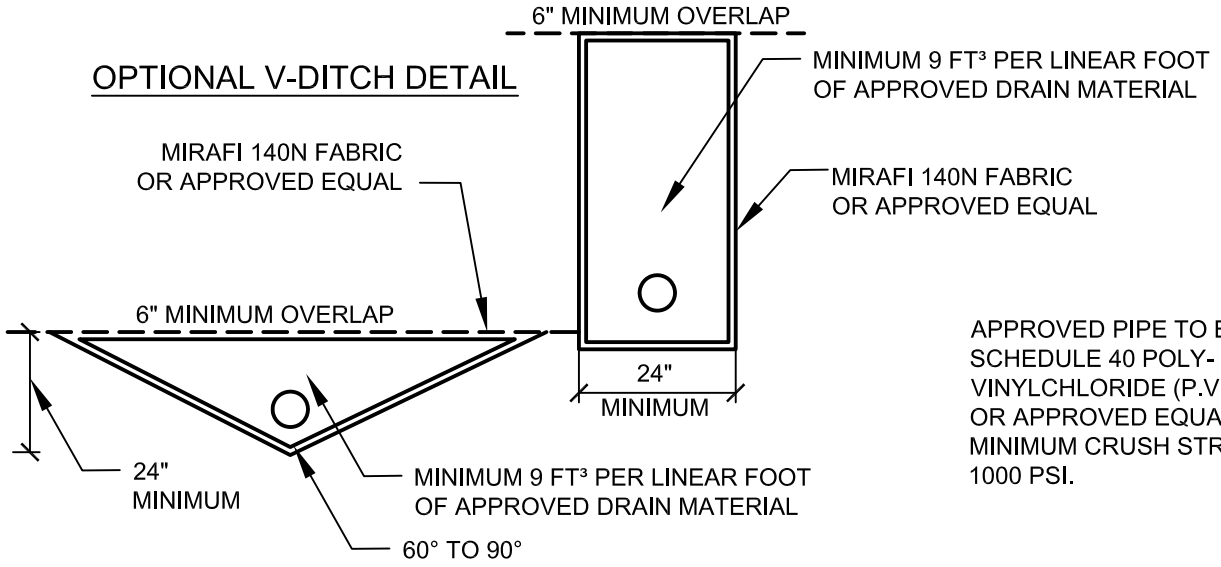
TYPICAL CANYON SUBDRAIN DETAIL

CANYON SUBDRAIN DETAILS



TRENCH DETAILS

OPTIONAL V-DITCH DETAIL



APPROVED PIPE TO BE SCHEDULE 40 POLY-VINYLCHLORIDE (P.V.C.) OR APPROVED EQUAL. MINIMUM CRUSH STRENGTH 1000 PSI.

DRAIN MATERIAL TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUAL:

SIEVE SIZE	PERCENTAGE PASSING
1 ½"	88-100
1"	5-40
¾"	0-17
⅜"	0-7
NO. 200	0-3

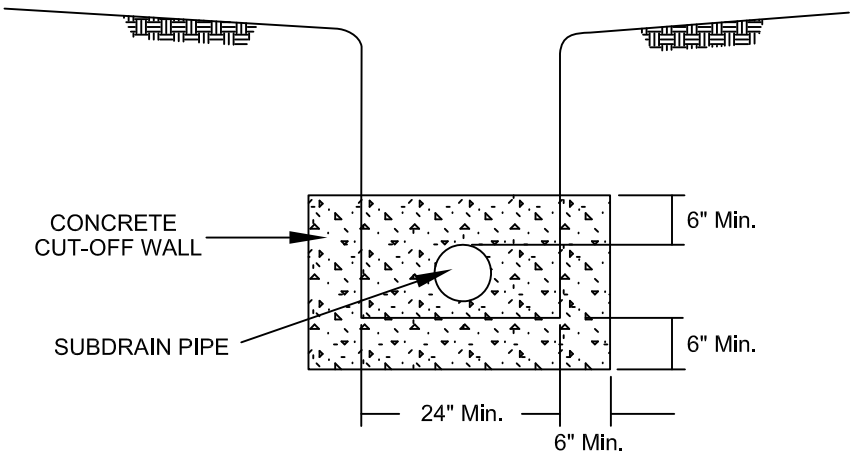
PIPE DIAMETER TO MEET THE FOLLOWING CRITERIA, SUBJECT TO FIELD REVIEW BASED ON ACTUAL GEOTECHNICAL CONDITIONS ENCOUNTERED DURING GRADING

LENGTH OF RUN	PIPE DIAMETER
INITIAL 500'	4"
500' TO 1500'	6"
> 1500'	8"

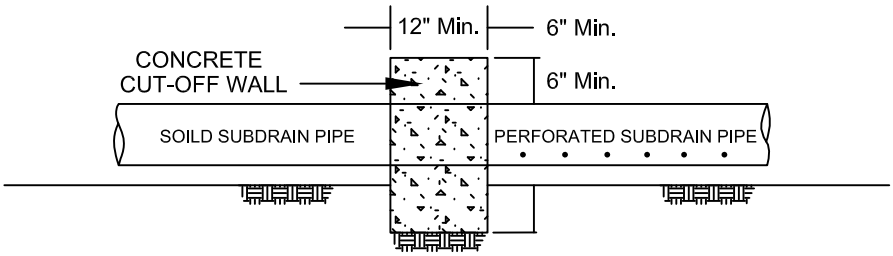
NOT TO SCALE

GEOFABRIC SUBDRAIN

FRONT VIEW



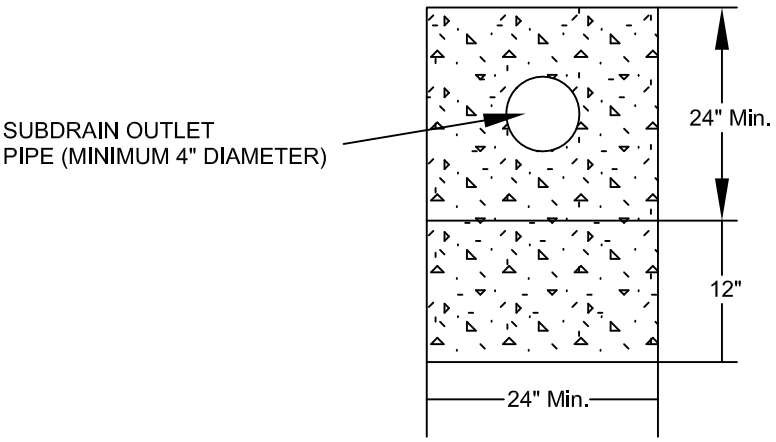
SIDE VIEW



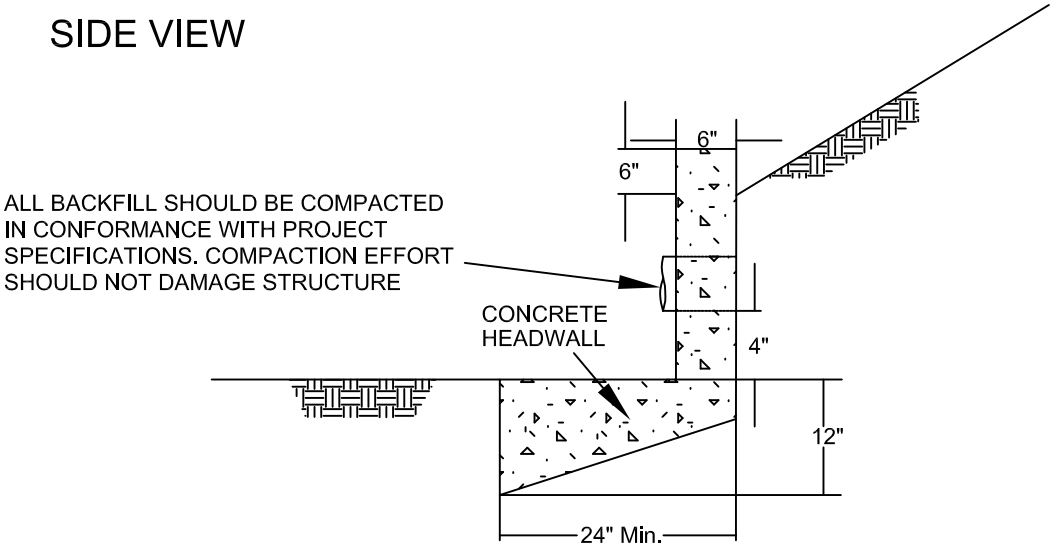
NOT TO SCALE

RECOMMENDED SUBDRAIN CUT-OFF WALL

FRONT VIEW



SIDE VIEW



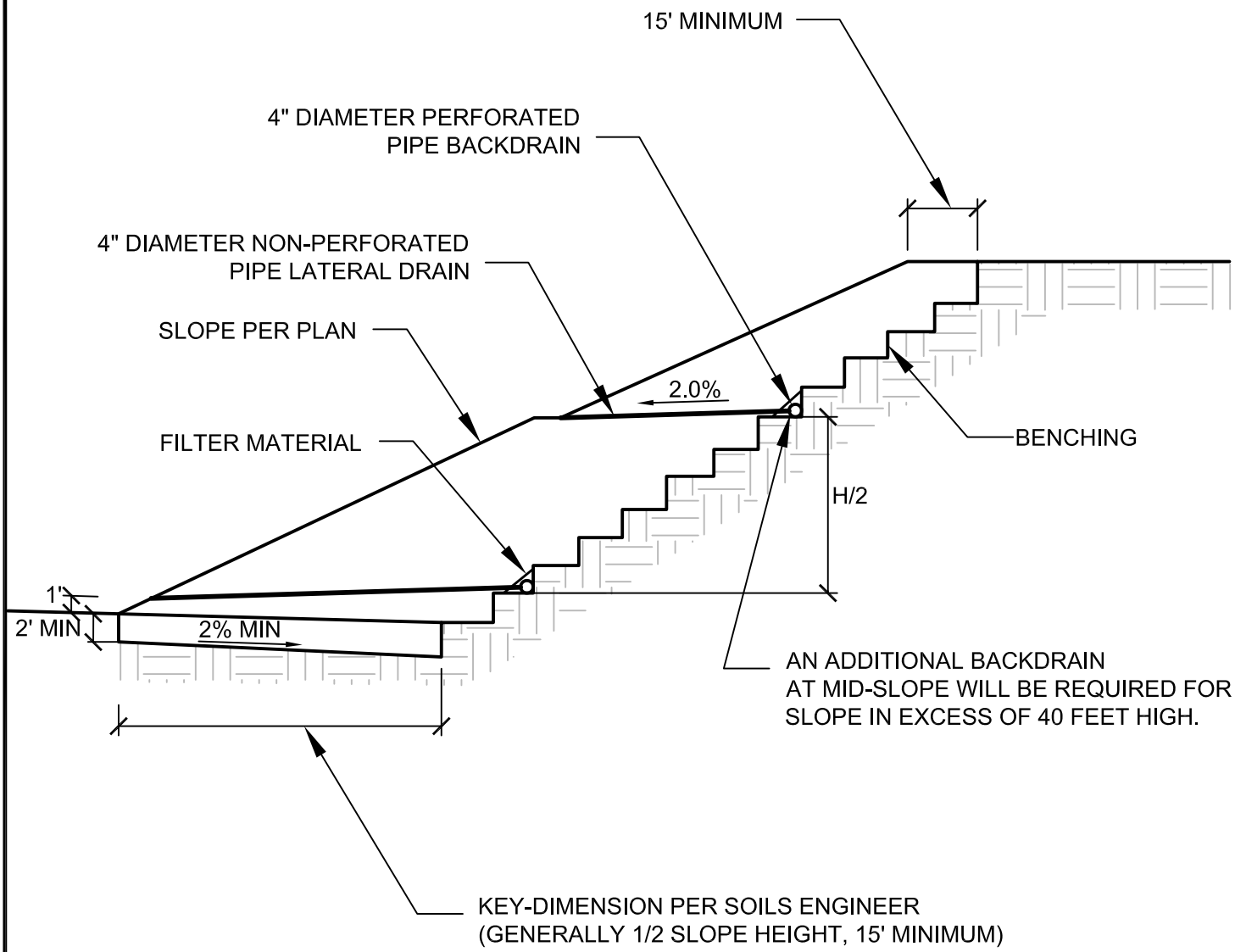
NOTE: HEADWALL SHOULD OUTLET AT TOE OF SLOPE
OR INTO CONTROLLED SURFACE DRAINAGE DEVICE

ALL DISCHARGE SHOULD BE CONTROLLED

THIS DETAIL IS A MINIMUM DESIGN AND MAY BE
MODIFIED DEPENDING UPON ENCOUNTERED
CONDITIONS AND LOCAL REQUIREMENTS

NOT TO SCALE

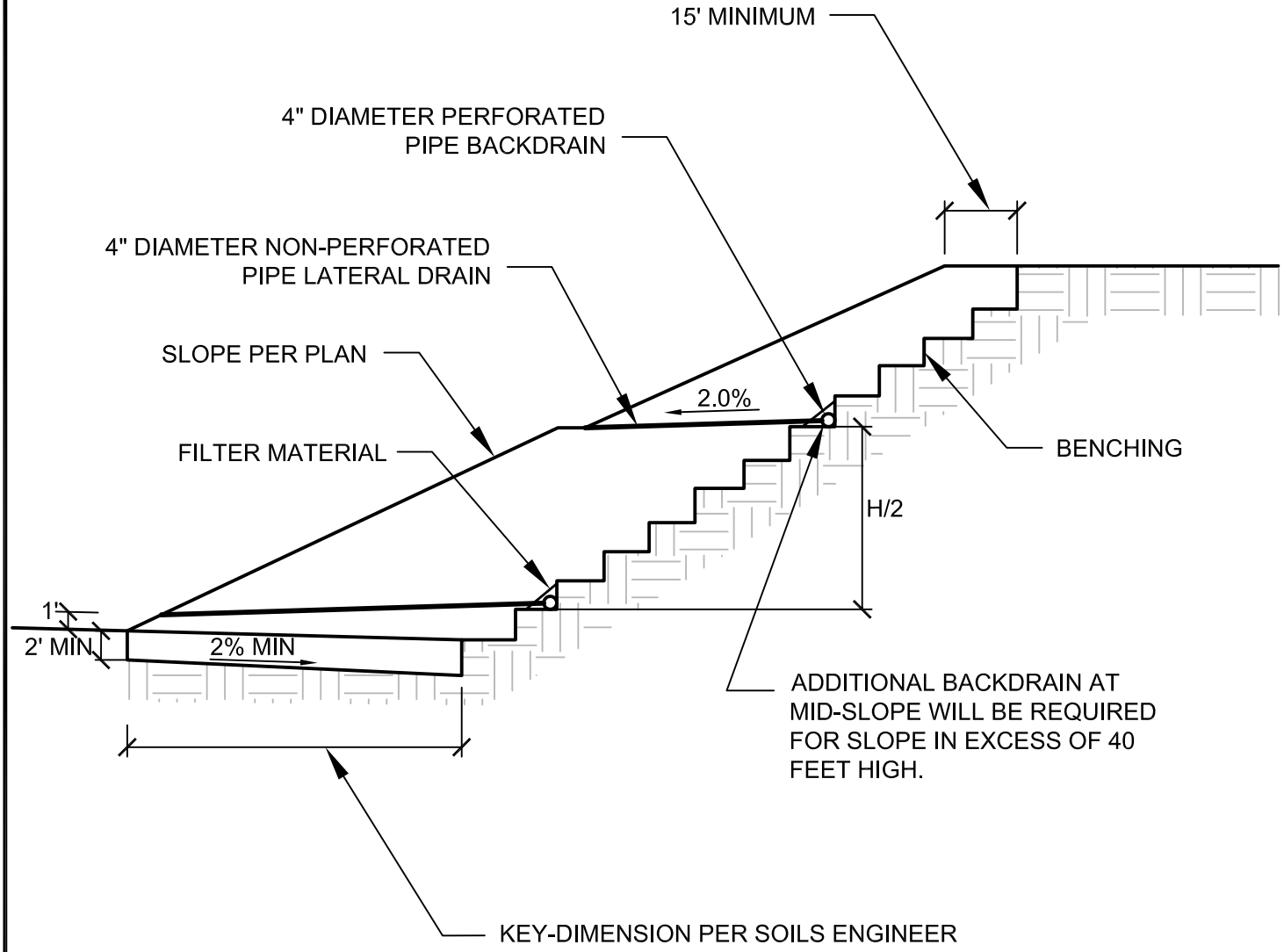
TYPICAL SUBDRAIN OUTLET HEADWALL DETAIL



DIMENSIONS ARE MINIMUM RECOMMENDED

NOT TO SCALE

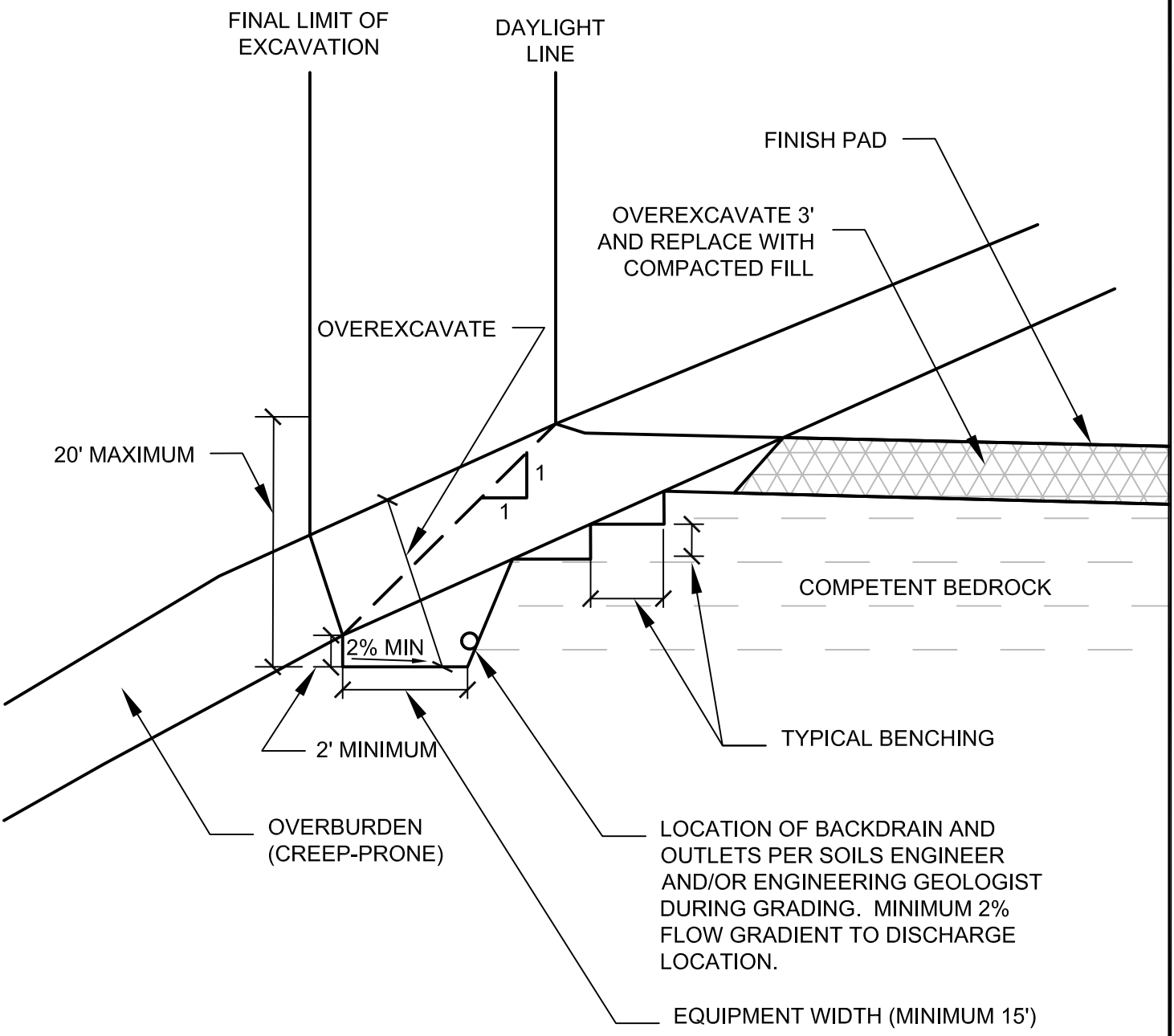
TYPICAL SLOPE STABILIZATION FILL DETAIL



DIMENSIONS ARE MINIMUM RECOMMENDED

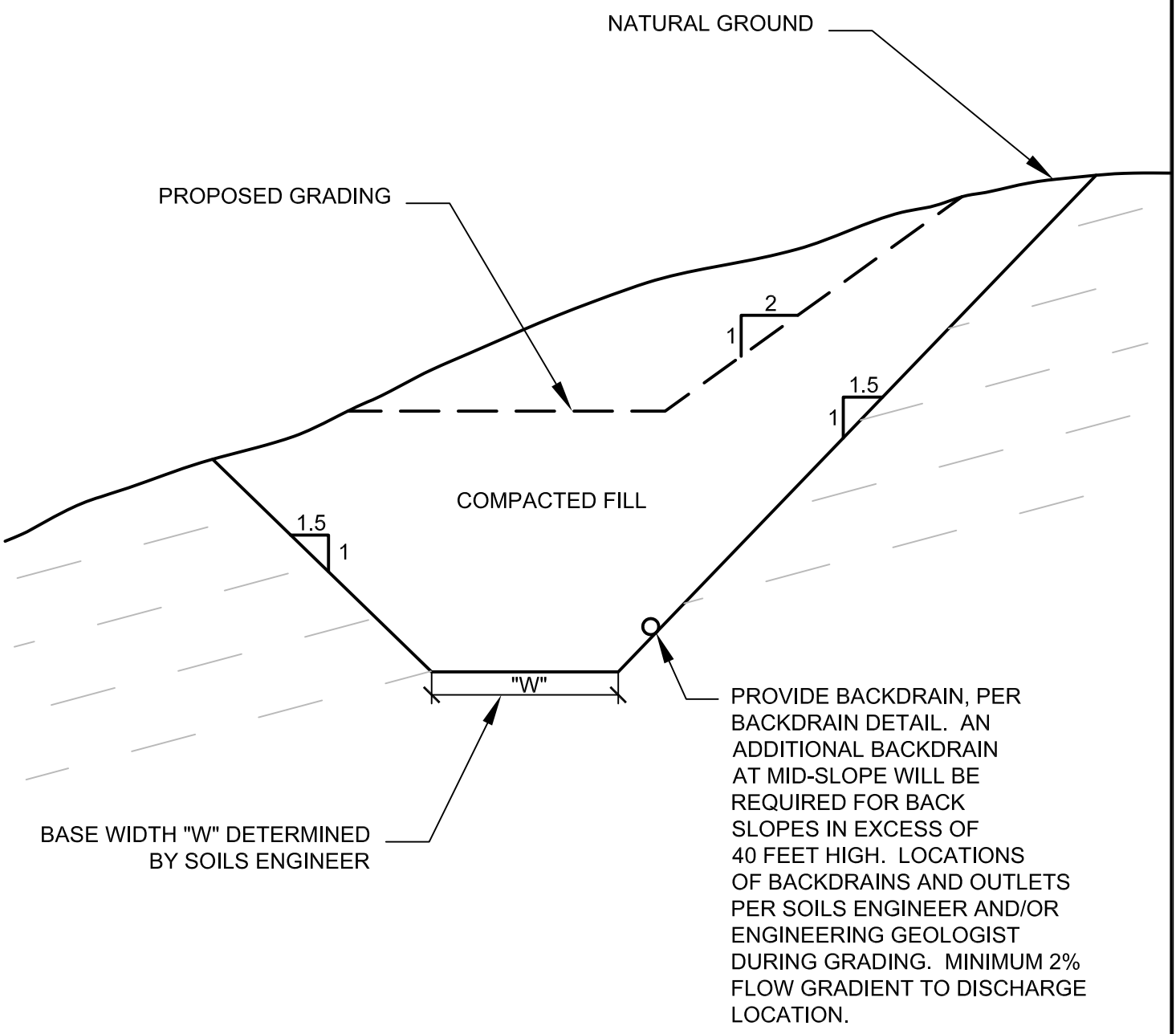
NOT TO SCALE

TYPICAL BUTTRESS FILL DETAIL



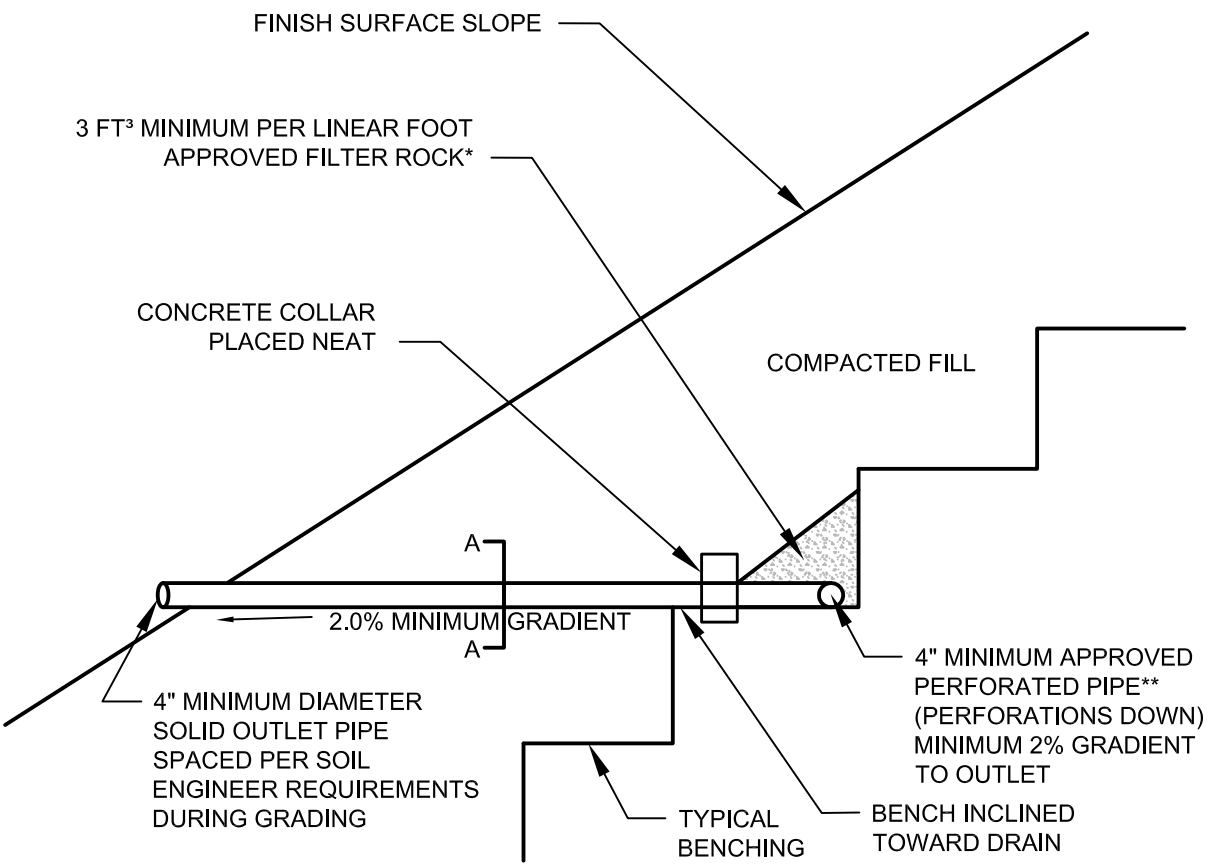
NOT TO SCALE

DAYLIGHT SHEAR KEY DETAIL

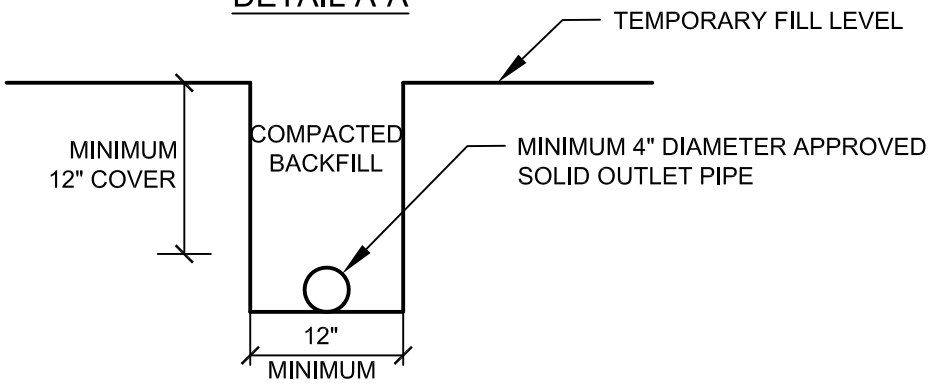


NOT TO SCALE

TYPICAL SHEAR KEY DETAIL



DETAIL A-A



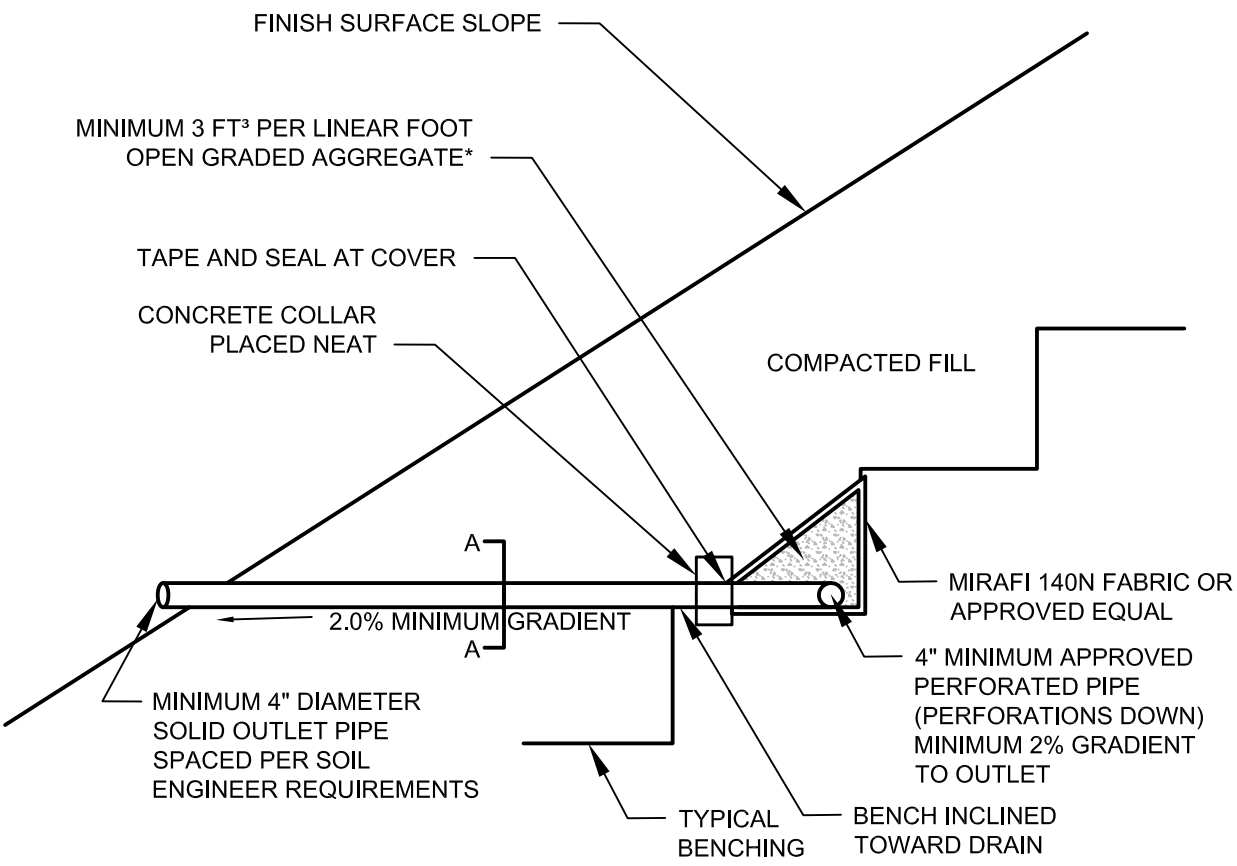
**APPROVED PIPE TYPE:
SCHEDULE 40 POLYVINYL CHLORIDE
(P.V.C.) OR APPROVED EQUAL.
MINIMUM CRUSH STRENGTH 1000 PSI

*FILTER ROCK TO MEET FOLLOWING
SPECIFICATIONS OR APPROVED EQUAL:

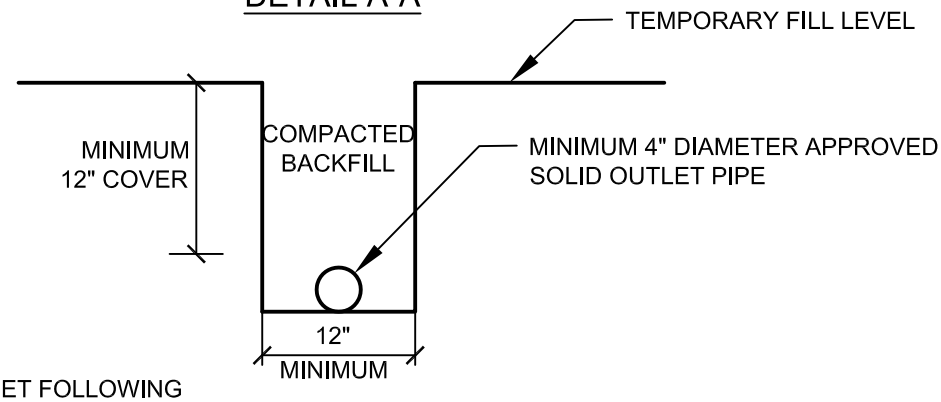
SIEVE SIZE	PERCENTAGE PASSING
1"	100
¾"	90-100
⅜"	40-100
NO. 4	25-40
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

NOT TO SCALE

TYPICAL BACKDRAIN DETAIL



DETAIL A-A

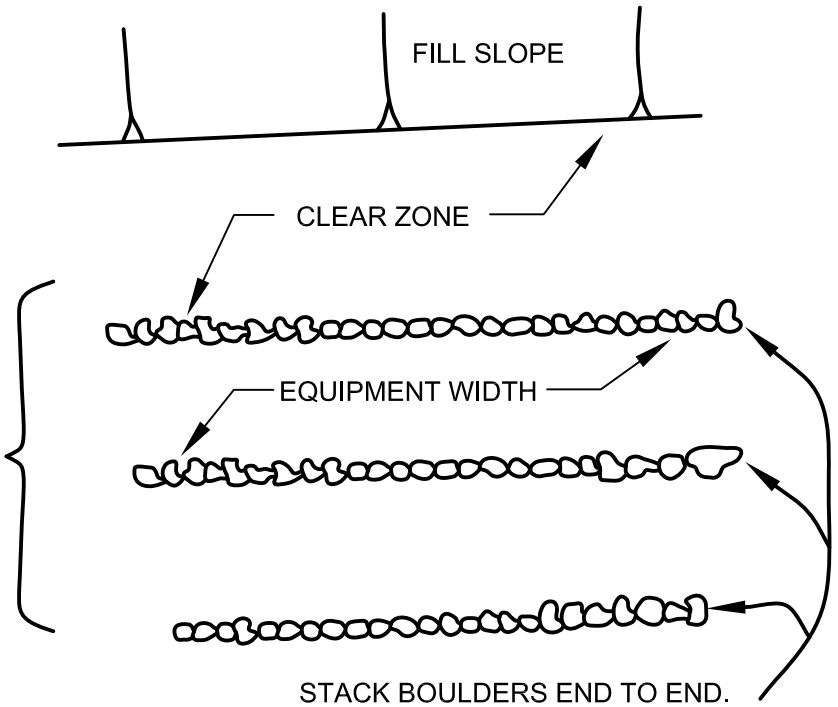


*NOTE: AGGREGATE TO MEET FOLLOWING SPECIFICATIONS OR APPROVED EQUAL:

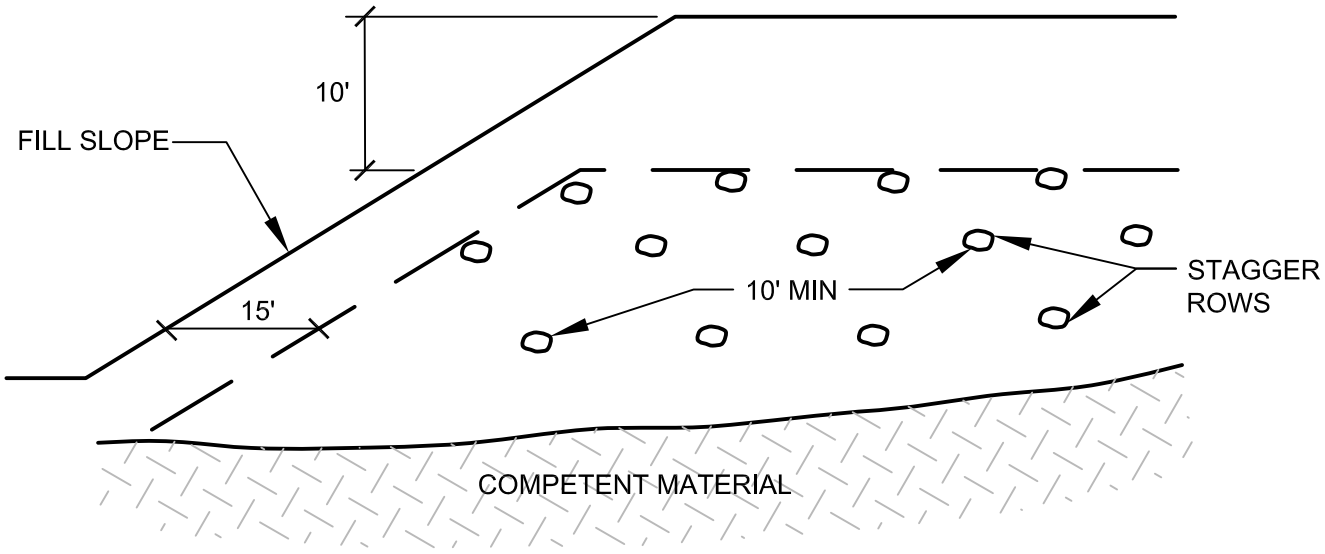
SIEVE SIZE	PERCENTAGE PASSING
1 ½"	100
1"	5-40
¾"	0-17
⅜"	0-7
NO. 200	0-3

NOT TO SCALE

BACKDRAIN DETAIL (GEOFRABIC)

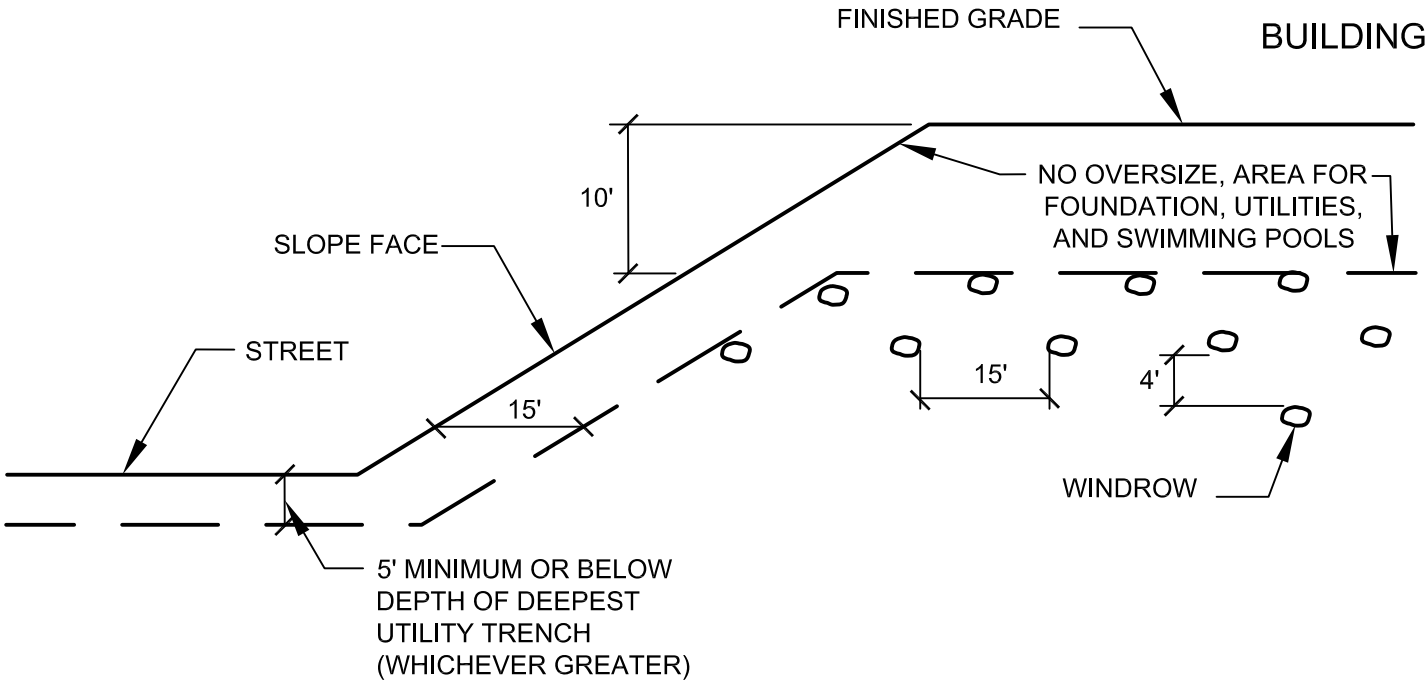


SOIL SHALL BE PUSHED OVER ROCKS AND FLOODED INTO VOIDS. COMPACT AROUND AND OVER EACH WINDROW.

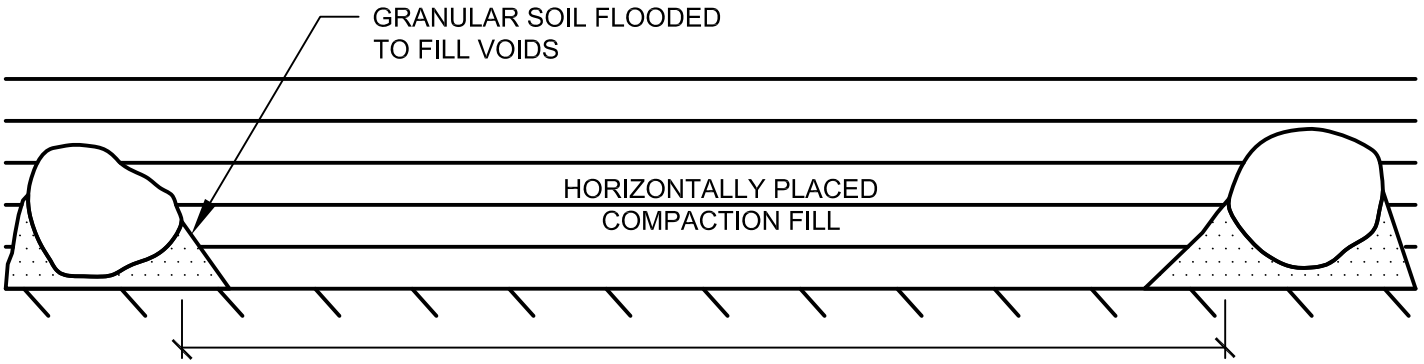


NOT TO SCALE

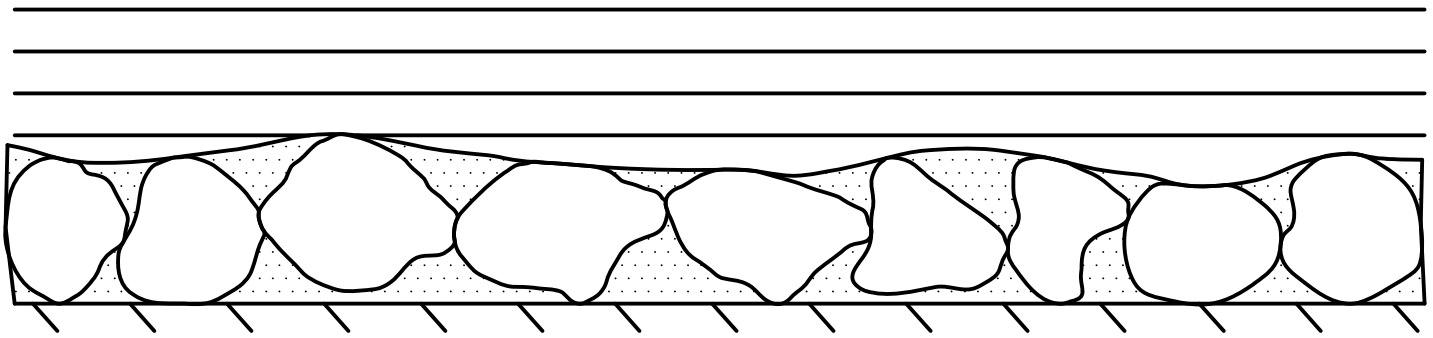
ROCK DISPOSAL DETAIL



TYPICAL WINDROW DETAIL (EDGE VIEW)



PROFILE VIEW

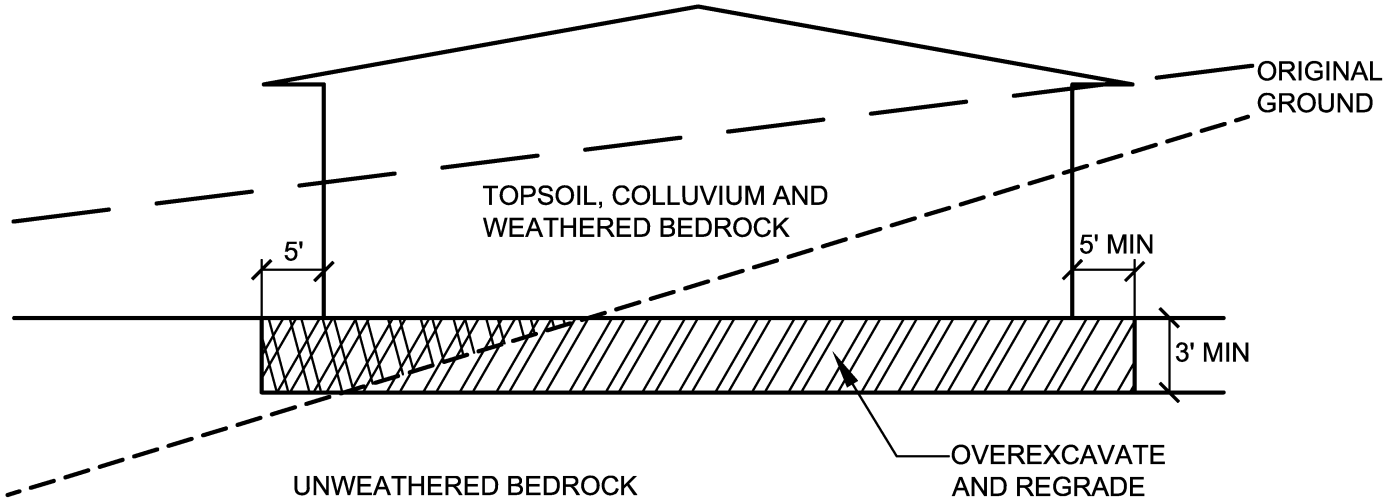


NOT TO SCALE

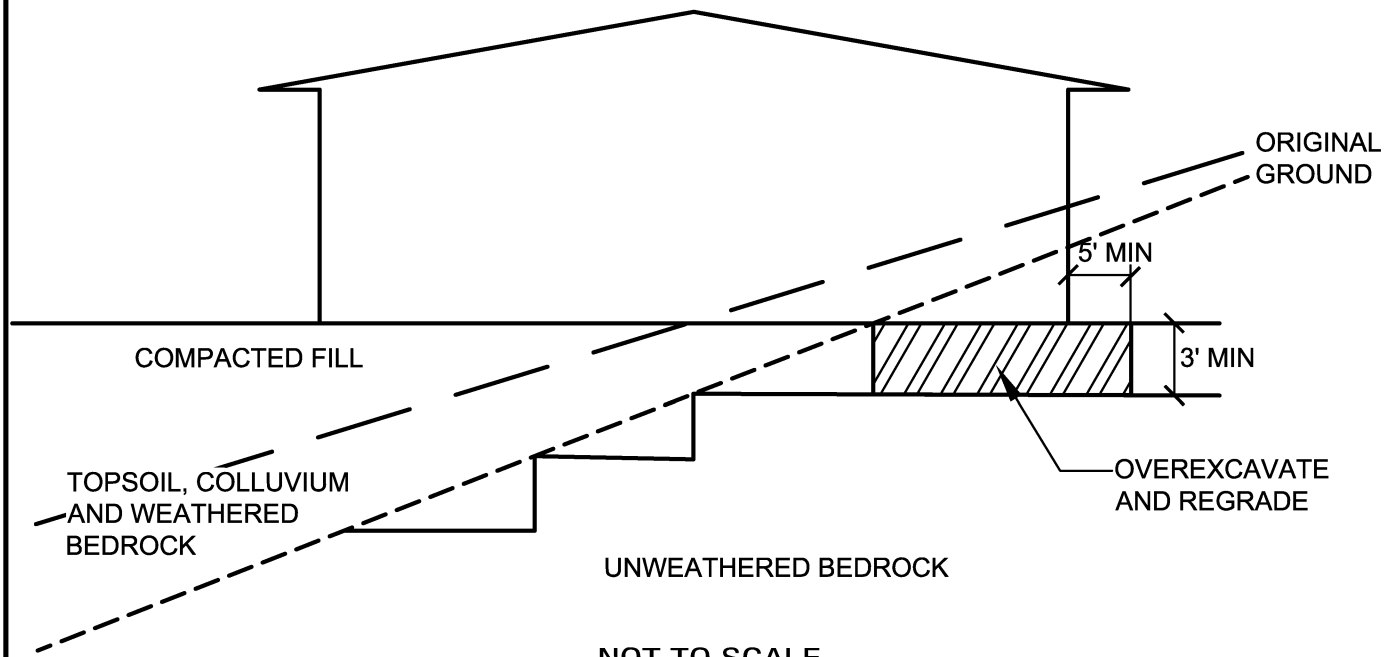
ROCK DISPOSAL DETAIL

GENERAL GRADING RECOMMENDATIONS

CUT LOT



CUT/FILL LOT (TRANSITION)



NOT TO SCALE

TRANSITION LOT DETAIL

APPENDIX E

US SEISMIC DESIGN VALUES

⚠ This is a beta release of the new ATC Hazards by Location website. Please contact us with feedback.

ℹ The ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

Hazards by Location

Search Information

Address: 11293 S Manthey Rd, Lathrop, CA 95330, USA

Coordinates: 37.8555319, -121.284538

Elevation: 21 ft

Timestamp: 2022-09-08T22:18:18.512Z

Hazard Type: Seismic

Reference Document: ASCE7-16

Risk Category: II

Site Class: D-default

Map data ©2022 Imagery ©2022 , CNES / Airbus, Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO

Basic Parameters

Name	Value	Description
S_S	0.797	MCE_R ground motion (period=0.2s)
S_1	0.302	MCE_R ground motion (period=1.0s)
S_{MS}	0.957	Site-modified spectral acceleration value
S_{M1}	* null	Site-modified spectral acceleration value
S_{DS}	0.638	Numeric seismic design value at 0.2s SA
S_{D1}	* null	Numeric seismic design value at 1.0s SA

* See Section 11.4.8

Additional Information

Name	Value	Description
SDC	* null	Seismic design category
F_a	1.2	Site amplification factor at 0.2s
F_v	* null	Site amplification factor at 1.0s
CR_S	0.946	Coefficient of risk (0.2s)
CR_1	0.951	Coefficient of risk (1.0s)
PGA	0.332	MCE_G peak ground acceleration

F_{PGA}	1.268	Site amplification factor at PGA
PGA_M	0.421	Site modified peak ground acceleration
T_L	8	Long-period transition period (s)
SsRT	0.797	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.842	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.302	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.317	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

* See Section 11.4.8

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. Find out why.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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APPENDIX E

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road, Lathrop, California

11 April 2023
Project No. 23-7148

PREPARED FOR:

Valley Real Estate Center
Mr. Gurbinder Singh

PREPARED BY:

AdvancedGeo
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical
Phone: 800-511-9300
Fax: 888-445-8786
www.advancedgeo.biz

"Working in Partnership with People, Business and the Environment"

Phase I Environmental Site Assessment

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road, Lathrop, California

11 April 2023
Project No. 23-7148

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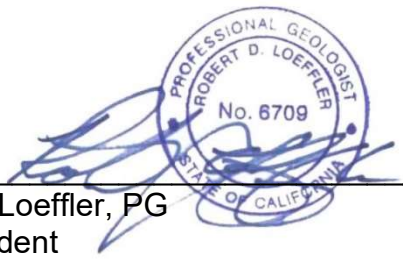
"Working in Partnership with People, Business and the Environment"

PREPARED BY:

Maxwell Niemeyer
Staff Scientist

Rebecca Natal
Project Scientist

REVIEWED BY:



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Phase I Environmental Site Assessment
Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road, Lathrop, California

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EXECUTIVE SUMMARY

AdvancedGeo, Inc. (AGI) conducted this Phase I Environmental Site Assessment for the properties located at 11293 South Manthey Road and 169 Manila Road Drive, Lathrop, San Joaquin County, California (subject property or property) in conformance with the scope and limitations of ASTM Standard Practice E1527-21 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries 'AAI' (40 CFR Part 312).

PROPERTY USE

The subject property comprises two adjoining parcels, totaling 21.7 acres, situated along South Manthey Road, within an agricultural area of unincorporated San Joaquin County. The subject property is currently vacant, except for the remnants of a demolished single-family dwelling and an abandoned well. Additionally, several stockpiles of aggregate and road base are stored throughout the property.

Based on a review of historical documents, the subject property has been utilized agriculturally since the late 1930s. In the mid-1950s, a single-family residence was built on the southwest corner of the subject property. Between the mid-1960s to early-1970s, an additional residence was constructed on the eastern portion of the subject property. Manthey Road was developed through the eastern portion of the subject property in the early to mid-1970s. By the early-1980s, the residence located previously on the southwest corner of the subject property had been demolished. By the late-2010s, the remaining residence located on the eastern portion of the subject property had been demolished.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-21, a recognized environmental condition (REC) is defined as: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (ie. activity and use limitations or other property use limitations). A controlled REC (CREC) is a REC that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (activity and use limitations or other property use limitations).

The following findings are differentiated below as Business Environmental Risks and *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs, RECs and potential non-ASTM environmental issues (issues that fall outside the definition of RECs).

BUSINESS ENVIRONMENTAL RISK

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property with the exception of the abandoned water well. If the well will not be rehabilitated for future use, the well should be destroyed under permit.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of HRECs in connection with the subject property.

CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of CRECs in connection with the subject property.

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property.

OTHER POTENTIAL ENVIRONMENTAL ISSUES

This assessment has revealed no evidence of other non-ASTM-defined environmental issues in connection with the subject property except for the petroleum-containing waste observed on the eastern portion of the subject property during the initial property inspection on 15 March 2023. Several drums and other containers containing waste oil, oil, used oil filters, paint and other wastes were illegally dumped near the former driveway entrance onto the eastern subject parcel. Several of the drums and containers were open and spilling petroleum contents onto bare soil.

In March 2023, the property owner contracted with Clean Harbors to remove the waste materials and cleanup the petroleum-impacted soils. Response activities began on 18 March 2023. Clean-up activities included the removal of all waste materials and contaminated construction waste. Additionally, approximately 5.1 cubic yards of impacted soil were excavated and placed in covered bins for disposal. Representatives for Clean Harbors reportedly utilized visual observations to determine that all impacted soils were removed.

On 05 April 2023, AGI conducted a follow-up inspection of the subject property. No obvious petroleum staining or odors were observed in soils remaining within the excavation area. Any residual petroleum contamination (if any) will likely be minimal and not of significant concern to the subject property. Confirmation soil-sampling was not conducted by Clean Harbors during the March 2023 clean-up; however, confirmation soil samples should be considered to validate that the impacted soil has been successfully removed.

CONCLUSIONS AND OPINION

AdvancedGeo, Inc. (AGI) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 and the US-EPA AAI for the property located at 11293 South Manthey Road and 169 Manila Road Drive, Lathrop, San Joaquin County, California.

It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGI did not identify any RECs on the subject property during the course of the Phase I.

However, several drums of waste oil, oil, oil filters and paint were dumped and impacted the soil on the eastern portion of the property in early March 2023. In mid-March 2023, 5.1 cubic yards of soil were excavated for disposal. Only visual observations were utilized to determine the extent of the excavation. While the soil visually appears clean, confirmation soil samples should be considered to validate the successful removal of the impacted soil.

CRITICAL DATES

Report Issuance Date	11 April 2023
Date of Interview of Past and Present Owners and Occupants Identified in Section 10 of ASTM 1527-21	15 March 2023
Date of Recorded Environmental Cleanup Lien Search	N/A
Date of Visual Inspection of Subject and Adjoining Properties	15 March 2023 05 April 2023
Earliest Date of Interviews, Lien Search, Record Reviews, and Inspections	08 March 2023
Report Viability Date	08 October 2023
Report Shelf Life (Requires update after 180 days)	11 April 2024

The Phase I Environmental Site Assessment report cannot be older than 180 days prior to closing to be valid for a property transfer. In accordance with 40 CFR 312.20 for All Appropriate Inquiries, the following components of the Phase I report must be updated, if more than 180 days has lapsed from the issuance date:

- Interviews with past and present owners, operators, and occupants (40 CFR 312.23)
- Searches for recorded environmental cleanup liens (40 CFR 312.25)
- Reviews of federal, tribal, state, and local government records (40 CFR 312.26)
- Visual inspections of the facility and adjoining properties (40 CFR 312.27)
- The declaration by the Environmental Professional (40 CFR 312.21)

The shelf life of the Phase I Environmental Assessment report, and corresponding update, is one year, or 360 days from the original report issuance date. If more than one year has lapsed from the report date prior to closing, a new Phase I report must be obtained to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability.

Phase I Environmental Site Assessment
Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road, Lathrop, California

1.0. INTRODUCTION

AdvancedGeo, Inc. (AGI) has been retained by Valley Real Estate Center to perform a Phase I Environmental Site Assessment (Phase I) of the properties located at 11293 South Manthey Road and 169 Manila Road Drive, Lathrop, San Joaquin County, California (hereafter referred to as subject property or property). The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-21 and the United States Environmental Protection Agency (USEPA) Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-21 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-21).

The goal of ASTM Standard Practice E1527-21 is to identify *recognized environmental conditions* (RECs) in connection with the subject property. A REC is defined as: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be de minimis, which generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate

governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (ie. activity and use limitations or other property use limitations). A controlled REC (CREC) is a REC that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (activity and use limitations or other property use limitations).

1.2. SITE DESCRIPTION

The subject property comprises two adjoining parcels, totaling 21.7 acres, situated along South Manthey Road, within an agricultural area of unincorporated San Joaquin County. The subject property is currently vacant, except for the remnants of a demolished single-family dwelling and an abandoned well. Additionally, several stockpiles of aggregate and road base are stored throughout the property. Further property location descriptions, characteristics, improvements, and site vicinity characteristics are discussed below.

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Addresses	1) 11293 South Manthey Road, Lathrop, California 95330-9728 2) 169 Manila Road, Lathrop, California 95330-8709
Assessor's Parcel Numbers (APNs)	1) 191-250-140-000 2) 191-250-060-000
Legal Description	None listed
Property Owner	1) SINGH PETROLEUM INVESTMENTS INC 2) BACAY ANTONIO A TR ETAL
Land Use Type	1) Vacant 2) Agriculture
Size of Property	1) 11.400 Acre 2) 10.300 Acres TOTAL: 21.700 Acres

The parcel map and owner information were obtained from the County Assessor's Office or independent parcel search company. Copies of the parcel map and the owner information are provided in Appendix B.

1.2.2. Site and Vicinity General Characteristics

The subject property is located within an agricultural area of unincorporated San Joaquin County, north of the City of Lathrop, California. Figure 1 shows the setting of the subject property (7.5 Minute United States Geological Survey [USGS] Topographic Series, Lathrop, CA Quadrangle, Colorado). Figure 2 shows the vicinity surrounding the subject property. Figure 3 shows the site and immediate surrounding area. Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The property is currently vacant rural grassland with no buildings or structures on the property except for remnants of a former residence and an abandoned water well.

1.2.4. Proposed Use of Property

AGI has been informed that the subject property is intended to be developed as a truck stop and restaurant.

1.2.5. Property Utilities

Potable Water Source	None
Sanitary Sewer Utility	None; decommissioned septic system
Storm Drain Utility	None
Electric Utility	None
Natural Gas Utility	None

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 8.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-21 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services are discussed in Section 7.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long-term familiarity with the subject property

as specified in ASTM E1527-21 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. AGI is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. AGI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AGI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction; however, they are considered non-scope issues under ASTM Practice E1527-21. Many of these considerations are required as part of the Fannie Mae Environmental Due Diligence Requirements, Form 4251. Any addition of non-scope items must be agreed upon between the user and AGI prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and

information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a 'due diligence' effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-21 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the *Small Business Liability Relief and Brownfields Revitalization Act of 2001*, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	An environmental lien or AUL's (activity and usage limitations) search was not requested by the user.
Specialized Knowledge	AGI was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.

Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Potential property transaction
Other	No modifications to the ASTM E1527-21 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services are discussed in Section 7.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to AGI.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting, and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five-year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance aps (no coverage), aerial photographs, topographic maps, telephone directory formation, the San Joaquin Community Development Building Department records, and the San Joaquin County Assessor's Office records.

Representative historical records are provided within Appendix B.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. EDR owns the largest collection of Sanborn Fire Insurance Maps. AGI requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn Fire Insurance Map coverage is not available for the subject property.

3.1.1.2. Aerial Photographs

AGI reviewed aerial photographs of the subject property and surrounding area that were provided by EDR as well reviewed online (Google Earth) for the years 1937, 1940, 1957, 1963, 1968, 1975, 1982, 1993, 2006, 2009, 2012, 2016 and 2022. The following is a summary of our review of the aerial photographs:

Year(s)	Subject Property	Surrounding Area
1937, 1940	The subject property is an agricultural field.	The adjacent properties to the north, south, east, and west are utilized for agriculture. Rural residences are visible to the adjacent northeast and east. California Interstate 5 is visible to the east as a one-lane highway. Residential development is visible along Interstate 5 to the east and southeast. Manila Road is visible to the south.
1957, 1963	A single residence is visible on the southwestern corner of the subject property while the remainder of the property is an agricultural field.	Unchanged except for a large residence located adjacent to the east of the subject property along Interstate 5.
1968	A residence is located in the center portion of the subject property consistent with the current building footprint. The remainder of the property is an agricultural field.	Unchanged with the exception of residential development present immediately south of the subject property.
1975	Unchanged from previous images.	The current extent and layout of Interstate 5 is visible with on-off ramps to the east of the subject property Manthey Road is visible bisecting the subject property from north to south.
1982, 1993, 2006, 2009, 2012, 2016	The residence previously located in the southwestern corner of the subject property has been removed. By 2006, the agricultural field appears to be fallow.	Commercial and residential development is visible to the east following California Interstate 5. By 2006, a large warehouse is visible to the southeast along South Harlan Road.
2022	The residence located on the center portion of the subject property along Manthey Road has been removed. The	Unchanged from previous images.

Year(s)	Subject Property	Surrounding Area
	foundations of the structure and driveway are visible. Numerous piles of soil can be observed on the central portion of the subject property near the former residence.	

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the subject property.

3.1.1.3. Historical Topographic Maps

AGI reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1915, 1952, 1968, 1976, 1987, 1994, 1996 and 2012.The following is a summary of our review of the topographic maps:

Year(s)	Subject Property	Surrounding Area
1915	The subject property is vacant land with no buildings or structures on the property.	The surrounding adjacent properties are also vacant undeveloped land. Manila Road is mapped as a dirt road to the south.
1952	A residence is mapped in the southwestern corner of the subject property. A water well is located centrally on the west boundary of the property.	The surrounding area remains vacant land. To the south and east of the subject property, multiple residences have been constructed. The Sharpe General Depot is mapped to the distant southeast.
1968	An additional residence is mapped on the central portion of the subject property.	Unchanged with the exception of commercial and residential development to the east and northeast along California Interstate 5. An unnamed reservoir is mapped to the distant southwest.
1976, 1987, 1994, 1996	Unchanged from previous maps.	Manthey Road is mapped bisecting the eastern portion of the subject property. California Interstate 5 has been expanded to its current extent with the addition of on-off ramps.
2012	These topographic series only show elevation contours, roadways and waterways. The subject property is mapped in a rural agricultural area.	These topographic series only show elevation contours, roadways and waterways.

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

AGI requested that EDR provide a review of city and street directories to determine the occupancy history of the subject property and adjacent properties. EDR provided a review that ranged from 1974 to 2020 at 5-year or less intervals. The following is a summary of the city directory search:

Address	Location	Occupant Summary
11293 South Manthey	Subject property	2000: Chastian, Gina M. 2005: Kelley, Kanwarjit S 2010: Kelley, Kanwar S. 2014 - 2017: Kelley, Gurdip
169 Manila Road	Subject property	1974: Caridad, Aquino
11199 South Manthey Road	Adjacent North	1974 - 2017: Residential occupancy
11401 South Manthey Road	Adjacent South	1974 - 1920: Residential occupancy
11591 South Manthey Road	Adjacent South	1974 - 2014: Residential occupancy
175 Manila Road	Adjacent West	1974: Residential occupancy

A review of historical telephone directory listings of the subject property address did not reveal any items of environmental concern.

3.1.1.5. Building Department Records

The San Joaquin County Community Development Department maintains records pertaining to the construction and demolition of structures within unincorporated San Joaquin County. A review of Community Development Department records is summarized in the following table:

Year(s)	Summary
1995	Permit to tear off, re-sheath, and re-roof with composite roofing.
2006	Merger Application for APN:191-250-08 and 191-50-11 into one parcel. Location: On the west side of Manthey Road, approximately 740-feet north of Manila Road (Lathrop).
2009	Use Permit Application and associated documents to establish a truck stop, hotel, convenience store with automobile fuel island and full-service restaurant to be built in three phases.
2016	Withdrawn Permit to repair fire damaged single-family residence. Rebuild roof with new trusses, rebuild den and attached garage.

3.1.1.6. Assessor's Records

Records available at the San Joaquin County Assessor's office included a single *Residential Building Record* for subject parcel 191-250-140-000, formerly identified as

APN 191-250-080. In 1968, a single permit (BP 60785) was issued to the property located at 11293 South Highway 50 (present day 11293 South Manthey Road) for construction of a 1,337-square foot single-story, two-bedroom dwelling, with a 440-square foot attached garage and a 600-sqaure foot equipment shed.

A review of the historical Assessor's records for the subject property did not reveal any items of environmental concern.

3.1.1.7. Previous Phase I and II Environmental Site Assessments

AGI reviewed the following previous environmental site assessments:

- Advanced GeoEnvironmental, Inc (AGE)-prepared *Phase I Environmental Site Assessment,* 26 March 2019: In March 2019, AGE (predecessor to AGI) completed a Phase I for the property identified by address 11293 South Manthey Road (APN 191-250-140-000). The subject property comprised a single 11.4-acre parcel, located south of Roth Road. Manthey Road crossed through the eastern portion of the property parcel. At the time of the 2019 Phase I, the property was largely undeveloped land, with several remnants of a former residence remaining, including a well pump and electric meter. AGE did not identify any HRECs, CRECs or RECs in regard to the subject property.
- AGI-prepared *Phase I Environmental Site Assessment,* 26 April 2021: In April 2021, AGI completed a Phase I for the property identified by address 169 Manilla Road (APN 191-250-060-000). The subject property comprised a single 10.3-acre parcel, located to the north of Manila Road. At the time of the 2021 Phase I, the property was undeveloped, vacant rural grassland with no improvements or structures, except for an abandoned water well. AGE did not identify any HRECs, CRECs or RECs in regard to the subject property.

Copies of the previous environmental site assessments are included in Appendix B.

3.1.2. Historical Use Information on Adjoining Properties

Historical use of immediately adjoining properties has been agricultural land and homesteads since the late-1930s. California Interstate 5 was developed to the west in the early-1970s. Between the late 1960s to mid-1970s, Manthey Road was developed. through the eastern portion of the subject property.

Historical uses of adjoining properties do not appear to be of environmental concern to the subject property.

3.2. PHYSICAL SETTING

Geology	The subject property is situated within the Great Valley Geomorphic Province of California, an elongate, northwest trending structural trough running 400 miles through Central California. The Great Valley is bound to the north by the Klamath Mountains, the south by the Tehachapi Mountains, the east by the Sierra Nevada Mountains, and the west by the Coast Ranges. Approximately 32,000 feet of marine and continental sediment have been deposited almost continuously since the Jurassic. The northern and southern regions of the Great Valley are designated the Sacramento and San Joaquin Valleys, respectively. The subject property is located within the San Joaquin Valley.
Hydrology	The subject property and surrounding area lie within the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin (5-22.01). The subbasin is bound on the south, southwest and west by the Modesto, Delta-Mendota, and Tracy Subbasins, respectively, and on the northwest and north by the Solano, South American, and Cosumnes Subbasins. The Solano and South American are subbasins of the Sacramento Valley Groundwater Basin. The Eastern San Joaquin Subbasin is drained by the San Joaquin River and several of its major tributaries namely, the Stanislaus, and Calaveras, and Mokelumne Rivers. The San Joaquin River flows northward into the Sacramento and San Joaquin Delta and discharged into the San Francisco Bay. Annual precipitation within the subbasin ranges from about 11 inches in the southwest to about 25 inches in the northeast. Groundwater information collected from the State of California Geotracker database at a site located approximately 0.3-mile northeast of the property indicates that groundwater is found at an approximate depth between 3 and 12 feet below surface grade and flows to the northwest.
Topography	The property is located at an elevation of approximately 16 feet above mean sea level (MSL), in an area of low topographic relief. Regional slope of the area is toward the general east northeast.
Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture at the subject property consists of soil identified as Veritas, a fine sandy loam in the Class B Hydrogeologic Group which includes moderate infiltration rates. Corrosion potential of this soil for uncoated steel is high.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water feature in the vicinity of the subject property is the San Joaquin River, located approximately 1-mile west of the subject property.
Flood Zone	The EDR database report shows that the subject property is not located within either a Special Flood Zone Hazard Area (1%) or a 0.2% Annual Chance Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A complete list and description of databases investigated, in compliance with ASTM E1527-21 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. Subject Property Database Search

The property address 11293 South Manthey Road, Lathrop, California is listed on the following governmental databases in the EDR Report under the name GURDIP KELLY

Database	Summary
HAZNET	A single hazardous waste manifest on file from 2015. The waste manifest depicts approximately 0.46-tons of asbestos containing waste removed from the subject property.
HWTS	Listed with an EPA ID of CAC002806664 with a creation date of 03/10/2015 and an inactive date of 06/09/2015. The facility is depicted as an inactive and temporary state facility with no other information on file.

3.3.2. Site Vicinity Database Search

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGI retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C. The following information was obtained:

Type	Regulatory Agency Database	AMSD	Number of Sites within the AMSD
Federal	National Priority List Sites: **NPL, Proposed NPL, NPL LIENS**	1mile	1
Federal	Delisted National Priority List Sites: **Delisted NPL**	½-mile	0
Federal	Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites: **FEDERAL FACILITY, SEMS**	½-mile	1

Type	Regulatory Agency Database	AMSD	Number of Sites within the AMSD
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites: **SEMS-ARCHIVE**	½-mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report Sites: **CORRACTS**	1 mile	**1**
Federal	RCRA Non-CORRACTS Treatment, Storage, or Disposal (TSD) Sites: **RCRA-TSDF**	½- mile	1
Federal	RCRA Generator Sites: **RCRA-LQG, RCRA-SQG, RCRA – CESQG, RCRA NonGen/NLR**	¼-mile	2
Federal	Institutional Control/Engineering Control Registry Sites: **LUCIS, US ENG CONTROLS, US INST CONTROL**	½-mile	0
Federal	Environmental Response and Notification System Sites: **ERNS**	<1/8-mile	0
State & Tribal	Solid Waste Disposal Facilities and/or Landfill Sites: **SHWF**	½-mile	0
State & Tribal	Leaking Storage Tank Sites: **LTANKS, LUST, LUST TRUST**	½-mile	**2**
State & Tribal	Registered Storage Tank Sites: **UST, AST**	¼-mile	**13**
State & Tribal	Voluntary Cleanup Sites: **INDIAN VCP, VCP**	½-mile	0
State, Tribal and Local	Brownfield Sites: **BROWNFIELDS, US BROWNFIELDS**	½-mile	0
Local	Dry Cleaning Facility Sites: **DRYCLEANERS**	¼-mile	0
Either	Unmappable Database Listings: **orphan sites**	Database dependent	**6**

AMSD: Appropriate Minimum Search Distance

AGI's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, AGI considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;
- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;

- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria and based on a review of readily available information contained within the regulatory database report, AGI did not identify adjacent or nearby sites (e.g. within ¼-mile radius) listed on the regulatory database report that were judged to present a potential environmental risk to the subject property with the exception of the following:

Site	Distance & Direction[1]	Database(s) & Summary	Environmental Concern[2]
MOORMAN MFG 250 E Roth Dr	830 feet E Equi-gradient	RCRA NON-GEN, SWEEPS UST, HIST UST, CERS HAZ WASTE, CERS, UST, EMI: Verified as a current non-generator and chemical storage facility with handler activities. No violations or evaluations on file. A total of two underground storage tanks on file containing 10,000-gallons each of gasoline and diesel fuel.	No indication - based on the non-generator status and distance to the SP.
BENETO TANK LINE 10998 S Harlan Rd	872 feet ENE Equi-gradient	LUST, CORTESE, CERS: Leaking underground storage tank with diesel. Case closed in 2007 and issued a closure no further action letter.	No indication - based on the regulatory status and distance to the SP.
SHARPE ARMY DEPOT 700 E Roth Rd	1,916 feet E Equi-gradient	NPL, SEMS, CORRACTS, RCRA, US ENG CONTROLS, US INST CONTOLS, HIST UST, RCRA NON-GEN, ROD: The site operated as an Army Depot in the 1980's. US Army maintenance facility produced waste products that affected groundwater conditions.	No indication - based on the regulatory status and distance to the SP.
Notes: 1: distance and direction from subject property 2: environmental concern based on the EDR report SP: subject property		N: north S: south E: east W: west	NE: northeast SE: southeast NW: northwest SW: southwest

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, AGI contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on groundwater

flow direction, distance from the subject property and nature of the releases causing the environmental condition.

Additional agency searches include the following:

- San Joaquin County Environmental Health Department (SJCEHD) and the Central Valley Regional Water Quality Control Board (Regional Board) maintain records of industrial violations for this area and are the lead agencies for the enforcement of the State Underground Storage Tank and Hazardous Waste Laws for San Joaquin County. AGI requested to review any files that were available.
- The Regional Board also maintains an online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. AGI reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites.
- The California Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of hazardous waste regulations, cleanup of existing contamination, pollution prevention and reduction in hazardous waste and toxic materials and identification of potential new pollutants. The DTSC maintains the EnviroStor Data Management System (ENVIROSTOR) which allows for the search for information on investigation, cleanup, permitting and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. AGI reviewed the ENVIROSTOR database for any information that may be available.
- The United States Environmental Protection Agency (USEPA) provides an online computer database, ENVIROFACTS, providing lists of sites listed on multiple USEPA databases. AGI reviewed the ENVIROFACTS database for any information that may be available.
- The San Joaquin Valley Air Pollution Control District (SJVAPCD) is the air district for the counties of San Joaquin, Stanislaus, Merced, Fresno, Kings, Tulare and Lathrop. AGI contacted the SJVAPCD for any information available.
- The California Geologic Energy Management Division's (CalGEM) online Well Finder application presents California's oil and gas industry information from the geographic perspective. AGI reviewed the CalGEM Well Finder database for information that may be available for the subject property or surrounding sites.

3.4.1. Additional Subject Property Record Sources

The subject property address was searched on the following record sources:

SOURCE	SUMMARY
Regional Board & GeoTracker database	The subject property is not listed on the GeoTracker database, and the Regional Board does not have any records on-file.

SOURCE	SUMMARY
DTSC & ENVIROSTOR database	The subject property is not listed on the ENVIROSTOR database and the DTSC does not have any records on-file.
USEPA ENVIROFACTS	The subject property is not listed on the ENVIROFACTS database.
SJVAPCD	The SJVAPCD does not have records on-file for the subject property.
SJCEHD	SCCEHD records for the subject property pertain to the construction of a 150-foot-deep irrigation well and installation of a 10hp well pump.
CalGEM	According to the CalGEM Well Finder, no oil and/or gas wells are located in the vicinity of the subject property.

3.4.2. Additional Site Vicinity Record Sources

The SJCEHD and Regional Board maintain records for, and are responsible for, enforcement of state UST and hazardous waste laws. AGI commonly reviews files for up-gradient sites under active environmental regulation to ascertain the current site status and its potential to impact the subject property. No sites, under active or past environmental regulation, were identified by the database search within the required search radius of potential concern to the property.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

No records were provided to AGI by the user and/or property owner during the course of this Phase I.

3.6. VAPOR ENCROACHMENT CONDITION

The encroachment of hydrocarbon and volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry-cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-15 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), AGI evaluated the potential for a Vapor Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that ‘a VEC does not exist’ at the property. A copy of the AGI-generated Tier 1 VEC screening form is provided within Appendix E.

4.0. SITE RECONNAISSANCE

Subject property site reconnaissance was conducted by AGI representatives on 15 March

2023 and 05 April 2023. At the time of the site visits the weather was clear and cold. Primary features of the property are shown in a site plan provided. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted.

4.2. GENERAL SITE SETTING

The subject property comprises two adjoining parcels, totaling 21.7 acres, situated along South Manthey Road, within an agricultural area of unincorporated San Joaquin County. At the time of the site reconnaissance, the property was vacant, except for the remnants of a demolished single-family dwelling and an abandoned well. Additionally, several stockpiles of aggregate and road base were stored throughout the property.

During the initial inspection on 15 March 2023, AGI noted an apparent illegal dump site with petroleum containing waste, in the driveway entrance for the former residence on the eastern portion of the property. The dump site encompassed an area of approximately 25-square feet, with numerous 55-gallon drums and several smaller containers filled petroleum products, paints, and coolants. Several of the containers were open, and leaking contents onto bare soil. Oil-stained soil, concrete and waste construction materials were also noted near the apparent dump site.

It is AGI's understanding that the property owner contracted with Clean Harbors to remove the waste materials and cleanup the petroleum impacted soil. Clean-up activities included the removal of all waste materials and contaminated construction waste. Additionally, approximately 5.1 cubic yards of impacted soil were excavated and placed in covered bins for disposal. Representatives for Clean Harbors reportedly utilized visual observations to determine that all impacted soil was removed.

On 05 April 2023, AGI conducted a follow-up inspection of the subject property. No obvious petroleum staining or odors were observed in soils remaining within the excavation area (former apparent dump area).

The following is a description of the property improvements:

Structures	Building footprint and subfloor of a single-family residence was observed on the eastern subject parcel (191-250-140-000).
Adjoining / Access / Egress Roads	The property is accessible via Manthey Road. A portion of an asphalt driveway is located west of Manthey Road.
Surface Types	The property is covered with grass and bare soil. A portion of an asphalt driveway is located west of Manthey Road.

Additional Features	Large amounts of road base aggregate were stockpiled for planned development of the property. An abandoned irrigation well was observed northwest of the former residence.
Surface Water	None.

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	Agricultural land and residence (11199 South Manthey Road)
South	Agricultural land and residence (11401 South Manthey Road)
East	South Manthey Road followed by California Interstate 5
West	Agricultural land

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR AND INTERIOR OBSERVATIONS

The following was observed at the time of the property reconnaissance:

YES	NO	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
	X	**Pits, ponds or lagoons with respect to waste treatment or disposal**
X		**Stained soil or pavement, patched pavement** *Approximately 30 square feet of petroleum-stained soil and concrete was observed at an apparent illegal dump site on the eastern portion of the subject property.* *Subsequent clean-up activities performed after initial AGI's inspection included excavation and removal of approximately 5.1 cubic yards of petroleum impacted soil and concrete. During a follow-up inspection conducted in April 2023, AGI did not observe any obvious petroleum staining or odors in the soils remaining within the excavation area.*
	X	**Stressed vegetation (from causes other than insufficient water)**
	X	**Fill dirt from unknown source, or contaminated source**
	X	**Solid waste (mounds or depressions suggesting waste disposal)**
	X	**Wastewater / storm water discharged into a drain, ditch or stream**
X		**Wells (abandoned, irrigation, domestic, monitoring or oil and gas)** *An abandoned irrigation well was observed on the central portion of the subject property, northeast of the former dwelling.*
	X	**Dry wells**

YES	NO	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
	X	**Septic systems or cesspools**
	X	**Movement of hazardous materials to adjacent properties**
X		**Hazardous substances and/or petroleum products** *Numerous petroleum containing products were observed on the subject property at an apparent illegal dump site on the eastern portion of the subject property. Substances include discarded used oil filters and other small containers of used motor oil.* *Subsequent clean-up activities performed after AGI's initial inspection have since removed and disposed of the waste petroleum products.*
	X	**Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances**
	X	**Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances**
	X	**Strong, pungent or noxious odors**
X		**Pools of liquid (other than water)** *An apparent illegal dump site with several open containers of various waste automotive fluids and petroleum products was noted in the driveway area for the former dwelling on the eastern portion of the property. Pooled oil and coolant was observed on the bare soil in the immediate vicinity of the apparent dump site.* *Subsequent clean-up activities performed after AGI's initial inspection included removal of all waste materials and excavation of approximately 5.1 cubic yards of impacted soil. During a follow-up inspection conducted in April 2023, AGI did not observe any obvious petroleum staining or pooled liquids within the excavation area.*
X		**55-gallon drum or large sack storage** *An apparent illegal dump site was noted in the driveway entrance for the former dwelling on the eastern portion of the property. Three 55-gallon drums containing petroleum products and waste were noted within the dump area.* *Subsequent clean-up activities performed after AGI's initial inspection included removal of all drums and waste materials. During a follow-up inspection conducted in April 2023, AGI did not observe any drums or containers on the property.*
	X	**Unidentified substance containers**
	X	**Stains and/or corrosion on floors, walls or ceiling (except water)**
	X	**Drains and sumps**
	X	**Oil-water separator/clarifier**
	X	**Electrical or hydraulic equipment known to contain PCBs**
	X	**Obvious signs of possible ACMs**
	X	**Obvious signs of mold**
	X	**Other areas of environmental concern**

5.0. MATERIAL STORAGE

At least three 55-gallon drums and several smaller containers filled with petroleum products were observed in an illegal dump site located on the eastern portion of the subject property. Subsequent clean-up activities have since removed all petroleum products from the subject property.

No other current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the subject property or have been historically utilized on the property.

6.0. INTERVIEWS

Interviews performed during the course of this Phase I are described below.

Interviewee	Interview Summary
Property Owner	Mr. Gurbinder Singh, current property owner, was interviewed by AGI personnel on 15 March 2023. The following information was obtained from Mr. Singh: • Mr. Singh purchased the property initially in May of 2019 from the Kelley Family. • The subject property has been used exclusively for agriculture and residential. • A decommissioned septic system is located on the subject property. • Mr. Singh states that trash and debris have been illegally dumped on the subject property, including petroleum products (used automotive oil filters). Clean-up action is underway according to Mr. Singh. • No underground storage tanks, clarifiers, subsurface hoists, discarded automobile batteries, stained soil, etc. are present on the subject property. • No environmental liens, violations or lawsuits have been filed against the property. • Mr. Singh is unaware of any other potential environmental issues.
Site Manager	The property site manager was not interviewed during the course of this Phase I.
Property Occupant(s)	Property occupants were not interviewed during the course of this Phase I.
Local Government Officials	With the exception of file review requests, no local government officials were interviewed during the course of this Phase I.
Others	No additional interviews were performed during the course of this Phase I.

ASTM-compliant interview/questionnaire documentation is provided as Appendix D.

7.0. BUSINESS ENVIRONMENTAL RISKS – NON-ASTM SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice that have the potential to pose business environmental risks are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

No structures are located on the property.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials. Asbestos was introduced to building materials on large scale during the 20th century because of its physical properties demonstrating its abilities as insulation, fire-retardant, material strengthening and durability, and it served as a good binding product. Because of these properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, certain uses developed before 1989 are still allowed. When asbestos-containing materials are damaged or disturbed by maintenance, repair, remodeling or demolition activities, microscopic fibers can become airborne and inhaled into the lungs, where they can cause significant health problems.

No structures are located on the property.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

No structures are located on the property.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in ground water and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, the subject property county, San Joaquin, is located in a low radon potential area (Zone 3), defined as having a 'predicted average indoor radon screening level of less than 2 pCi/L'.

7.5. WETLANDS AND SURFACE WATERS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

AGI searched the subject property addresses on local, state and federal databases. No records were found regarding any outstanding regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-21 and USEPA AAI are

presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 47 years, between 1888 and 1937, with the earliest researched information being a Topographic Map dated 1888. Data gaps do not exceed five years between 1937 through the present. AGI does not believe any gaps in the data reviewed have affected the ability to identify potential environmental issues.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-21, the following findings are differentiated below as Business Environmental Risk (including the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials may constitute a Business Environmental Risk), de minimis conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report

8.2.1. Business Environmental Risk

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property with the exception of the abandoned water well. If the well will not be rehabilitated for future use, the well should be destroyed under permit.

8.2.2. *De Minimis* Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.3. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.4. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.5. Recognized Environmental Conditions

This assessment has revealed no evidence of RECs in connection with the subject property.

8.2.6. Other Potential Environmental Issues

This assessment has revealed no evidence of other non-ASTM-defined environmental issues in connection with the subject property except for the petroleum-containing waste observed on the eastern portion of the subject property during the initial property inspection on 15 March 2023. Several drums and other containers containing waste oil, oil, used oil filters, paint and other wastes were illegally dumped near the former driveway entrance onto the eastern subject parcel. Several of the drums and containers were open and spilling petroleum contents onto bare soil.

In March 2023, the property owner contracted with Clean Harbors to remove the waste materials and cleanup the petroleum-impacted soils. Response activities began on 18 March 2023. Clean-up activities included the removal of all waste materials and contaminated construction waste. Additionally, approximately 5.1 cubic yards of impacted soil were excavated and placed in covered bins for disposal. Representatives for Clean Harbors reportedly utilized visual observations to determine that all impacted soil was removed.

On 05 April 2023, AGI conducted a follow-up inspection of the subject property. No obvious petroleum staining or odors were observed in soils remaining within the excavation area. Any residual petroleum contamination (if any) will likely be minimal and not of significant concern to the subject property. Confirmation soil-sampling was not conducted by Clean Harbors during the March 2023 clean-up; however, confirmation soil samples should be considered to validate that the impacted soil has been successfully removed.

8.3. CONCLUSIONS AND OPINION

AGI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at 11293 South Manthey Road and 169 Manila Road, Lathrop, California.

It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGI did not identify any RECs on the subject property during the course of the Phase I.

However, several drums of waste oil, oil, oil filters and paint were dumped and impacted the soil on the eastern portion of the property in early March 2023. In mid-March 2023, 5.1 cubic yards of soil were excavated for disposal. Only visual observations were utilized to determine the extent of the excavation. While the soil visually appears clean, confirmation soil samples should be considered to validate the successful removal of the impacted soil.

8.4. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Rebecca Natal
Project Scientist

Robert D. Loeffler, P.G.
Senior Geologist/ Vice President
Registered Environmental Property Assessor No. 136161

8.5. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix F.

8.6. REFERENCES

The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

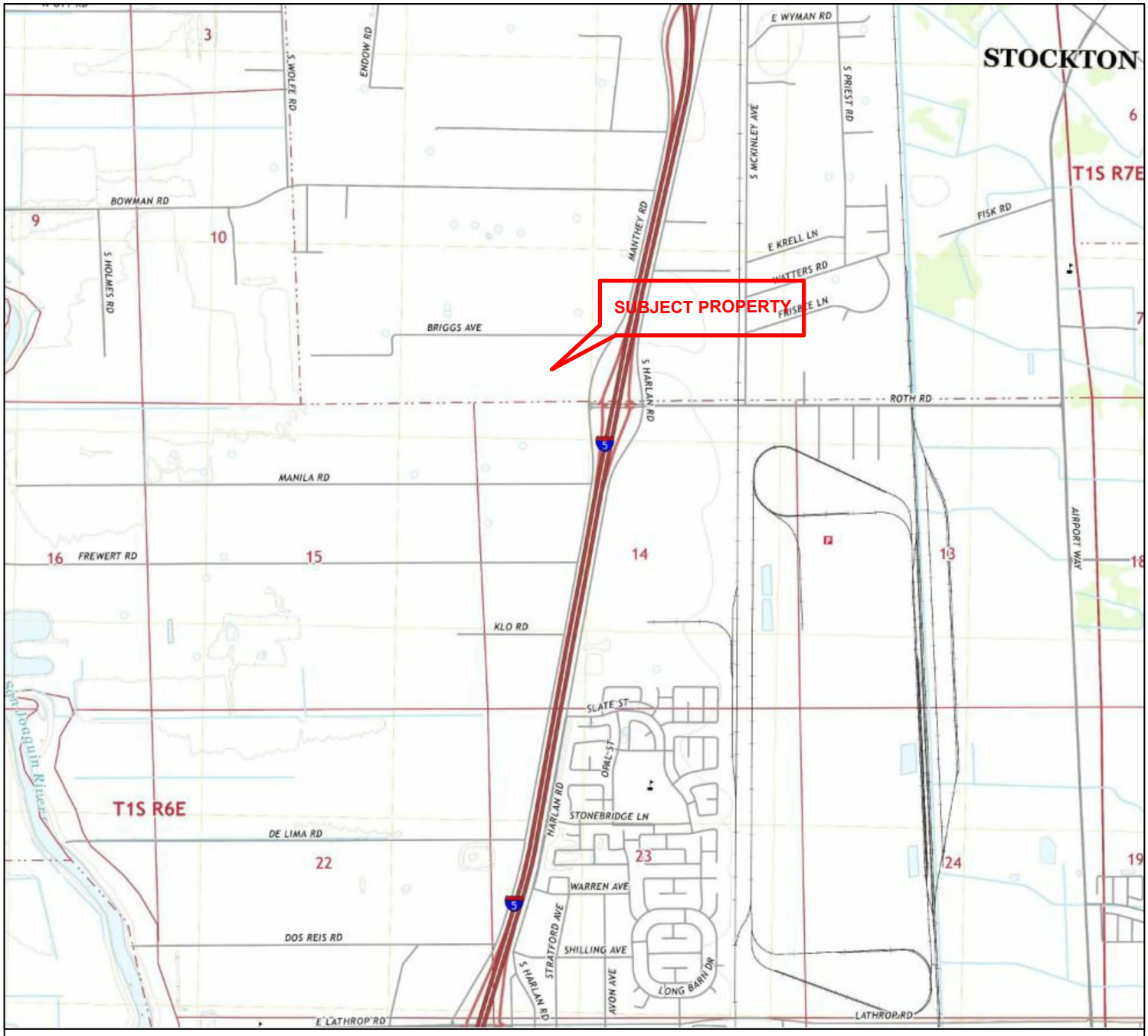
- ASTM, E1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2021.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The
- EDR-City Directory Abstract, Certified Sanborn® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.

- Bacay Property Phase I Environmental Site Assessment Report, AdvancedGeo Inc, April 2021.
- Kelley – Manthey Property Phase I Environmental Site Assessment Report, AdvancedGeo Environmental, March 2019.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/
- California Geological Survey – Note 36: California Geomorphic Provinces: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- California Geologic Energy Management Division (CalGEM) Well Finder: https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download: www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html

FIGURES



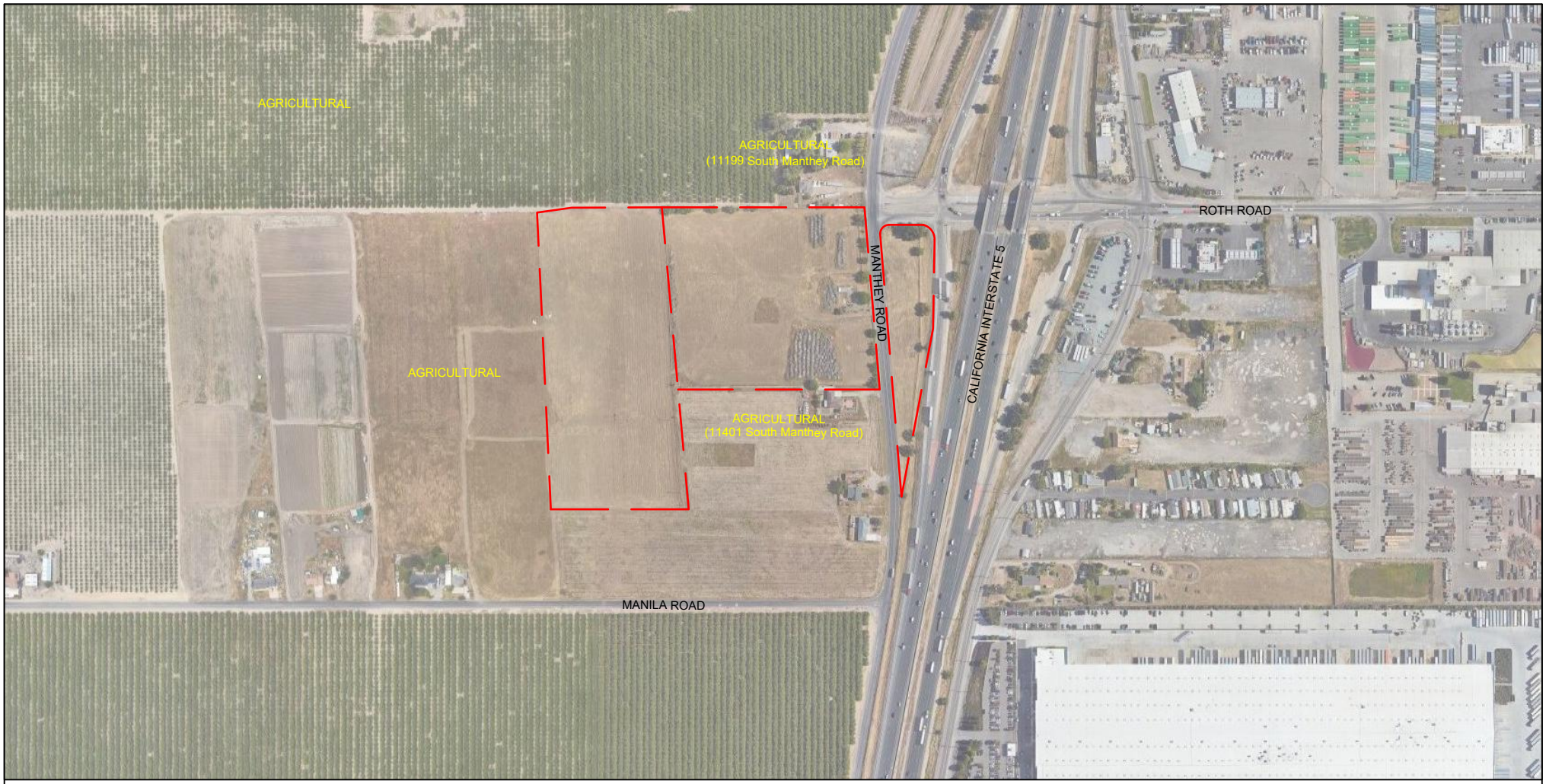
LATHROP, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

LOCATION MAP

SINGH PETROLEUM AND BACAY PROPERTIES
11293 SOUTH MANTHEY ROAD & 169 MANILA ROAD
LATHROP, CALIFORNIA

DATE:	APRIL 2023
FILE:	LOCATION
DRAWN BY:	ASC
PROJECT NO.	23-7148
FIGURE:	1



LEGEND

— — : Approximate Property Boundary

*Base map from Google Earth

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SITE VICINITY

SINGH PETROLEUM AND BACAY PROPERTIES
11293 SOUTH MANTHEY ROAD & 169 MANILA ROAD
LATHROP, CALIFORNIA

DATE: APRIL 2023
FILE: VICINITY
DRAWN BY: ASC
PROJECT NO. 23-7148
FIGURE: 2

LEGEND

: Approximate Property Boundary

: Approximate Building Footprint

: Former Well Location

: Excavation Area

*Base map from Google Earth

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SITE PLAN

SINGH PETROLEUM AND BACAY PROPERTIES
11293 SOUTH MANTHEY ROAD & 169 MANILA ROAD
LATHROP, CALIFORNIA

DATE: APRIL 2023

FILE: SP

DRAWN BY: ASC

PROJECT NO. 23-7148

FIGURE: 3

APPENDIX A

Photographs of Subject Property

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 1: Typical view of subject property, taken from the central portion of the subject property. View looking east.

Photo 2: Typical view of subject property, taken from the central portion of the subject property. View looking west.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 3: Concrete waste pile located on the western portion of the subject property. View looking west.

Photo 4: Debris pile located on the western portion of the subject property, view looking northwest.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 5: Footprint and sub-floor of removed single family residence located on the eastern portion of the subject property along South Manthey Road. View looking northwest.

Photo 6: Abandoned agricultural well located northwest of the former subject property residence. View looking southwest.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 7: Additional view of abandoned irrigation well.

Photo 8: Western border of subject property, view looking south. Staged aggregate stockpiles are visible on the left.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 9: Southwestern corner of subject property. View looking southwest.

Photo 10: South Manthey Road followed by an subject property enclave surrounded by South Manthey Road to the west and south, Roth Road to the north, and California Interstate 5 on -ramp to the east.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 11: Typical aggregate stockpile located on the central portion of the subject property.

Photo 12: Former electrical equipment located northeast of former residence. View looking south.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 13: Illegal dump area including oil drums, oil filters, and other petroleum products located on the eastern portion of the subject property south of former residence. Photo taken prior to soil clean-up and excavation activities. View looking west.

(15 March 2023)

Photo 14: View of post soil excavation and clean-up activities. View looking west.

(05 April 2023)

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 15: Alternate view of illegal dump area on the eastern portion of the subject property. Photo taken prior to soil clean-up and excavation activities. View looking east.

(15 March 2023)

Photo 16: Alternate view of post soil excavation and clean-up activities. View looking east.

(05 April 2023)

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 17: Eastern portion of subject property followed by vacant and agricultural land.

Photo 18: Residence located northeast of subject property along South Manthey Road.

APPENDIX A
SINGH PETROLEUM AND BACAY PROPERTY

Photo 19: South Manthey and a rural residence located south of the subject property. View looking south from South Manthey Road.

Photo 20: South Manthey Road followed by subject property and California Interstate 5. View looking north.

APPENDIX B

Historical Documents

DETAIL REPORT

Property Address: **11293 S MANTHEY RD LATHROP CA 95330-9728**

Ownership

Parcel# (APN):	**191-250-140-000**
Parcel Status:	**ACTIVE**
Owner Name:	**SINGH PETROLEUM INVESTMENTS INC**
Mailing Addr:	**17900 MURPHY PKWY LATHROP CA 95330**
Legal Description:	

Assessment

Total Value:	**$3,258,653**	Use Code:	**100**	Use Type:	**VACANT**
Land Value:	**$3,258,653**	Tax Rate Area:	**102-044**	County Zoning Code:	
Impr Value:		Year Assd:	**2022**	Census Tract:	**51.19/3**
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**0%**	Delinquent Yr:	**2020**		
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**05/17/2019**			**05/17/2019**
Recording Doc:	**2019R050576**			**2019R050575**
Doc type:	**GRANT DEED**			
Transfer Amount:	**$3,100,000**			
Seller (Grantor):	**KELLEY KANWAR E ETAL**			

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:	**NONE**	Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**11.400**	Spaces:		Site influence:	
Lot SqFt:	**496,584**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

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DETAIL REPORT

Property Address: **169 MANILA RD LATHROP CA 95330-8709**

Ownership

Parcel# (APN):	**191-250-060-000**
Parcel Status:	**ACTIVE**
Owner Name:	**BACAY ANTONIO A TR ETAL**
Mailing Addr:	**2351 TILDEN PARK ST STOCKTON CA 95206**
Legal Description:	

Assessment

Total Value:	**$62,730**	Use Code:	**450**	Use Type:	**AGRICULTURAL**
Land Value:	**$54,417**	Tax Rate Area:	**102-044**	County Zoning Code:	
Impr Value:	**$8,313**	Year Assd:	**2022**	Census Tract:	**51.19/3**
Other Value:		Property Tax:		Price/SqFt:	
% Improved:	**13%**	Delinquent Yr:			
Exempt Amt:		HO Exempt:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording date:	**11/04/2019**	**04/11/2016**	**08/24/2015**	**11/04/2019**
Recording Doc:	**2019R126667**	**2016R040534**	**2015R101305**	**2019R126667**
Doc type:	**DEED**	**DEED**	**DEED**	
Transfer Amount:				
Seller (Grantor):	**BACAY, ANTONIO A ETAL**			

Property Characteristics

Bedrooms:		Fireplace:		Units:	
Baths (Full):		A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:		Pool:		Building Class:	
Bldg/Liv Area:		Park Type:		Condition:	
Lot Acres:	**10.300**	Spaces:		Site influence:	
Lot SqFt:	**448,668**	Garage SqFt:		Timber Preserve:	
Year Built:		Bsmt SqFt:	**N/A**	Ag Preserve:	
Effective Year:					

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POR. N.1/2 SEC. 14 T.1S. R.6E., M.D.B.&M.

THIS MAP IS FOR ASSESSMENT USE ONLY

191-25

WEBER

Bk. 193

G

3

GRANT

N. 89° 23' E.

15

14

325.12'

325.1'

324.87'

325.38'

9.76 AC

(1)

8.83 AC

(3)

9.48 AC

(12)

9.55 AC

(5)

10.3 AC

(6)

1017.5'

1316.40'

S. 3° 28' E.

1314.33'

1312.25'

1308.10'

N. 4° 05' W.

1308.10'

SUBJECT PROPERTY

(14)

11.40 ACS.

N. 3° 28' W. 1017.5'

689.26'

S. 89° 52' W.

6.84 AC

(9)

434.00'

230.37'

S. 4° 05' E.

422.30'

S. 89° 31' E.

S. 89° 31' E.

7.03 AC

(7)

298.86'

(2)

135.25'

(13)

N. 89° 45' E.

150.00'

150.00'

150.00'

150.00'

325.25

84.25

135.00'

106.00'

70.0'

150.00'

105.00'

325.49'

1026.18'

S. 89° 45' W.

MANILA ROAD

(23)

(26)

L=172.60'

R=1830'

R=1770'

47.9

97.08'

62.26'

425.33'

N. 4° 54' W.

470.55'

N. 0° 00' E.

303.06'

N. 6° 10' 6" E.

R=1970'

34.00'

176.38'

173.56'

40.45'

(10)

251.43'

R=1970'

49.44'

MANTHEY ROAD

ROUTE NO. 5

INTERSTATE

HARLAN ROAD

J.X. ROAD OR ROTH ROAD

30'

Bk. 196

SAN JOAQUIN COUNTY CALIFORNIA ASSESSOR

1" = 300'

HIGHEST A.P.N. USED			
YEAR	PAR. #	PAR. #	PAR. #
07-08	14		

NOTE: Assessor's Parcel Numbers Shown in Circles.
Assessor's Block Numbers Shown in Ellipses.

Assessor's Map Bk.191 Pg.25
County of San Joaquin, Calif.

Singh Petroleum and Bacay Properties

11293 South Manthey Road and 169 Manila Road

Lathrop, CA 95330

Inquiry Number: 7273084.3

March 07, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/07/23

Site Name:

Singh Petroleum and Bacay Pr
11293 South Manthey Road an
Lathrop, CA 95330
EDR Inquiry # 7273084.3

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 95215
Contact: Linda Phillips

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Certified Sanborn Results:

Certification # E0A3-4068-A8EA

PO # NA

Project Singh Petroleum and Bacay

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: E0A3-4068-A8EA

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Site Name:

Singh Petroleum and Bacay Properties
11293 South Manthey Road and
169 Manila Road
Lathrop, CA 95330

Client Name:

AdvancedGeo, Inc.
837 Shaw Road
Stockton, CA 95215
Contact: Linda Phillips

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1993	1"=500'	Acquisition Date: May 23, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: June 26, 1982	USDA
1975	1"=500'	Flight Date: November 11, 1975	Cartwright
1968	1"=500'	Flight Date: May 01, 1968	USGS
1963	1"=500'	Flight Date: June 01, 1963	USDA
1957	1"=500'	Flight Date: July 12, 1957	USDA
1940	1"=500'	Flight Date: May 26, 1940	USDA
1937	1"=500'	Flight Date: August 14, 1937	USDA

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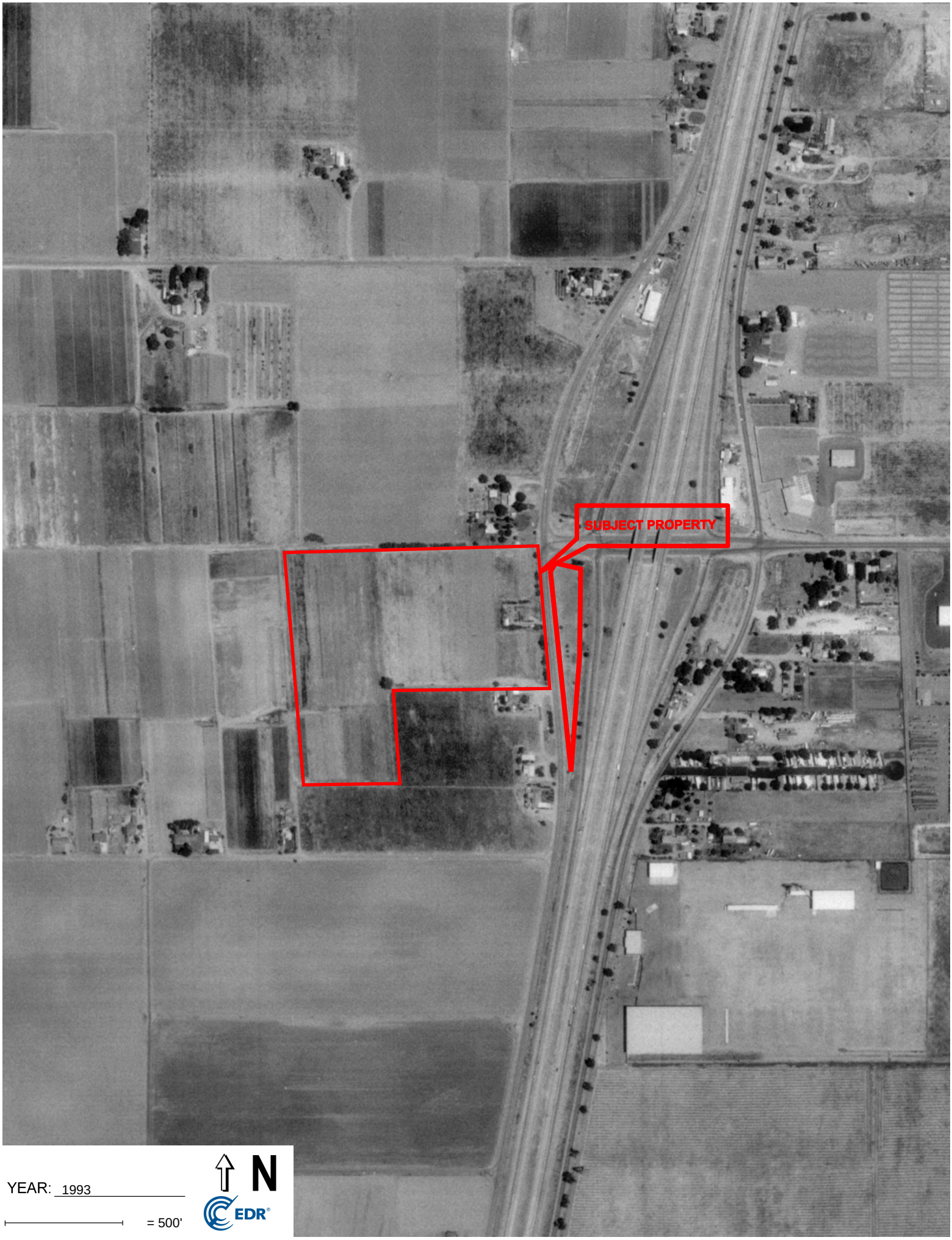
SUBJECT PROPERTY
N
YEAR: 2016
= 500'
EDR


SUBJECT PROPERTY
N
YEAR: 2012
= 500'
EDR


SUBJECT PROPERTY
N
YEAR: 2009
= 500'
EDR


SUBJECT PROPERTY
N
YEAR: 2006
= 500'
EDR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EDR


SUBJECT PROPERTY
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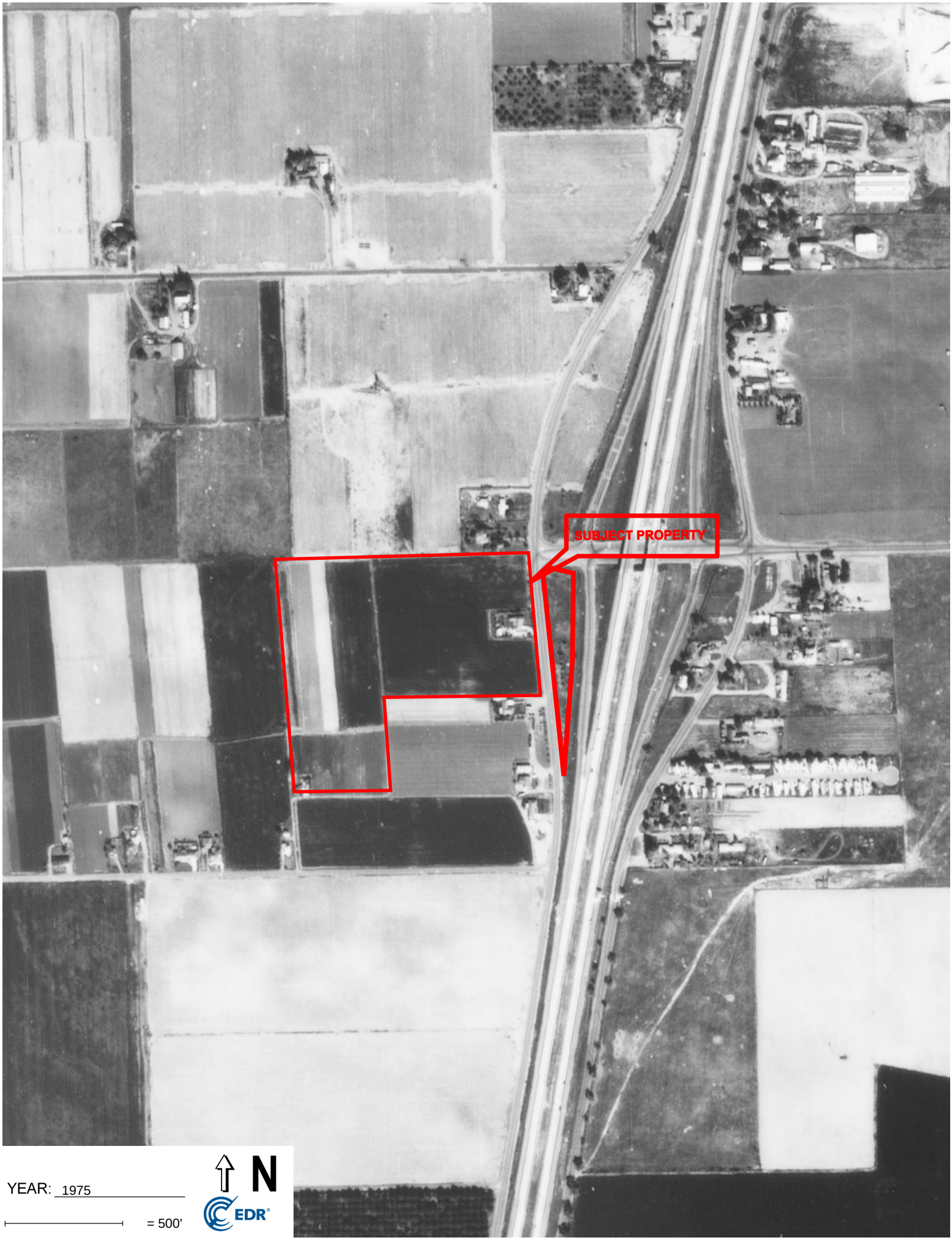
EDR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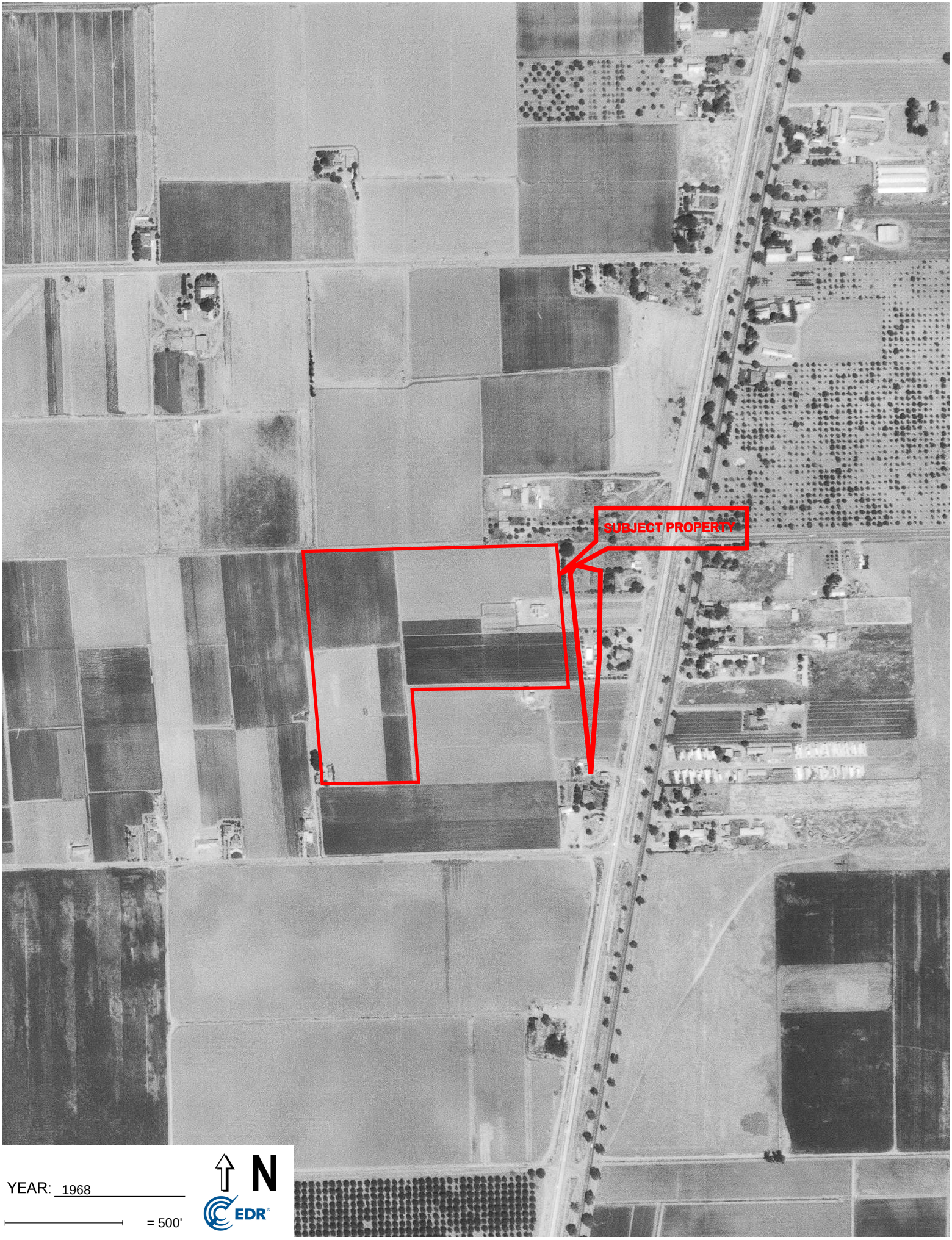
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SUBJECT PROPERTY
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= 500'
EDR

YEAR: 1957

= 500'

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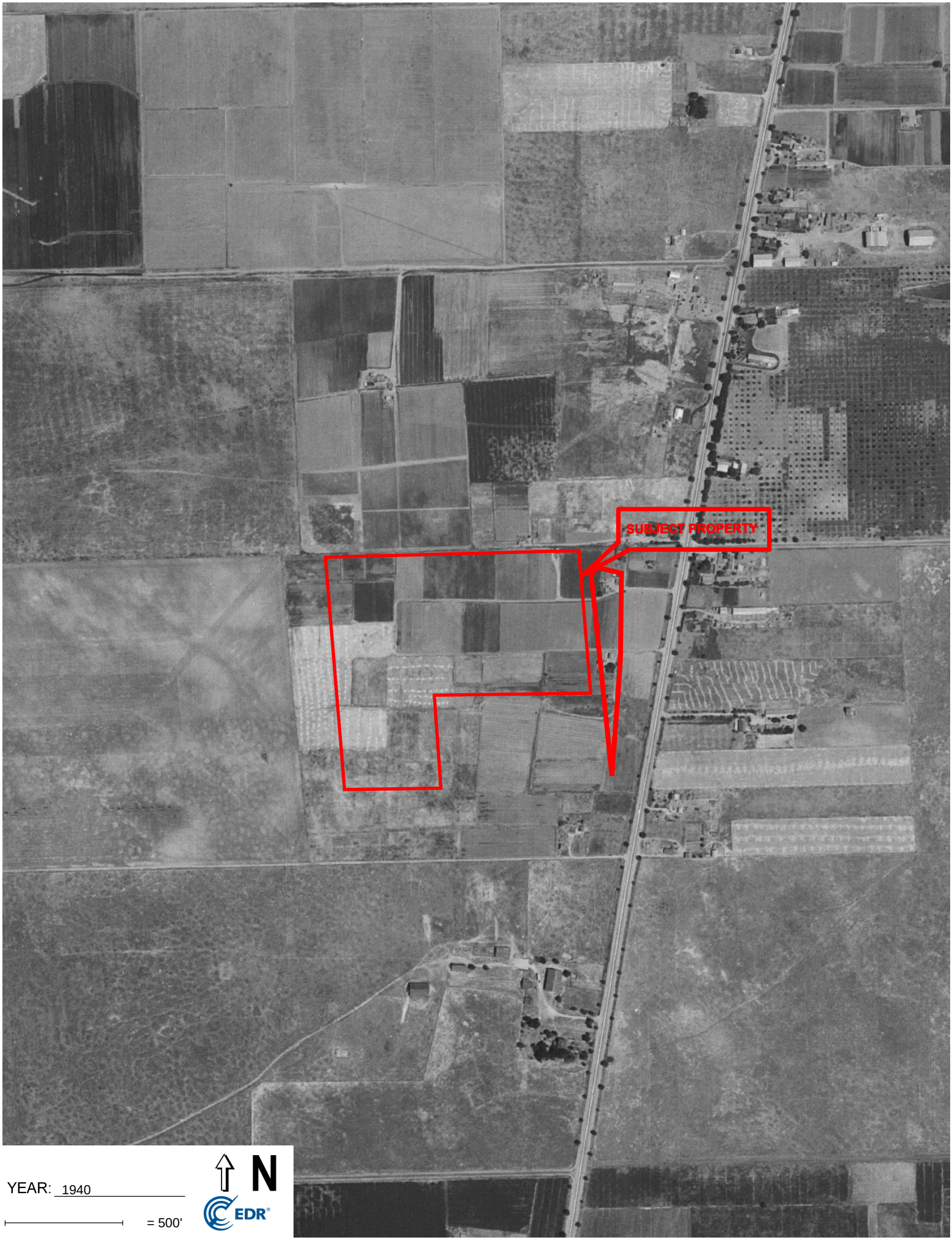
EDR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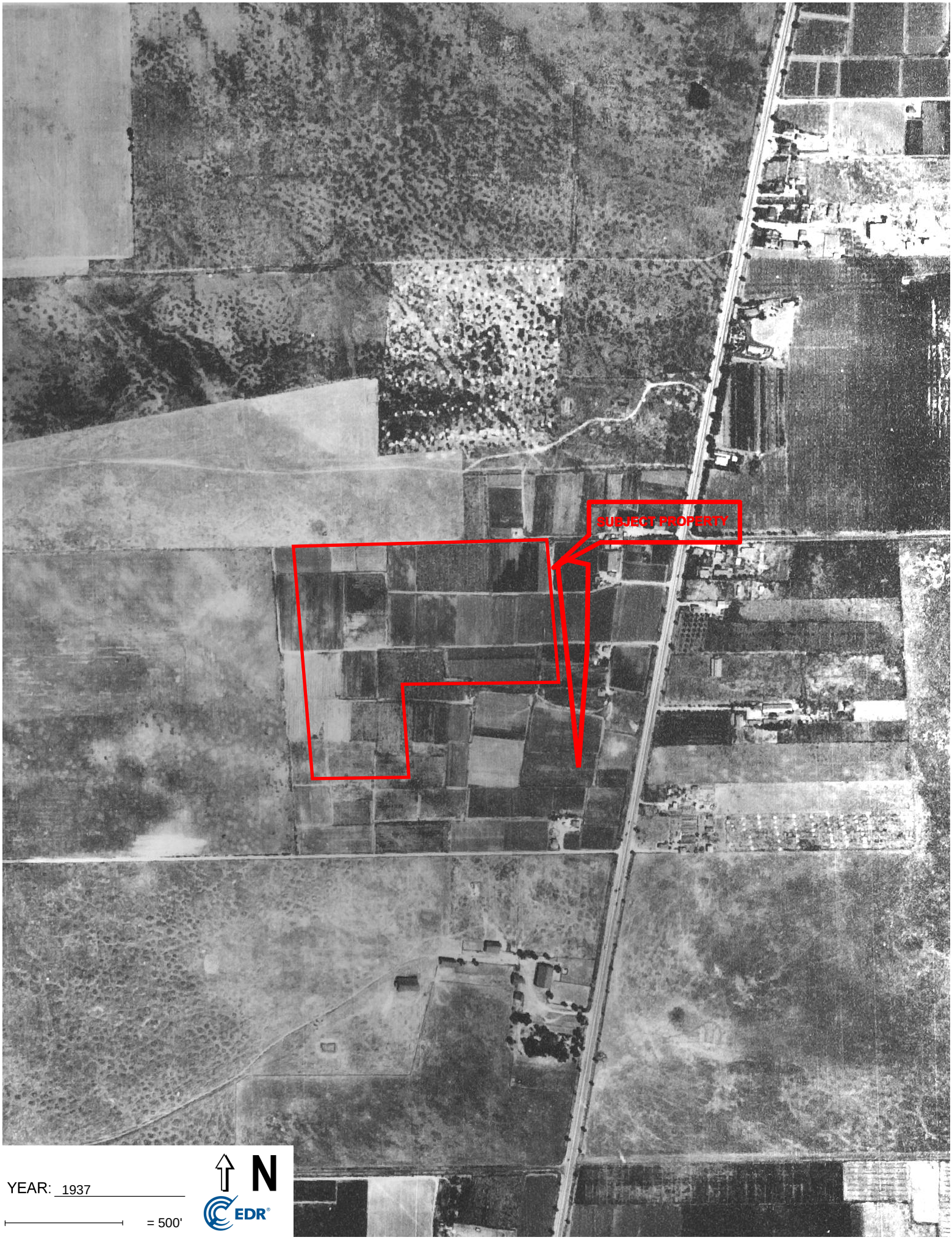
EDR


SUBJECT PROPERTY
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YEAR: 1937
= 500'
EDR

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330

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Site Name:

Singh Petroleum and Bacay Properties
11293 S Manthey R and 169 Manila Rd
Lathrop, CA 95335

Client Name:

AdvancedGeo,Inc.
837 Shaw Road
Stockton, CA 95215
Contact: Linda Phillips

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Search Results:

P.O.# NA
Project: Singh Petroleum and Bacay

Coordinates:

Latitude:	37.85477 37° 51' 17" North
Longitude:	-121.284402 -121° 17' 4" West
UTM Zone:	Zone 10 North
UTM X Meters:	650927.11
UTM Y Meters:	4191088.51
Elevation:	17.00' above sea level

Maps Provided:

2012
1996
1994
1987
1976
1968
1952
1915

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Topo Sheet Key

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2012 Source Sheets

Stockton West
2012
7.5-minute, 24000

Lathrop
2012
7.5-minute, 24000

1996 Source Sheets

Lathrop
1996
7.5-minute, 24000
Aerial Photo Revised 1982

1994 Source Sheets

Lathrop
1994
7.5-minute, 24000
Aerial Photo Revised 1982

1987 Source Sheets

Lathrop
1987
7.5-minute, 24000
Aerial Photo Revised 1982

Stockton West
1987
7.5-minute, 24000
Aerial Photo Revised 1982

Topo Sheet Key

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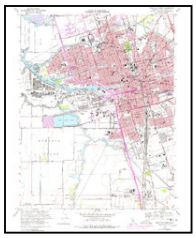
1976 Source Sheets

Lathrop
1976
7.5-minute, 24000
Aerial Photo Revised 1976



Stockton West
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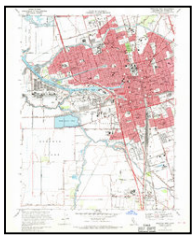
7.5-minute, 24000
Aerial Photo Revised 1976

1968 Source Sheets

Lathrop
1968
7.5-minute, 24000
Aerial Photo Revised 1968



Stockton West
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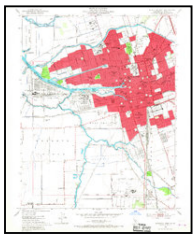
7.5-minute, 24000
Aerial Photo Revised 1967

1952 Source Sheets

Lathrop
1952
7.5-minute, 24000
Aerial Photo Revised 1949



Stockton West
1952
7.5-minute, 24000
Aerial Photo Revised 1949

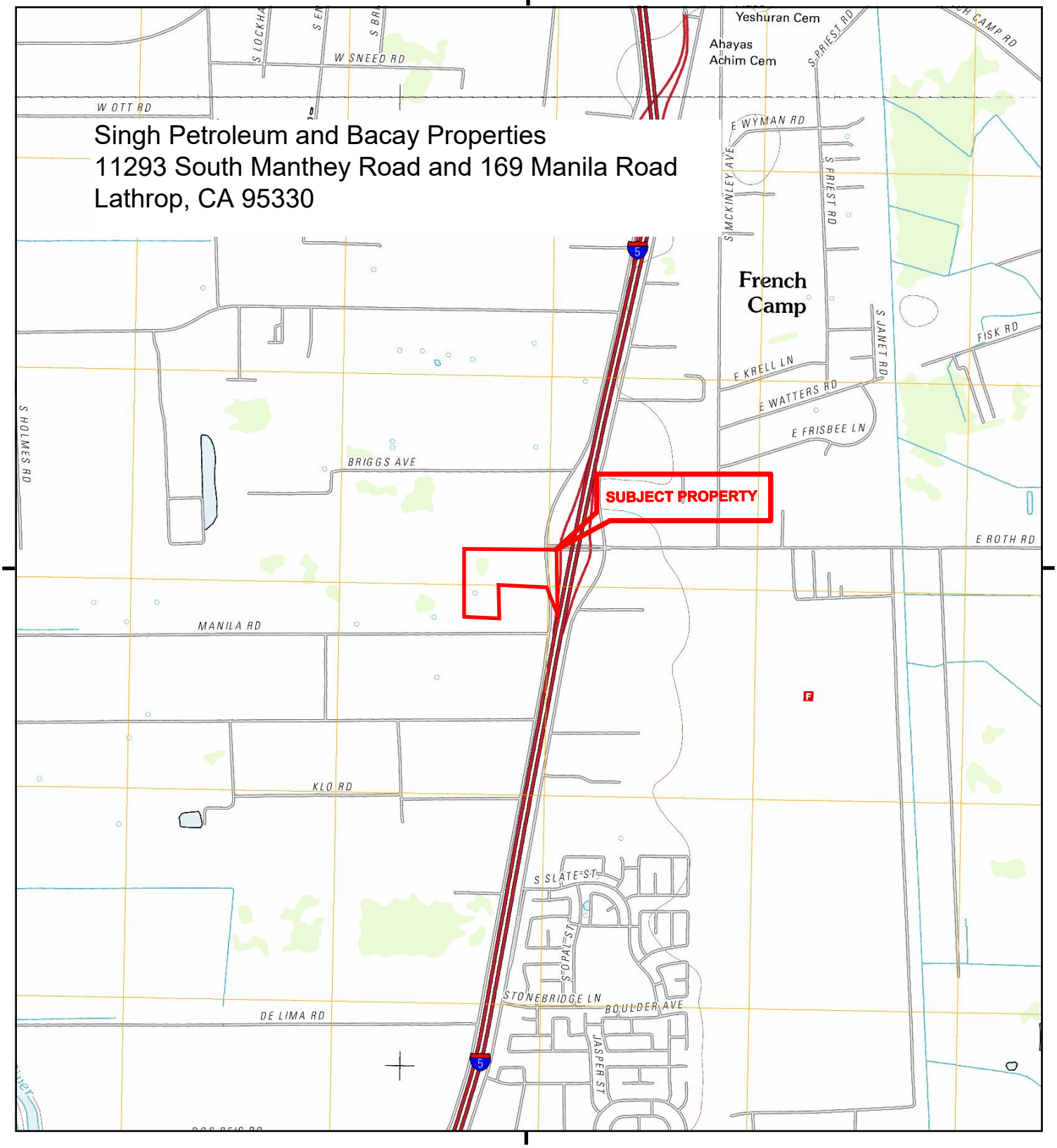
1915 Source Sheets

Lathrop
1915
7.5-minute, 31680

Historical Topo Map

2012

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330



This report includes information from the following map sheet(s).

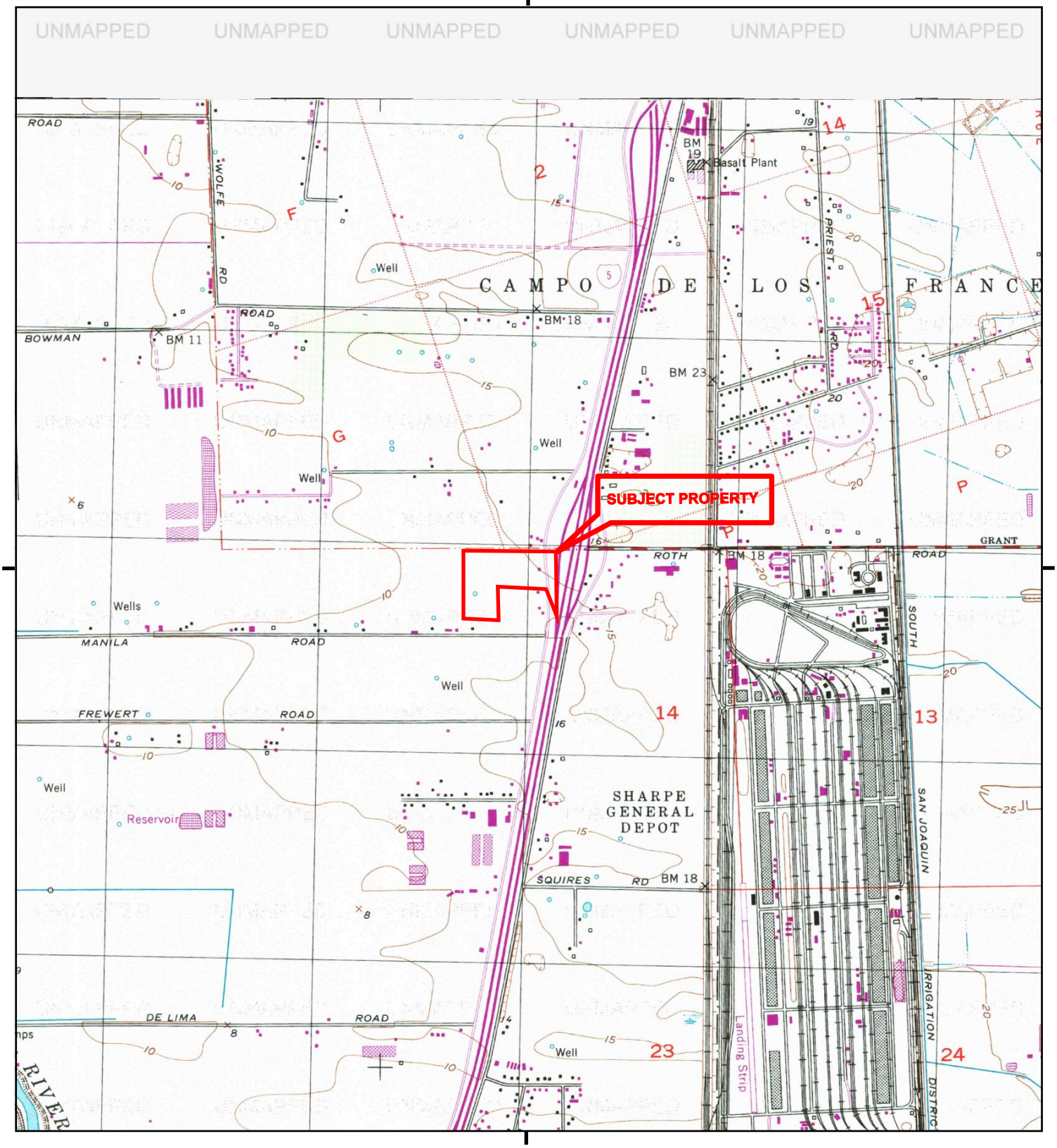
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lathrop, 2012, 7.5-minute
N, Stockton West, 2012, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

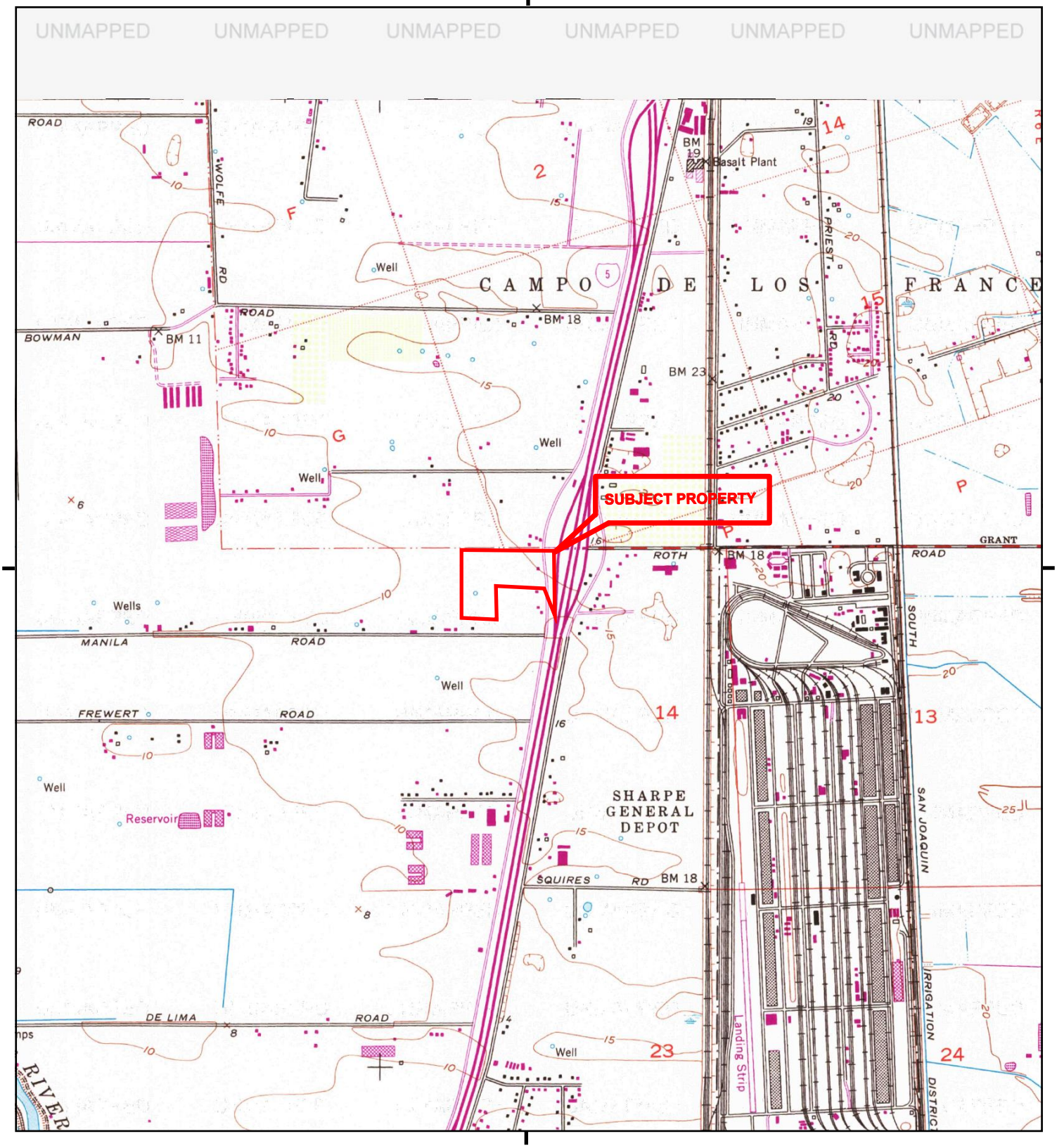
TP, Lathrop, 1996, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1994



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

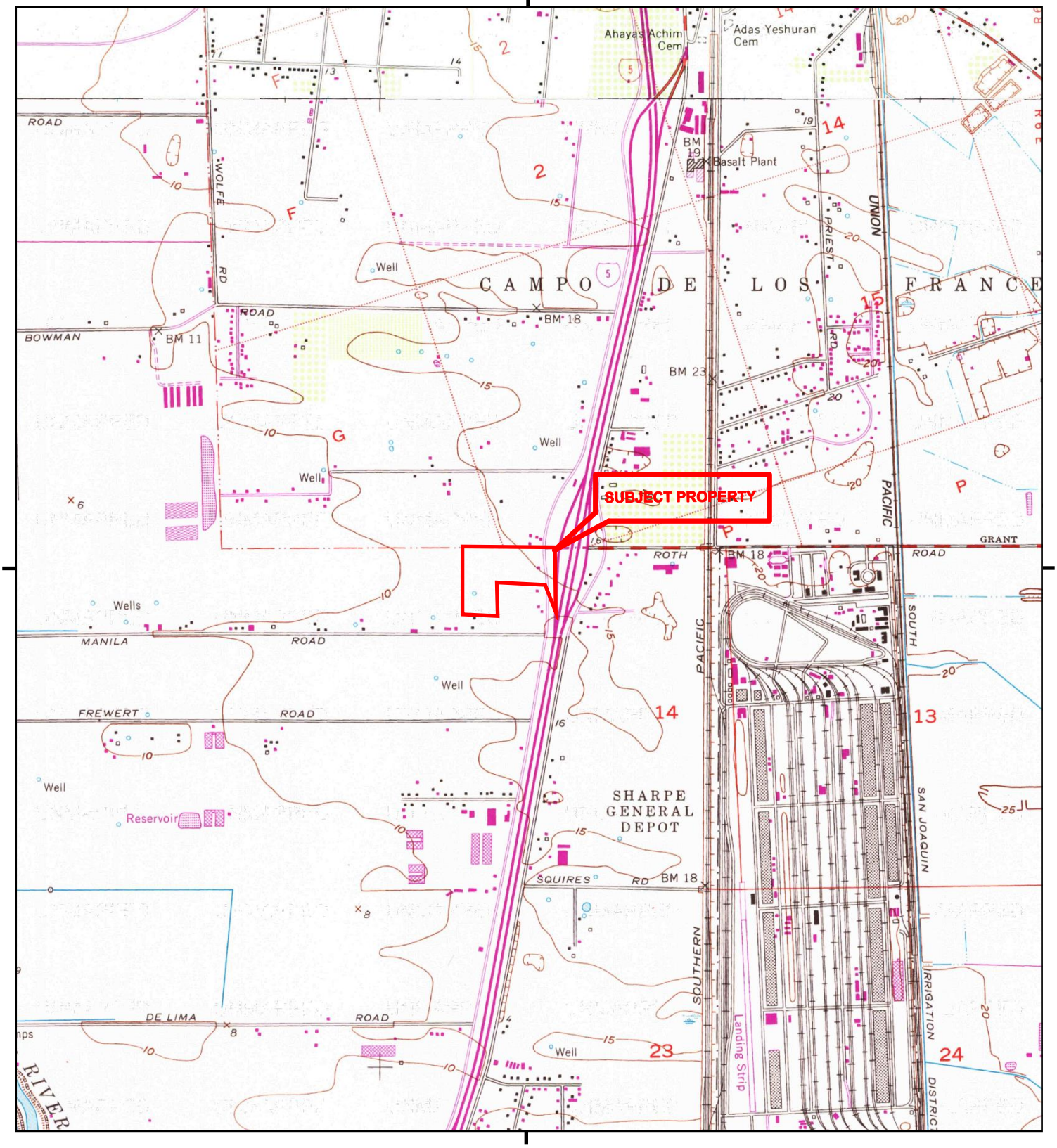
TP, Lathrop, 1994, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1987



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

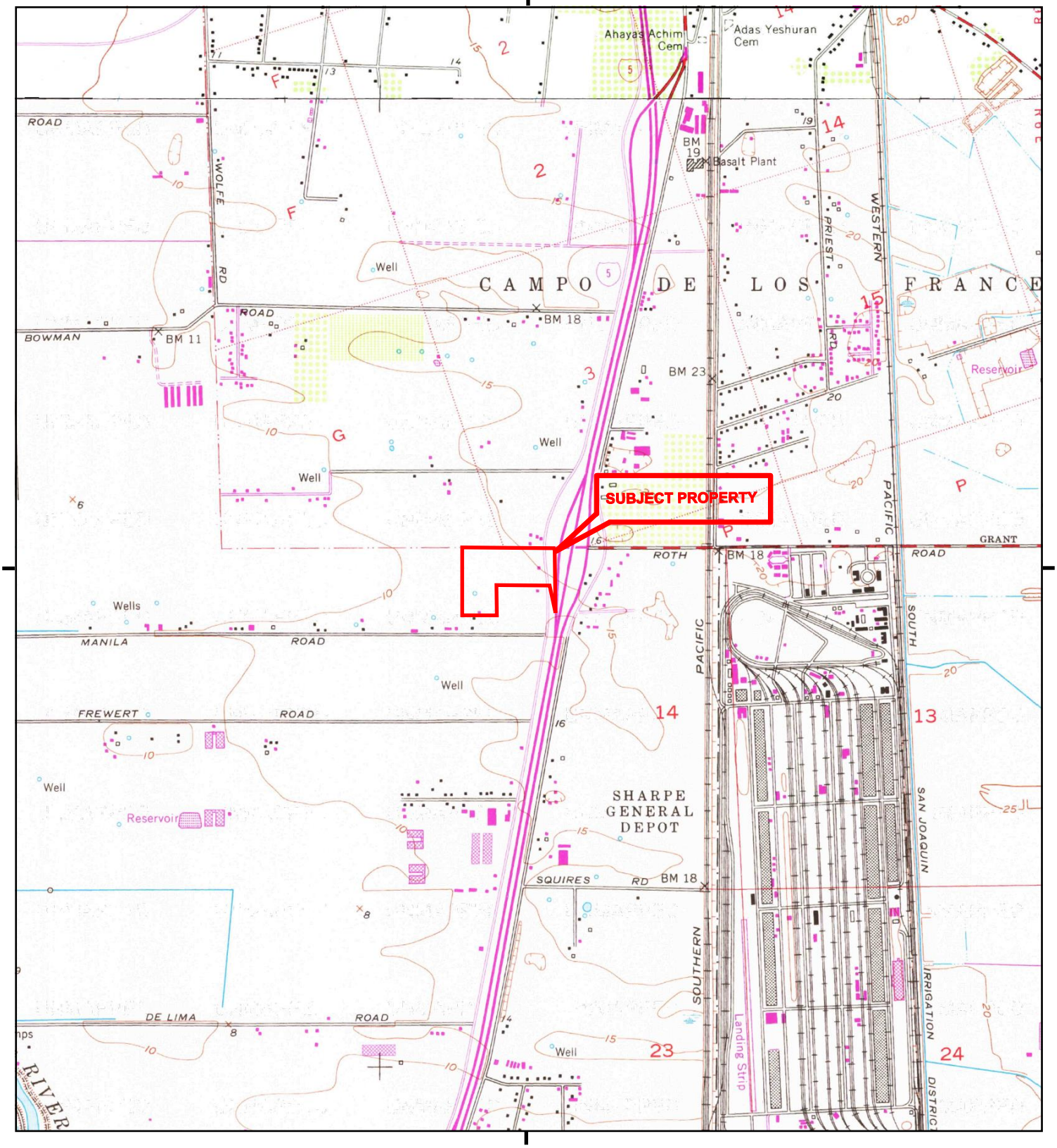
TP, Lathrop, 1987, 7.5-minute
N, Stockton West, 1987, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1976



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

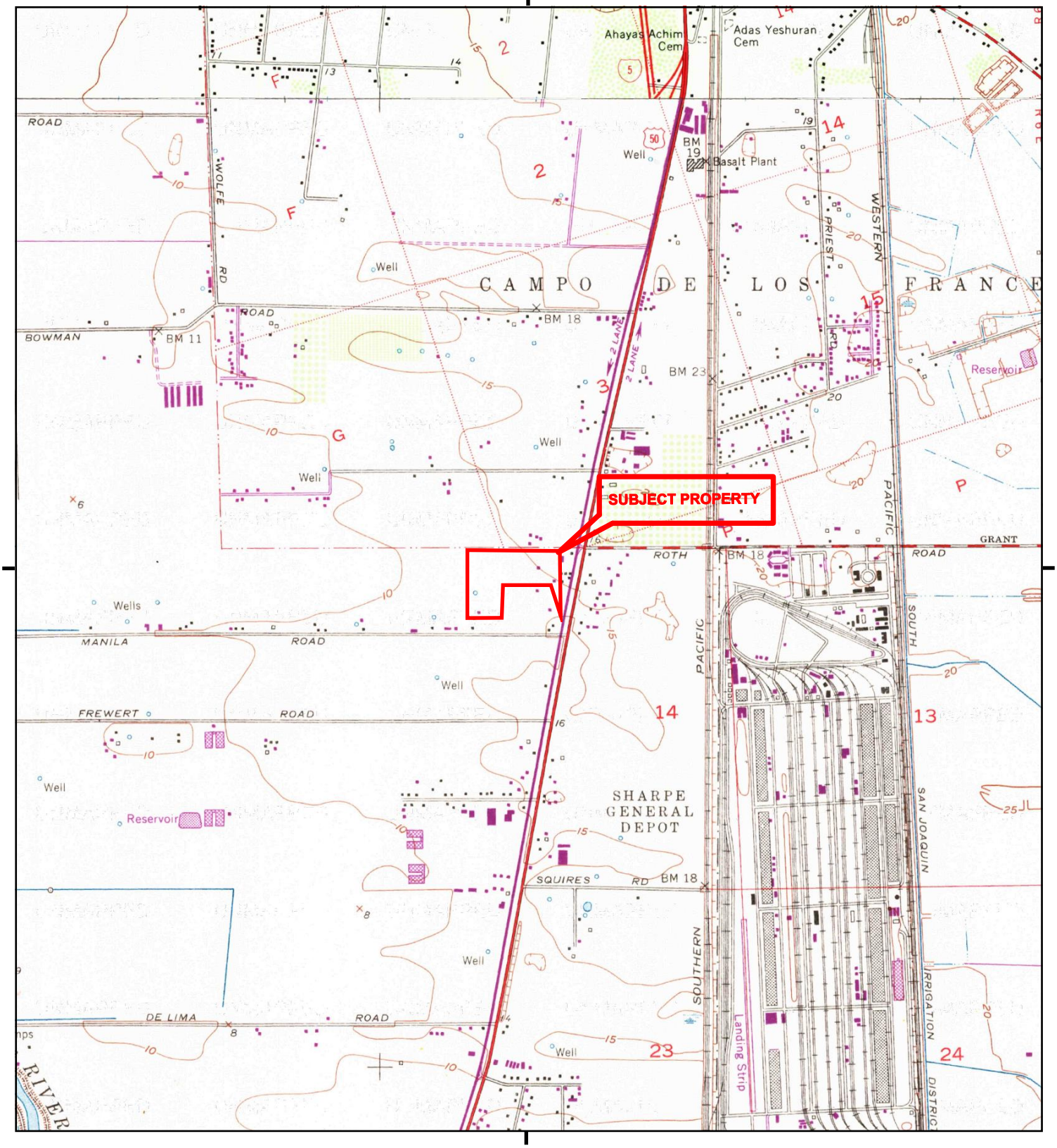
TP, Lathrop, 1976, 7.5-minute
N, Stockton West, 1976, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1968



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

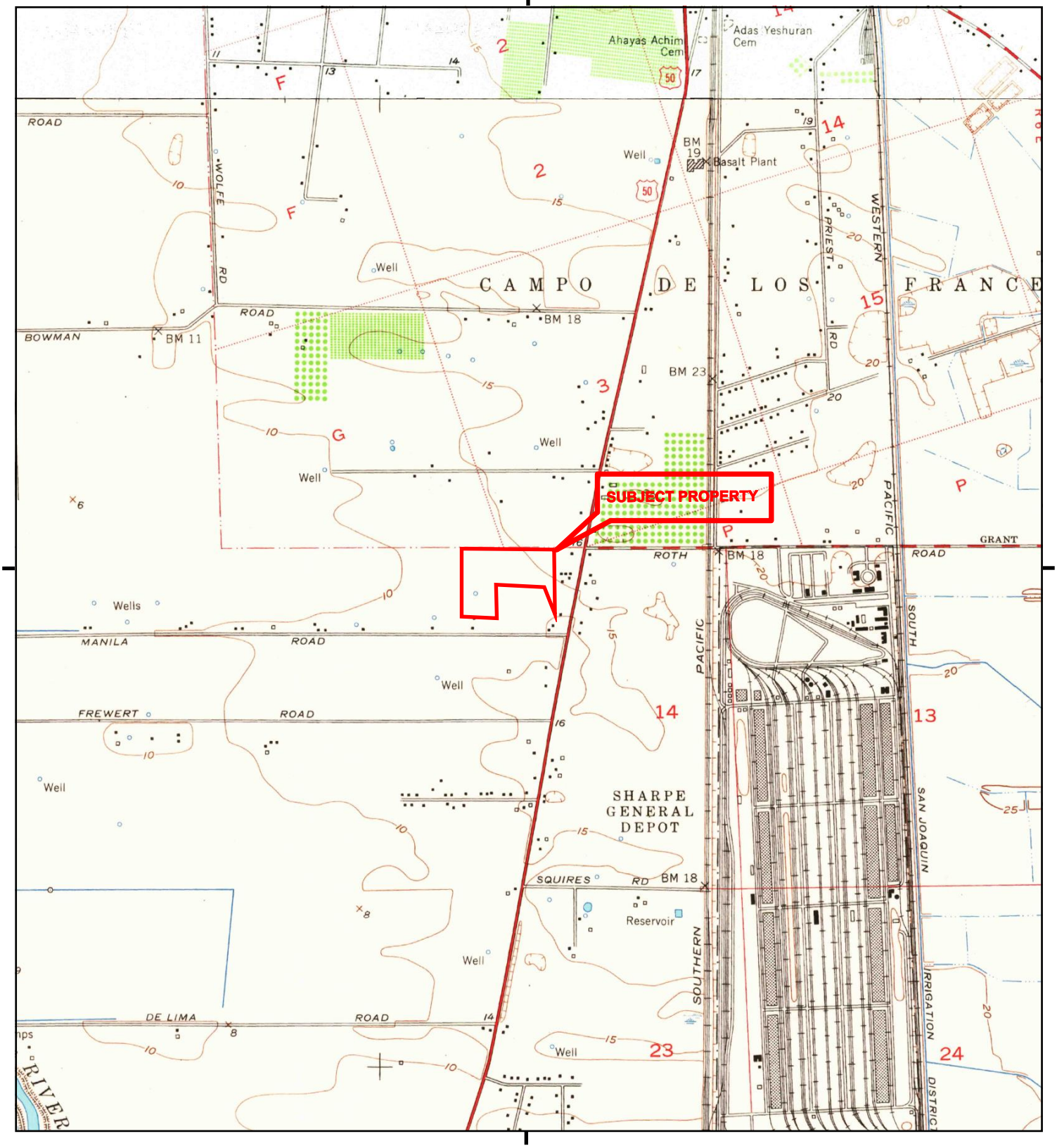
TP, Lathrop, 1968, 7.5-minute
N, Stockton West, 1968, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Historical Topo Map

1952



This report includes information from the following map sheet(s).

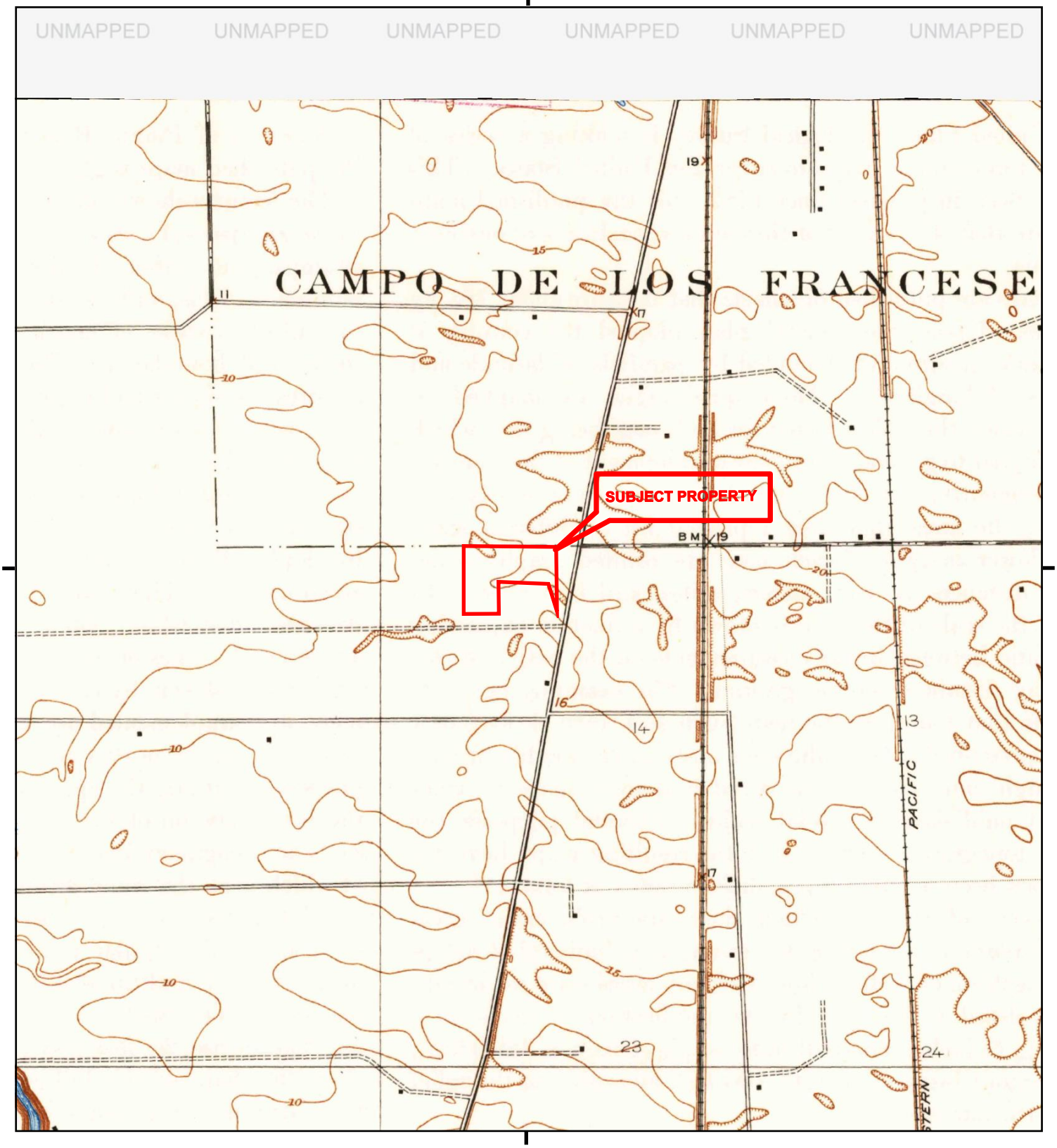
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lathrop, 1952, 7.5-minute
N, Stockton West, 1952, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lathrop, 1915, 7.5-minute

SITE NAME: Singh Petroleum and Bacay Properties
ADDRESS: 11293 S. Manthey Rd. and 169 Manila Rd.
Lathrop, CA 95330
CLIENT: AdvancedGeo, Inc.

N

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330

Inquiry Number: 7273084.5
March 10, 2023

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☐	EDR Digital Archive
2017	☑	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1985	☑	☐	Haines Criss-Cross Directory
1981	☑	☐	Haines Criss-Cross Directory
1977	☑	☐	Haines Criss-Cross Directory
1974	☑	☐	Haines Criss-Cross Directory
1968	☐	☐	Polk City Directory
	☐	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330

Year	*CD Image*	*Source*	

BRIGGS AVE

2020	pg A1	EDR Digital Archive	
2017	pg A6	Cole Information	
2014	pg A9	Cole Information	
2010	pg A12	Cole Information	
2005	pg A15	Cole Information	
2000	pg A18	Cole Information	
1995	pg A21	Cole Information	
1992	pg A23	Cole Information	
1985	pg A26	Haines Criss-Cross Directory	
1981	pg A30	Haines Criss-Cross Directory	
1977	pg A34	Haines Criss-Cross Directory	
1974	pg A37	Haines Criss-Cross Directory	
1968	-	Polk City Directory	Street not listed in Source

MANILA RD

2020	pg A2	EDR Digital Archive	
2017	pg A7	Cole Information	
2014	pg A10	Cole Information	
2010	pg A13	Cole Information	
2005	pg A16	Cole Information	
2000	pg A19	Cole Information	
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	pg A24	Cole Information	
1985	pg A27	Haines Criss-Cross Directory	
1981	pg A31	Haines Criss-Cross Directory	
1977	pg A35	Haines Criss-Cross Directory	
1974	pg A38	Haines Criss-Cross Directory	

FINDINGS

Year	CD Image	Source	
1968	-	Polk's City Directory	Street not listed in Source

S MANTHEY

2020	pg A3	EDR Digital Archive	

S MANTHEY RD

2020	pg A4	EDR Digital Archive	
2017	pg A8	Cole Information	
2014	pg A11	Cole Information	
2010	pg A14	Cole Information	
2005	pg A17	Cole Information	
2000	pg A20	Cole Information	
1995	pg A22	Cole Information	
1992	pg A25	Cole Information	
1985	pg A28	Haines Criss-Cross Directory	
1985	pg A29	Haines Criss-Cross Directory	
1981	pg A32	Haines Criss-Cross Directory	
1981	pg A33	Haines Criss-Cross Directory	
1977	pg A36	Haines Criss-Cross Directory	
1974	pg A39	Haines Criss-Cross Directory	
1974	pg A40	Haines Criss-Cross Directory	
1968	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BRIGGS AVE 2020

58	CORAZON ORIGER
	JEFFREY ORIGER
	JUST DRAINS
124	GERMAN JIMENEZ
235	FELIPE MARTINEZ
	ISABEL MARTINEZ
313	PEDRO ALDACO
499	NANCY SMITH
	WILLIAM SMITH
514	DANNY CORRALES
	ROMERO CORRALES
528	CARMEN CALIMLIM
	GLENN MAGAOAY
	JANICE MAGAOAY
	JENNA MAGAOAY
532	DAVID CORNELL
	LINDA CORNELL
533	GINA CHASTAIN
	JAMES CHASTAIN
	SAMUEL CHASTAIN
538	LYNDA YEPEZ
	RUBEN VALENCIA
	WAYNE YEPEZ
601	AILEEN GALICINAO
	DARIEN GALICINAO
	LITA GALICINAO
	LOLITA GALICINAO
689	ELIAS SANDOVAL
	SDF AUTO TRANSPORT
705	CECILIA ARGUETA
	JENNIFER ARGUETA
	MARIO ARGUETA
	MAYRA ARGUETA
718	GLORIA DOMINGO
	ROBERTO DOMINGO
732	ENRIQUE ALVA
739	ADRIANA BARRON
	ADRIANA SANCHEZ
	ROGELIO BARRON

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MANILA RD 2020

221	CARRIE GRIFFIN
	JOHN GRIFFIN
271	JANE PICAZO
275	EVANGELINE CACHERO
	JEFFREY CACHERO
	JOEL CACHERO
	VANGIE CACHERO
291	A A MARBLE SVC
	ARMANDO ARRIAGA
	FRANCISCO RUANO
	JONATHAN HERNANDEZ
	KAREN ALVAREZ
	MARIA RUANO
405	INDERJIT BASSI
483	TERRY RAMIREZ
499	ALISHA PAMINSAN
	BERONICA PAMINSAN
	CYLESS PAMINSAN
	MAXIMO PAMINSAN
	ROGELIO PAMINSAN
	ROGER PAMINSAN
603	BERNABELA TAMAYO
	JOE TAMAYO
665	JAMIE ANDERSON
	KELLY ANDERSON
673	JOYCE MCLAUGHLINN
	LINDA MACKLIN
685	MARK CRUSE
795	ANDRES BAPTISTA
	WILMA REGIDOR
803	ELIJAH JOHNSON
	MARGARET KENNY
853	BENJAMIN QUINTOA
	BRAEO DA
	JONATHAN QUINTOA
891	BEAU SHRYOCK
	JAMES SHRYOCK
	KRISTEN RODRIGUEZ
	NAOMI PALACIOS
	SHAWNIE SHRYOCK
	SHRYOCK GRADING CO
	VIRGINIA PALACIOS
979	JEFFREY PHEN
	LINDA PHEN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

S MANTHEY 2020

12565 REBECCA LANNERS
12687 CHAD HUTCHINSON
15929 GENE SEUS
15933 AIMEE MANTHEY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

S MANTHEY RD 2020

10431	CHRISTINA ACOBA
	ERNESTA ACOBA
	FRANK ACOBA
	TINA ACOBA
10465	JENNIFER ACOBA
	MATTHEW ACOBA
	ROBERT ACOBA
	TEOFANIE ACOBA
10499	MANDY SERRANO
	MICHAEL SERRANO
10549	DOUGLAS BECKWITH
	MARY BECKWITH
	SAMUEL BECKWITH
10623	WILLIAM ZAREVICH
11161	ANTONIO ALANIZ
	SAN JUANA
11401	ANDREW AQUINO
	ELISA AQUINO
	ROGER AQUINO
11471	JAMIE HERNANDEZ
	JAZMINE ROBERTSON
	TERESITA ROBERTSON
11591	ELISA AQUINO
	LOUIS AQUINO
12333	DENISE CINK
	DONALD GIGLI
	JASON VOTAW
	JOSEPH GIGLI
12423	CHERYL ONTIVEROS
	PAUL ONTIVEROS
12565	REBECCA LANNERS
	SILVER CHASE SELF STORAGE
12687	PRESTON PIPELINES INC
12715	ENTERPRISE TRUCK RENTAL
	FERRELLGAS
12933	MICHAEL PRESTON
15929	AA SIGN IMAGE INC
15933	CREATIVE OUTDOOR ENVIRONMENTS
16444	HANNA SEUS
16456	EDEN GARDEN & LANDSCAPE SUPPLY
17261	THRIVE CHURCH IN LATHROP
17600	LATHROP VETERINARY CTR-BRDNG
17605	NATIONWIDE FLEET
	TIMOTHY HENSLEY
18426	AMANDA MCMAHON
	RICHARD MCMAHON
18502	DOROTHY RUTH
	IRENE WEST
	JAMES RUTH
18570	EDWARD KNESEK

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

S MANTHEY RD 2020 (Cont'd)

18570 NINA KNESEK
18666 TERESA AGUILAR

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 2017

58	ORIGER, JEFF D
124	JIMENEZ, GERMAN M
235	SINGH, JASBIR
313	MYRNA, GISH
499	SMITH, WILLIAM H
514	CORRALES, DANILO G
528	MAGAOAY, GLENN
532	CORNELL, DAVID W
533	CHASTAIN, JAMES A
538	YEPEZ, LARRY A
601	GALICINAO, DARIEN J
666	VALLESTEROS, CION A
689	SANDOVAL, ELIAS
705	ARGUETA, MARIO E
718	DOMINGO, ROBERTO M
732	CEJA, ARCELIA
739	BARRON, ROGELIO

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 2017

221	GRIFFIN, JOHN D
275	CACHERO, VANGIE P
291	RUANO, FRANCISCO
499	PAMINSAN, ROGER C
603	TAMAYO, B T
665	ANDERSON, JAMES P
673	MACKLIN, LINDA
685	MACKLIN, LINDA M
795	REGIDOR, WILMA A
803	QUINTOA, GINA G
853	BRAGG, LUISE M
891	SHRYOCK, JAMES J
979	PHEN, JEFFREY

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 2017

10431	ACOBA, FRANK
10465	ACOBA, MATTHEW M
10499	SERRANO, MICHAEL A
10549	BECKWITH, DOUGLAS D
10623	ZAREVICH, WILLIAM G
11161	ALAREZ, SANJUANA
11163	SIMON, JUANA
11165	SUAREZ, EDUARDO
11199	SINGH, MATAB
11293	KELLY, GURDIP
11401	AQUINO, ROGER T
11471	ROBERTSON, TESSIE L
11591	AQUINO, THEODORE V
12333	SOPOLIGA, MICHELLE L
12423	MENDIOLA, SABRINA A
12565	SILVER CHASE SELF STORAGE
	UHAUL
12965	WIDMER, GEORGIANN
15929	AA SIGN IMAGE
15933	CREATIVE OUTDOOR ENVIRONMENTS INC
16444	JAQUES, THOMAS A
16456	EDEN GARDEN SUPPLY
17211	BITE & BABY
17261	THRIVE CHURCH IN
17395	CHEVRON
17600	CHRIS TRIPI DVM
	KECIA VALDEZ DVM
	LATHROP VETERINARY CENTER
17605	DELTA POWER SPORTS
	NATIONWIDE FLEET
18426	AVILA, JESUS
18666	AGUILAR, TERESA J

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 2014

58	ORIGER, JEFF D
235	GISH, JOHN E
499	SMITH, WILLIAM H
514	CORRALES, DANILO G
528	MAGAOAY, GLENN
530	OCCUPANT UNKNOWN,
532	CORNELL, DAVID W
533	CHASTAIN, JAMES R
538	YEPEZ, LARRY A
601	GALICINAO, DARIEN J
666	VALLESTEROS, CION A
689	CHHOEUM, HARRY
	PATERNO, RAMIRO
705	ARGUETA, MARIO E
718	DOMINGO, ROBERTO M
732	CEJA, ARCELIA
739	BARRON, ROGELIO

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 2014

175	OCCUPANT UNKNOWN,
221	GRIFFIN, JOHN D
266	OCCUPANT UNKNOWN,
271	PICAZO, JANE E
275	CACHERO, JEFFREY P
405	OCCUPANT UNKNOWN,
483	OCCUPANT UNKNOWN,
499	PAMINSAN, ROGER C
603	TAMAYO, B T
665	THOMSEN, KENNETH
673	MACKLIN, LINDA
685	MACKLIN, LINDA
697	MCLAUGHLIN, JOYCE A
775	BECHTHOLD, MADISON
795	REGIDOR, WILMA A
853	BRAGG, LUISE M
891	OCCUPANT UNKNOWN,
979	PHEN, JEFFREY

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 2014

10365 MUNGUIA, JOHN
10377 BOBBITT, P A
10431 ACOBA, FRANK
10465 ACOBA, MATTHEW M
10499 OCCUPANT UNKNOWN,
10523 BECKWITH, DOUGLAS D
10549 BECKWITH, DOUGLAS D
10623 ZAREVICH, WILLIAM G
10910 LUNDQUIST FOODS
11161 DIXON, JESSIE
11163 OCCUPANT UNKNOWN,
11165 OCCUPANT UNKNOWN,
11168 WEST, DONALD
11199 MIRAMONTES, ALBERT R
11293 KELLY, GURDIP
11401 AQUINO, ROGER T
11471 HERNANDEZ, JAIME G
ROBERTSON, TERESITA L
11591 AQUINO, THEODORE V
12333 MONTOYA, JEREMIAH R
12423 MENDIOLA, JASON J
12565 SILVER CHASE SELF STORAGE
12965 WIDMER, GEORGIANN
15791 COTTON, SHARON M
15929 AA SIGN IMAGE
15933 CREATIVE OUTDOOR ENVIRONMENTS INC
OCCUPANT UNKNOWN,
16351 SANDOVAL, FRANCES
16444 OCCUPANT UNKNOWN,
16456 CLASSY GRASS TURF
EDEN GARDEN & LANDSCAPE SUPPLY
17395 CHEVRON
17600 LATHROP VETERINARY CENTER
TRIPI CHRIS DVM
VALDEZ KECIA DVM
17601 MAILLOT, FREDRICK
17605 DELTA POWER SPORTS
NATIONWIDE FLEET
18426 AVILA, JESUS
18502 RUTH, JAMES A
18570 KNESEK, EDWARD W
18666 CARAVALHO, DANIEL

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 2010

58	ORIGER, JEFFREY D
124	OCCUPANT UNKNOWN,
235	GISH, JOY
313	SMITH, VINA
499	SMITH, NANCY M
514	CORRALES, ELSA T
528	MAGAOAY, GLENN
530	OCCUPANT UNKNOWN,
532	OCCUPANT UNKNOWN,
533	CHASTAIN, SAMUEL L
538	YEPEZ, LYNDA S
554	YEPEZ, LARRY A
601	GALICINAO, J
666	VALLESTEROS, CION A
689	CHHOEUM, HARRY
	LATHROP NURSERY
705	OCCUPANT UNKNOWN,
	PMS GENERAL CONTRACTORS
718	DOMINGO, ROBERTO M
732	ARELLANO, MARINA
739	ESPARZA, RAMON C

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 2010

175	ALVA, CARLITO
221	GRIFFIN, JOHN D
266	OCCUPANT UNKNOWN,
271	PICAZO, JANE E
275	CACHERO, JOEL P
291	ARRIAGA, ARMANDO A
405	JOHNSON ELECTRIC
	JOHNSON, JOHN T
483	OCCUPANT UNKNOWN,
491	PAMINSAN, MAX
499	NUNEZ, L
603	TAMAYO, B T
665	JONES, JAMES
673	MACKLIN, LINDA
685	OCCUPANT UNKNOWN,
697	MCLAUGHLIN, JOYCE A
775	BECHTHOLD, LUDWIG
795	REGIDOR, WILMA A
803	GARCIA, ANTHONY
853	BRAGG, LUISE M
891	OCCUPANT UNKNOWN,
	SHRYOCK, JAMES J
979	OCCUPANT UNKNOWN,
1481	WILLOW LAKE FARMS

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 2010

10365	MUNGUIA, JOHN
10377	BOBBITT, P A
10431	ACOBA, CHRISTINA H
10465	OCCUPANT UNKNOWN,
10499	APOSTOL, ROMERO V
10523	BECKWITH, DOUGLAS D
10549	BECKWITH, DOUGLAS D
10623	ZAREVICH, WILLIAM G
11161	ALANIZ, ANTONIO R
11163	OJEDA, IRENE
11165	DIAZ, DAYCY
11168	WEST, DONALD
11199	OCCUPANT UNKNOWN,
11293	KELLEY, KANWAR S
11471	ROBERTSON, TESSIE L
11591	AQUINO, TEDDY V
12333	GIGLIS HAY CO
12423	GRANATO, STEPHANIE D
12565	BUDGET TRUCK RENTAL
	SILVER CHASE SELF STORAGE
12715	BLUE RHINO
12833	NATIONAL RENT A FENCE
	PRESTON PIPELINES INC
12965	WIDMER, ALICE J
15791	COTTON, MAURICE
15933	CREATIVE OUTDOOR ENVIRONMENTS
	PEREZ, FELIPE
16444	OCCUPANT UNKNOWN,
16456	EDEN GARDEN & LANDSCAPE SUPPLY
17201	BIG DANS NEIGHBORHOOD DINNER
17601	MAILLOT, FREDRICK
17605	DELTA POWERSPORTS INC
17772	LORA, GLORIA
18019	MONTGOMERY, SCOTT E
18426	AVILA, JESUS
18502	LUCKEY, CATHIE A
18570	GARY, GOLDEN
18666	CARAVALHO, DANIEL

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 2005

58	ORIGER, JEFFREY D
124	OCCUPANT UNKNOWN,
235	BAUM, LUANN
270	SMITH NURSERY
313	SMITH, VINA
499	SMITH, NANCY M
514	CORRALES, ROMERO
530	OCCUPANT UNKNOWN,
532	OCCUPANT UNKNOWN,
533	CHASTAIN, SAM L
538	YEPEZ, LARRY
554	OCCUPANT UNKNOWN,
601	GALICINAO, SAM V
666	OCCUPANT UNKNOWN,
689	RIVERA, EDWARD A
705	PMS
	PROPERTY MAINTENANCE SERVICE
	WEST, JERRY J
718	AVILA, GLORIA A
732	OCCUPANT UNKNOWN,
739	ESPARZA, RAMON C

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 2005

175	OCCUPANT UNKNOWN,
211	OCCUPANT UNKNOWN,
221	GRIFFIN, JOHN D
266	OCCUPANT UNKNOWN,
271	PICAZO, JANE E
275	CACHERO, FRED
291	ARRIAGA, ARMANDO A
405	JOHNSON, JOHN T
483	RAMIREZ, JESUS J
491	OCCUPANT UNKNOWN,
499	NUNEZ, L
603	TAMAYO, JOE T
665	JONES, JAMES
697	MCLAUGHLIN, JOYCE A
775	BECHTHOLD, LUDWIG
795	BAPTISTA, ANDRES T
803	GARCIA, ANTHONY
853	BRAGG, LUISE M
891	OCCUPANT UNKNOWN,
979	CRUSE, MARK L
1481	WILLOW LAKE FARMS

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 2005

10365 JOHNSON, JOSHUA E
10377 BOBBITT, P A
10431 ACOBA, CHRISTINA H
10465 OCCUPANT UNKNOWN,
10499 APOSTOL, ROMERO V
10523 BECKWITH, DOUGLAS D
10549 OCCUPANT UNKNOWN,
10623 OCCUPANT UNKNOWN,
10910 LUNDQUIST FOODS
LUNDQUIST GOURMET DOG FOOD
11161 DIXON, JESSIE
11163 OCCUPANT UNKNOWN,
11165 LOPEZ, MIKE
11168 WEST, DONALD
11199 BEARD, WILLIAM C
11293 KELLEY, KANWARJIT S
11401 OCCUPANT UNKNOWN,
11471 OCCUPANT UNKNOWN,
11591 AQUINO, GERRY P
12333 ERICKSON, BROOKE M
GIGLIS HAY CO
12965 ADAMS, GREG
15791 COTTON, MAURICE
15933 AIRRINGTON, CHERYL L
16444 OCCUPANT UNKNOWN,
16456 EDEN GARDEN & LANDSCAPE SUPPLY
17287 LOURDES, MARIA
17599 OCCUPANT UNKNOWN,
17601 MAILLOT, FREDRICK
17772 LORA, GLORIA
18007 RANCHEY, AJAY
18019 OCCUPANT UNKNOWN,
18041 OCCUPANT UNKNOWN,
18263 OCCUPANT UNKNOWN,
18426 AVILA, JESUS
18502 LUCKEY, CATHIE A
18666 CARAVALHO, DANIEL

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 2000

739 GAMACHO, JUAN

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 2000

891 SHRYOCK, JAMES J
1481 WILLOW LAKE FARMS

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 2000

10910	LUNDQUIST FOODS
11161	DIXON, JESSIE
11293	CHASTIAN, GINA M
11471	HERNANDEZ, JAIME G
12333	GOEDE, DAMIAN
12565	C & G EGGS DISTRIBUTORS
	CREAM OF THE VALLEY INCORPORATED
	K & D ORIENTAL AMERICA PROCUCE INCORPORATED
12965	WIDMER, JOS
17287	OSBORN, DONNA J
18043	ROY, ERIC
18426	AVILA, JESUS
18666	CARAVALHO, DANIEL
	CONNORS, PHILLIP J

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 1995

270	SMITH NURSERY
532	GARCIA, KATHY
666	VALLESTEROS, REGINO
689	RIVERA, EDDIE
732	WEST, MOLLY

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 1995

10623	ZAREVICH, MICHAEL
11161	DIXON, JESSIE
11199	BEARD, BILL
15225	HENLEY, SUSAN
17601	MEAD, CYNTHIA
18019	MACKAY, ROSE
18041	MARTIN, LEO
18043	SHARP, BONNIE
18426	AVILA, JESUS
18502	CUNNINGHAM, PEGGY
18570	SAUNDERS, DENNIS W
18666	CARAVALHO, DANIEL

Target Street	Cross Street	Source
✓	-	Cole Information

BRIGGS AVE 1992

270 SMITH NURSERY

Target Street	Cross Street	Source
✓	-	Cole Information

MANILA RD 1992

405 JOHNSON ELECTRIC
1481 WILLOW LAKE FARMS

Target Street	Cross Street	Source
✓	-	Cole Information

S MANTHEY RD 1992

10910	LUNDQUIST FOODS
11161	DIXON, JESSIE
12565	CREAM OF THE VALLEY HAYRES EGG PRDCR
18426	AVILA, JESUS
18570	SAUNDERS, DENNIS W
18666	CARAVALHO, DANIEL

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

BRIGGS AVE 1985

BRIGGS AV W 95330
LATHROP

58	GRANLUND ALLAN	982-4312	+5
124	XXXX	00	
231	VAUGHN C J	982-1277	+5
235	PETERS BYRON	982-1447	
270	SMITH JOHN E	902-0234	
	SMITH NURSERY	982-1276	
295	XXXX	00	
313	XXXX	00	
499	SMITH WM H	982-0623	
514	CORRALES MAC	982-1665	
528	MAGAOAY ALFRED	982-0803	
	MAGAOAY GLENN	982-4185	6
530	XXXX	00	
532	GALACINAO FRANK	982-1417	
533	CHASTAIN SAM	982-1093	0
538	XXXX	00	
554	XXXX	00	
601	XXXX	00	
666	VALLESTEROS REGINO	982-1521	
689	RIVERA EDDIE A	982-1290	
705	LAWSON JAS	982-0319	1
718	BONZO CECIL	982-1737	
732	XXXX	00	
*	1 BUS 22 RES	2 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MANILA RD 1985

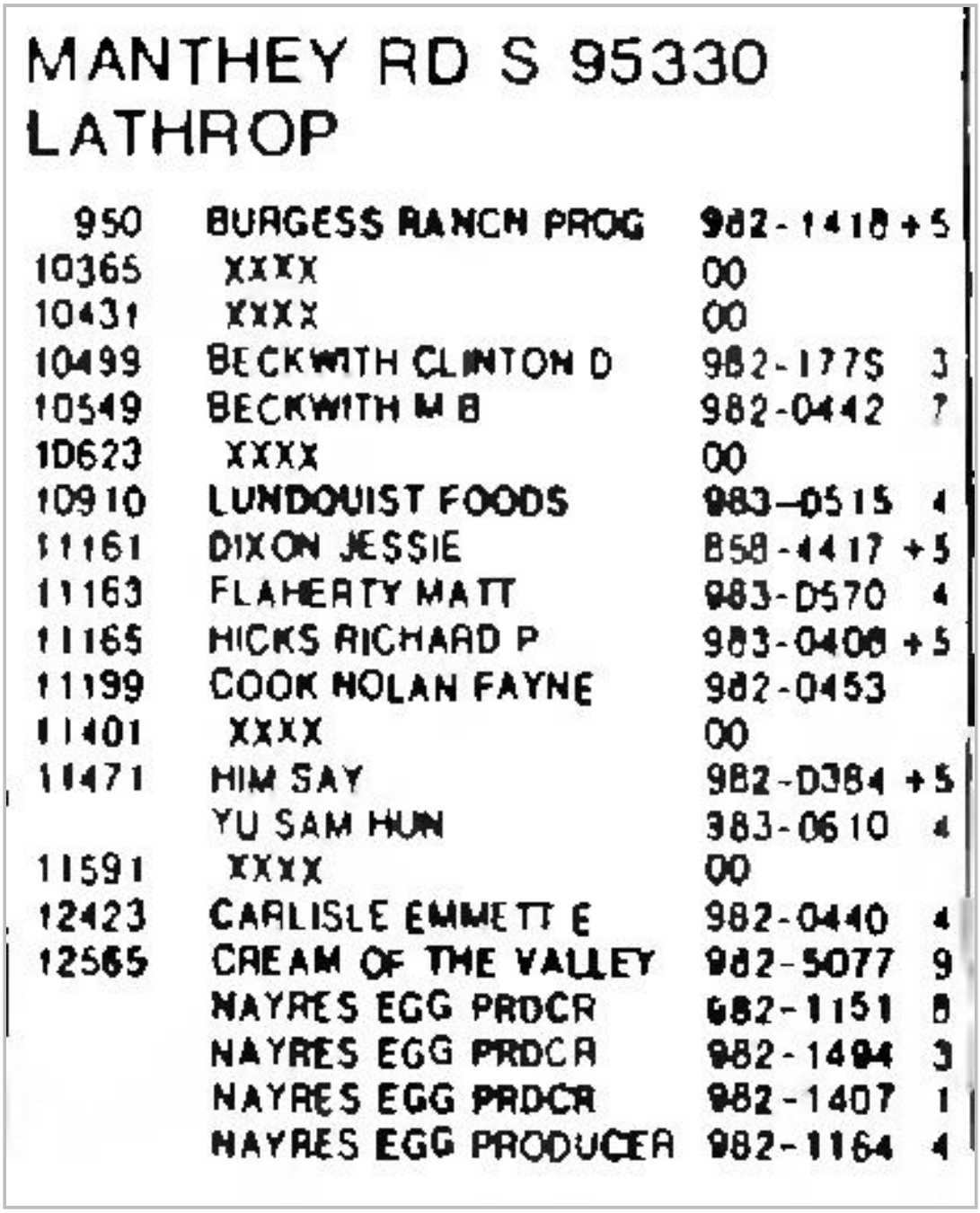
MANILA RD 95330
LATHROP

169	XXXX	00
175	XXXX	00
211	CORRALES IGNACIO	982-1869
221	CORRALES L	982-0884
266	MOISES ROD G	983-0391 +5
275	XXXX	00
291	MOISES T C	982-1305
405	JOHNSON JOHN T	982-0189
483	RAMIREZ JOHN C	982-0769
491	PAMINSAN MAX	982-1585
591	XXXX	00
603	TAMAYO JOE	982-4619
657	XXXX	00
665	XXXX	00
795	XXXX	00

* 0 BUS 15 RES 1 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1985



MANTHEY RD S 95330
LATHROP

950	BURGESS RANCH PROG	982-1418	+5
10365	XXXX	00	
10431	XXXX	00	
10499	BECKWITH CLINTON D	982-1775	3
10549	BECKWITH M B	982-0442	7
10623	XXXX	00	
10910	LUNDQUIST FOODS	983-0515	4
11161	DIXON JESSIE	858-4417	+5
11163	FLAHERTY MATT	983-0570	4
11165	HICKS RICHARD P	983-0408	+5
11199	COOK NOLAN FAYNE	982-0453	
11401	XXXX	00	
11471	HIM SAY	982-0384	+5
	YU SAM HUN	383-0610	4
11591	XXXX	00	
12423	CARLISLE EMMETT E	982-0440	4
12565	CREAM OF THE VALLEY	982-5077	9
	NAYRES EGG PRDCR	982-1151	8
	NAYRES EGG PRDCR	982-1494	3
	NAYRES EGG PRDCR	982-1407	1
	NAYRES EGG PRODUCER	982-1164	4

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1985

MANTHEY RD S		95330 CONT	
12[illegible]2	WIDMER JOS	982-1517	3
1525	XXXX	00	
15791	XXXX	00	
15933	PHILLIPS WM JR	982-1675	3
16444	XXXX	00	
17601	RATTO VERNON	982-0389	3
18041	MCCALL BETTY	982-0746	+S
16043	PERRY ALLEN	982-0445	0
	PERRY J	982-4305	2
	PERRY JACK TAYLORMY	982-1647	4
18263	VALLENTYNE DON	962-5794	2
18426	AVILA JESUS	856-2742	2
	KING WILLIE A	982-0174	2
18502	MOLLESON RICHARD	982-0424	2
18570	SAUNDERS DENNIS W	858-2258	2
18686	CARAVALHO DANIEL	856-4470	2
	CARAVALHO DANL	582-4178	+S
*	8 BUS 30 RES	6 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

BRIGGS AVE 1981

BRIGGS AV W 95330
LATHROP

58	GALAPON DENNIS	982-4589	6
124	XXXX	00	
231	PONTIUS LARRY	982-4543	0
235	PETERS BYRON	982-1447	
270	SMITH JOHN E	982-0234	
	SMITH NURSERY	982-1276	
295	XXXX	00	
313	XXXX	00	
499	SMITH WM H	982-0623	4
514	CORRALES MAC	982-1665	
528	MAGAOAY ALFRED	982-0803	
	MAGAOAY GLENN	982-4185	8
530	XXXX	00	
532	GALACINAO FRANK	982-1417	
533	CHASTAIN SAM	982-1093	0
538	XXXX	00	
554	XXXX	00	
601	XXXX	00	
666	VALLESTEROS REGINO	982-1521	
689	RIVERA EDDIE A	982-1290	
705	LAWSON JAS	982-0319	+1
718	BONZO CECIL	982-1737	
732	XXXX	00	
★	1 BUS 22 RES	1 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MANILA RD 1981

MANILA RD W 95330
LATHROP

169	XXXX	00	
175	XXXX	00	
211	CORRALES IGNACIO	982-1869	
221	CORRALES L	982-0884	4
266	MOISES EODIE	982-0455	
275	XXXX	00	
291	MOISES T C	982-1305	
405	JOHNSON JOHN T	982-0189	4
483	RAMIREZ JOHN C	982-0769	5
491	PAMINSAN MAX	982-1585	
591	XXXX	00	
603	TAMAYO JOE	982-4619	
657	XXXX	00	
665	XXXX	00	
795	XXXX	00	

★ 0 BUS 15 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1981

MANTHEY RD S 95330
LATHROP

10365	XXXX	00	
10431	XXXX	00	
10499	BECKWITH CLINTON D	982-1775	3
10549	BECKWITH M B	982-0442	7
10623	XXXX	00	
11161	BOONE B G	982-1357	3
11165	XXXX	00	
11199	COOK NOLAN FAYNE	982-0453	4
11401	RUATOS MAGDALENA	982-1027	+1
11471	COLOMA ALFREDO	982-5347	+1
11591	XXXX	00	
12423	CARLISLE EMMETT E	982-0440	9
12565	CREAM OF THE VALLEY	982-5077	9
	HAYRES EGG PRDCR	982-1151	8
	HAYRES EGG PRDCR	982-1494	3

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1981

MANTHEY RD S		95330 CONT
	HAYRES EGC PRDCR	982-1487 +1
12965	WIDMER JOS	982-1517 3
15225	PRATLE E M	982-0870 3
15791	XXXX	00
15933	PHILLIPS WM JR	982-1675 3
16444	EDWARDS RON	982-5336 9
17601	RATTO VERNON	982-0389 3
13041	MCCALL BETTY	982-0746 4
	MCCALL JUNE	858-4210 9
18043	PERRY ALLEN	982-0445 0
	PERRY J	982-1647 8
18263	VALLENTYNES RANCH	982-5391 5
18426	XXXX	00
18502	XXXX	00
18666	CARAVALHO DANL	982-0852 +1
	■ 5 BUS 25 RES	4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

BRIGGS AVE 1977

BRIGGS AV W 95330 LATHROP

58	GALAPON DENNIS	982-4589	6
124	YOUNG THOS A	982-4965	4
235	HART VERNON	982-5046	5
	PETERS BYRON	982-1447	
270	SMITH JOHN E	982-0234	
	*SMITH NURSERY	982-1276	
295	XXXX	OO	
313	SMITH VINA	982-0848	
499	SMITH WM H	982-0623	4
514	CORRALES MAC	982-1665	
528	MAGADAY ALFRED	982-0803	
530	XXXX	OO	
532	GALACINAO FRANK	982-1417	
538	LUCKY LYDA C	982-1014	2
554	XXXX	OO	
601	GALICINAO SAM	982-1398	
666	VALLESTEROS REGINO	982-1521	
689	RIVERA EDDIE A	982-1290	
705	XXXX	OO	
718	BONZO CECIL	982-1737	
732	XXXX	OO	

* 1 BUS 20 RES 0 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MANILA RD 1977

MANILA RD W 95330 LATHROP

169	XXXX	00
175	XXXX	00
211	CORRALES IGNACIO	982-1869
221	CORRALES L	982-0884 4
266	MOISES EDDIE	982-0455
275	XXXX	00
291	MOISES T C	982-1305
405	JOHNSON JOHN T	982-0189 4
483	RAMIREZ JOHN C	982-0769 5
491	PAMINSAN MAX	982-1585
591	XXXX	00
603	TAMAYO JOE	982-4619
657	XXXX	00
665	PAZ R	982-0139 6
775	JUNQUEIRO A	982-4768 5
795	HENSLEY WM J	982-5689+7
803	XXXX	00
853	LANE CLEO	982-0748
	LANE J B	982-0748
891	ASPIRAS TED	982-0318 4

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1977

MANTHEY RD S 95330 LATHROP

10365	HYLTON THERON	982-0272+7
10431	ACOBA VICENTE	982-1684 3
10499	BECKWITH CLINTON D	982-1775 3
10549	BECKWITH M B	982-0442+7
11161	BOONE B G	982-1357 3
11165	XXXX	00
11199	COOK NOLAN FAYNE	982-0453 4
11401	AQUINO TEDDY V	982-1344 3
	MENOR DOMINGA	982-1782+7
11471	RUATOS RENATO A	982-1179+7
11591	XXXX	00
12333	XXXX	00
12565	*HAYRES EGG PRDCR	982-1155 3
	*HAYRES EGG PRDCR RM	982-1407 3
	*HAYRES EGG PRDCR SH	982-1494 3
12965	WIDMER JOS	982-1517 3
15225	PIRTLE E M	982-0670 3
15791	XXXX	00
15933	PHILLIPS WM JR	982-1675 3
17287	XXXX	00
17601	RATTO VERNON	982-0389 3
18041	MCCALL BETTY	982-0746 4
18043	CALORI ANDREW	982-0269 3
18263	VALLENTYNE DON	982-5381 5

* 3 BUS 21 RES 4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

BRIGGS AVE 1974

BRIGGS AV W 95330 LATHROP

58	*CASTLE MAINTENCE SV	982-1149	
124	YOUNG THOS A	982-4965	+4
235	PETERS BYRON	982-1447	
270	SMITH JOHN E	982-0234	
	*SMITH NURSERY	982-1276	
295	XXXX	00	
313	SMITH VINA	982-0848	
499	SMITH WM H	982-0623	+4
514	CORRALES MAC	982-1665	
528	MAGAOAY ALFRED	982-0803	
530	GALAPON JOSE	982-0553	
532	GALACINAO FRANK	982-1417	
538	LUCKY LYDA C	982-1014	2
554	GALIZA FRED S	982-1095	
601	GALICINAO SAM	982-1398	
666	VALLESTEROS REGINO	982-1521	
689	RIVERA EDDIE A	982-1290	
705	ACIERTO BERNABE	982-4737	3
	GASMEN MAX	982-1418	3
718	BONZO CECIL	982-1737	
732	ANCHETA ERENIO	982-5136	+4
	* 2 BUS 19 RES	3 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MANILA RD 1974

MANILA RD W 95330 LATHROP

169	AQUINO CARIDAD	982-1572 3
175	LAROSA M	982-1753
211	CORRALES IGNACIO	982-1869
221	CORRALES L	982-0884+4
266	MOISES EDDIE	982-0455
275	MOISES EUFRACIO	982-0827 3
291	MOISES T C	982-1305
405	JOHNSON JOHN T	982-0189+4
491	PAMINSAN MAX	982-1585
591	XXXX	00
603	TAMAYO JOE	982-4619
657	MAGAOAY LORENZO	982-1963
795	HOUSE CLEO JR	982-1942 3
803	LANE LARRY	982-5704+4
853	LANE CLEO	982-0748
	LANE J B	982-0748
891	ASPIRAS TED	982-0318+4
1021	SILVEIRA DON	982-4239
1691	XXXX	00

* 0 BUS 19 RES 4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1974

MANTHEY RD S 95330 LATHROP

10431	ACOBA VICENTE	982-1684	3
10499	BECKWITH CLINTON D	982-1775	3
10549	BECKWITH MILLIE MRS	982-0442	3
11161	BOONE B G	982-1357	3
11165	KATSHEN ED	982-1293	3
11199	COOK NOLAN FAYNE	982-0453	+4
11401	AQUINO TEDOY V	982-1344	3
	JIMINEZ PACITA P	982-5194	+4
	RUATOS RENATO A	982-1179	+4
11591	GUILLERMO ELPIDIO	982-1037	3
	GUILLERMO SIMEON	982-0450	3
12333	MIRANDE ALFRED	982-0523	3
12565	*HAYRE EGG PRDCR MLL	982-1151	3
	*HAYRE EGG PRDCR OFC	982-1155	3
	*HAYRES EGG PRDCR RM	982-1407	3
	*HAYRES EGG PRDCR SH	982-1494	3
12965	WIDMER JOS	982-1517	3
15225	PIRTLE E M	982-0670	3
15791	COTTON MAURICE	982-0577	3

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

S MANTHEY RD 1974

..MANTHEY RD S 95330 CONT..

15933	PHILLIPS WM JR	982-1675 3
17601	RATTO VERNON	982-0389 3
18041	MCCALL BETTY	982-0746+4
18043	CALORI ANDREW	982-0269 3
18263	GARDELLA G	982-0310+4
NO	#*HAYRE E DENNIS	982-0887 3
NO	#*HAYRES EGG FARMS	982-0887 3

* 6 BUS 20 RES 5 NEW

BUILDING RECORDS

Community Development Department

At this site, anyone may research Building permit records dating back to 1992, Planning activities to 2019, Code Enforcement to 2010, and Business Licenses to 2000.

191-250-14 | Permit/En/Bl Activites | SEARCH

Total Results: **3** Pages: 1

EN-2100344 Addresses 11293 S MANTHEY RD, LATHROP Enforcement Status OPN/NOCV

Description
Grading without permit; Demo of house without demo permit; Outside storage of junk / trash

Type	ENFORCE: Enforcement Activity
Sub Type	ENFORCE: Enforcement
Addresses	11293 S MANTHEY RD, LATHROP
Parcels	19125014
Status	OPN/NOCV
Valuation	$ 0.00

Dates	
Initialized	11/04/2021
First Notice Sent	11/04/2021
Final Notice Sent	02/09/2022

BP-1601087 Addresses 11293 S MANTHEY RD, LATHROP Addition Remodel Status WITHDRWN

Description
REPAIR FIRE DAMAGED SFR (PER IN-1500021) REBUILD ROOF WITH NEW TRUSSES, REBUILD DEN & ATTACHED GARAGE ***WITHDRAWN PER CONTRACTOR REQUEST***

Type	BLDRES: Residential Permit
Sub Type	ADDN/REM: Addition Remodel
Addresses	11293 S MANTHEY RD, LATHROP
Parcels	19125014
Status	WITHDRWN
Valuation	$ 210999.80

People	
Applicant	K12 ARCHITECTS, INC

Dates	
Initialized	03/30/2016
Issued	10/20/2016
To Expire	04/18/2017
Last Inspection	

CHECK OR REQUEST INSPECTIONS

Fees	
Fees	$ 3662.34
Paid	$ 3662.34
Balance	$ 0.00

EN-1000149 Addresses 11293 S MANTHEY RD, LATHROP Enforcement Status CLOSED

Description
truck parking and repair in C-FS zone (prohibited)

Type	ENFORCE: Enforcement Activity
Sub Type	ENFORCE: Enforcement
Addresses	11293 S MANTHEY RD, LATHROP
Parcels	19125014
Status	CLOSED
Valuation	$ 0.00

Dates	
Initialized	04/21/2010
First Notice Sent	
Final Notice Sent	

Total Results: **3** Pages: 1

ASSESSOR'S OFFICE RECORDS

RESIDENTIAL BUILDING RECORD

Assessor's Office, San Joaquin County
Stockton, California

Sheet	of	Code	Map Book	Pg.
		102-44	C18-29	

Subdivision: 191-250-~~08~~ 14

Owner: BALANTAC M.T. & C. Street No.: 11293 S. HIWAY 50

Sec.	Blk.	Twp.	Lot	Range	Arb. or Par.	Acs.
14		15		6E	9	10 .72

Appraiser: # 50435

CLASS AND SHAPE
D-6-5=C

ARCHITECTURE: MODERN
1 Stories

USE TYPE: X Single; Double; Duplex; Apartment; Flat; Court; Motel; Cabin; Units

CONSTRUCTION
Light; Sub-Standard; X Standard; Above Standard; Special

FOUNDATION: X Concrete; X Reinforced; Brick; Wood; Piers; Light | Heavy

STRUCTURAL
X Frame 2 x 4 x 16; O Sheathing; B.&B. | T.&G.; Brick; Conc. Brick; X Sub Floor 2"; X Joist 4 x 6 x 48

ROOF: Flat; Gable; X Hip; Shed; Cut Up; Pitch; Dormers; X Gutters; X 18" CEIL. OVER

EXTERIOR
X Stucco on B.B.; Siding; Asbestos Shingle; Shingles | Shakes; B.&B. | T.&G.; X Brick | Stone — 4 FT. BR. TRIM FRONT & 2 SIDES; Shingles | X Shakes — TREO; Tile | Tile T'm; Composition; Compo. Shingle

WINDOWS
D.H. | X Casem't; Steel Sash ALUM; X Screens

PLUMBING: P. | M. | X G.; Fixtures; X Water Heater; X Automatic 40 GAL.; Gas | X Electric; Wash Trays

LIGHTING
WIRING: K.T. | Conduit; B.X. | X Cable

FIXTURES: Few | Cheap; X Avg. | X Medium; Many | Special

COOLING: Blower ✓; Refrigeration; X Insulated Ceilings; X Insulated Walls

HEATING
X Fireplace 500; Floor Furnace; Partition Furnace; Panel Heater

CABINET HEATER: Gas | Oil | Wood

Zone Unit No. Runs; Gravity; A Forced; Central Unit No. Runs; Gravity; Forced; M.B.T.U.; ELEC. HEC. 3 TON

ROOM AND FINISH DETAIL

ROOMS	Floors B	1	2	Floor Finish Material	Grade	TRIM	Walls	Ceilings
All				PART B			SR	SR
Ent. Hall		1						
Living		1		CARPET	A			
Dining		1		CARPET	A			
Dinette								
Bed		2		CARPET	A			
Bed								
Den								
Br. Nook								
Ser. Porch		1		C. LINO	A			
Kitchen		1		C. LINO	A			

Drain Bd. Material: FORMICA Lgth: 12 Ft. Splash: FORMICA

CONSTRUCTION RECORD / NORMAL % GOOD / RATING (E, G, A, F, P)

Permit No.	For	Amount	Date	Effec. Year	Appr. Year	Age	Remain'g Life	Table	%	Cond.	Arch. Attr.	Func. Plan	Con-form.	Cup'd	Closet	Work-'nship
60785	RES.	15917	3-20-68		1969			~~R60~~	~~100~~	~~G~~	~~A~~	~~A~~	~~A~~	~~A~~	~~A~~	~~A~~
BP				1969	1971	2	58	R60	98	G	A	A	A	A	A	A
				1959	1970	11	39	R50	83							

BATH DETAIL

Fl.	No.	Finish Floors	Walls	Wc.	La.	Tub.	Type	Grade	St.	O.T.	G.D.	Finish
1	1	C. LINO	SR	1	1	1	COL	G		1	1	FORMICA
1	2	C. LINO	SR	1	1		COL	G	1		1	FORMICA

SPECIAL FEATURES: SLD. GL. DR.

RANGE OVEN VENT-FAN 400; DISHWASHER; CEILED O.H.

COMPUTATION

Unit	Area	5-2-69 WADE Unit Cost	Cost	Unit Cost	Cost	BRADLEY 12-3-70 Unit Cost	Cost	BRADLEY 12-3-70 Unit Cost	Cost	RSA (78) 1/78 Unit Cost	Cost
RES	1337	~~10.20~~	~~13637~~			11.27	15068	~~28.00~~	~~37400~~	28.00	37400
C.C.P. 40%	21	~~3.06~~	~~64~~			4.51	95				x.85
C.C.P. 20%	280	~~2.04~~	~~571~~			2.25	630				31800
AC	1337		~~1500~~	0.90			1203			Base (75)	
FP.			~~400~~		500		500				
~~B. Ins~~			~~675~~								
GAR	440	~~2.25~~	~~990~~			4.26	1874				
PSY			~~460~~				460				
Eq. SHED	600			~~1.75~~	~~1050~~			1.75	1050		1200
											x.85
										Base (75)	1000
Total			~~18297~~		~~1050~~		19830		1050		
Normal % Good		25%	~~100~~		~~85~~	25%	98	25%	83		
R. C. L. N. D.			~~18297~~		~~893~~		19433		872		38600

(69) ~~4590 + 220 = 4990~~ ✓ 4860 + 220 = 5080 (71)

REMARKS: COMPLETE 5-1-69 WADE

SPOKE TO MR & MRS BALANTAC 1 PM 9-23-70 BRADLEY.

(2002) 50000

(2002) 25000

1201 SP ALLOCATION

Assessor—Form 56C ALLIED PTG. CO

RESIDENTIAL BUILDING RECORD

Assessor's Office, San Joaquin County
Stockton, California

Owner: BALANTAC M.T. & C. | Street No.: 11293 S

Appraiser: # 5

CLASS AND SHAPE	CONSTRUCTION	STRUCTURAL	EXTERIOR	WINDOWS	LIGHTING	HEAT
D-6-5-C	Light	X Frame	X Stucco on B.B	D.H. X Casem't	WIRING	X Fireplac
ARCHITECTURE	Sub-Standard	2 x H x 16		Steel Sash ALUM	K.T. Conduit	Floor F
MODERN	X Standard	O Sheathing	Siding	X Screens	B.X. X Cable	Partitio
1 Stories	Above Standard				FIXTURES	Panel
USE TYPE	Special	B.&B. T.&G.	Asbestos Shingle	PLUMBING	Few Cheap	CABINET
X Single		Brick	Shingles Shakes	P. M. X G.	X Avg. X Medium	Gas
Double	FOUNDATION	Conc. Brick	B.&B. T.&G.		Many Special	Zone Unit
Duplex	X Concrete	X Sub Floor 2 11	X Brick Stone	Fixtures		G
Apartment	X Reinforced	X Joist 4 x 6 48	X 4 FT. BR. TRIM PAINT 2 SIDES	Water Heater	COOLING	F
Flat	Brick	ROOF		X Automatic 40 GAL.	Blower	Central Un
Court	Wood	Flat Gable	Shingles X Shakes	Gas X Electric	Refrigeration	G
Motel	Piers	X Hip Shed	Tile Tile T'm	Wash Trays		F
Cabin		Cut Up Pitch	Composition		X Insulated Ceilings	M
Units		Dormers X Gutters	Compo. Shingle		X Insulated Walls	FLEC.
	Light Heavy	X 18" CEN. OVER				3 TON -

CONSTRUCTION RECORD

Permit No.	Permit For	Amount	Date	EFFEC. YEAR	APPR. YEAR	NORMAL % GOOD Age	Remain'g Life	Table	%	RATING (E, G, A, F, P) Cond.	Arch. Attr.	Func. Plan	Con-form.	Stor. Sp Cup'd
60785	RES.	15917	3-20-68		1969			R60	100	G	A	A	A	A
BP				1969	1971	2	58	R60	98	G	A	A	A	A
				1959	1970	11	39	R50	83					

COMPUTATION

Appraiser and Date		5-2-69. WADE				BRADLEY 12-3-70		BRADLEY 12-3-70	
Unit	Area	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
RES	1337	1020	13637			11.27	15068	~~28.00~~	~~37400~~
C.C.P. 40%	21	306	64			4.51	95		
C.C.P. 20%	280	204	571			2.25	630		
AC	1337		1500	0.90			1203		
EP.			400		500		500		
~~B.INS~~			~~675~~						
GAR	440	225	990			4.26	1874		
PSY			460				460		
EQ. SHED	600			175	1050			1.75	1050
Total			~~18297~~		~~1050~~		19830		1050
Normal % Good		25%	~~100~~		~~85~~	25%	98	25%	83
R. C. L. N. D.			~~18297~~		~~892~~		19433		872

Assessor—Form 56C ALLIED PTG. CO (69) ~~4590 + 220 = 4990~~ 4860 + 220 = 5080

Sheet of	Code	Map Book	Pg.
	102-44	C18	29

Subdivision: 191-250-~~OR~~ 14

Street No.	Sec.	Blk.	Twp.	Lot	Range	Arb. or Par.	Acs.
ITAC M.I. & C. 11293 S. Hiway 50	14		15		6E	9	10.72

Appraiser: # 50435

WINDOWS	LIGHTING	HEATING
D.H. X Casem't	WIRING	X Fireplace 500
Steel Sash ALUM	K.T. Conduit	Floor Furnace
Screens	B.X. X Cable	Partition Furnace
	FIXTURES	Panel Heater
PLUMBING	Few Cheap	CABINET HEATER
P. M. X G.	X Avg. X Medium	Gas Oil Wood
Fixtures	Many Special	Zone Unit No. Runs
Water Heater	COOLING	Gravity
Automatic 40 GAL.	Blower	Forced
Gas X Electric	Refrigeration	Central Unit No. Runs
Wash Trays		Gravity
	X Insulated Ceilings	Forced
	X Insulated Walls	M-B.T.U.
		ELEC. H&C. 3 TON -

ROOM AND FINISH DETAIL

ROOMS	FLOORS B	1	2	FLOOR FINISH Material	Grade	TRIM	INTERIOR FINISH Walls	Ceilings
All				PART B			SR	SR
Ent. Hall		1						
Living		1		CARPET	A			
Dining		1		CARPET	A			
Dinette								
Bed		2		CARPET	A			
Bed								
Den								
Br. Nook								
Ser. Porch		1		C. LINO	A			
Kitchen		1		C. LINO	A			
Drain Bd.	Material: FORMICA Lgth: 12 Ft.						Splash: FORMICA	

OOD		RATING (E, G, A, F, P)							BATH DETAIL											
able	%	Cond.	Arch. Attr.	Func. Plan	Con-form.	Stor. Space Cup'd	Closet	Work-'nship	Fl.	No.	Finish Floors	Walls	Fixtures Wc.	La.	Tub.	Type	Grade	Shower St.	O.T.	G.D.	Finish
50	100	G	A	A	A	A	A	A	1	1	C. LINO	SR	1	1	1	COL	G		1	1	FORMICA
50	98	G	A	A	A	A	A	A	1	2	C. LINO	SR	1	1		COL	G	1		1	FORMICA
50	83																			

SPECIAL FEATURES: SLD. GL. DR.

RANGE	400	DISHWASHER	CEILED O.H.
OVEN			
VENT-FAN			

COMPUTATION

BRADLEY 12-3-70 Unit Cost	Cost	BRADLEY 12-3-70 Unit Cost	Cost	RSA (78) 1/78 Unit Cost	Cost
.27	15068	~~28.00~~	~~37400~~	28.00	37400
.51	95				x.85
.25	630				31800
	1203			Base (75)	
	500				
26	1874				
	460				
		1.75	1050		1200
					x.85
					1000
	19830		1050	Base (75)	
%	98	25%	83		
	19433		872		38600

REMARKS: COMPLETE. 5. 1-69. WADE

SPOKE TO MR & MRS BALANTAC. 1 PM 9-23-70 BRADLEY.

(200) 50000

(200) 3 25000

12101 SP ALLOCATION

4860 + 220 = 5080 (71)

…NTAC M.T. & C. | 11293 S. HIWAY 50

Street No.

Sheet	of	Code	Map Book Pg.
		102-44	C18-29

Subdivision: 191-250-~~08~~ 14

Sec.	Blk.	Twp.	Lot	Range	Arb. or Par.	Acs.
14		15		6E	9.	10 .72

…ppraiser # 50435.

WINDOWS
- D.H. X Casem't
- Steel Sash ALUM
- Screens

PLUMBING
- P. M. X G.
- Fixtures
- Water Heater
- Automatic 40 GAL.
- Gas X Electric
- Wash Trays

LIGHTING
- WIRING: K.T. Conduit; B.X. X Cable
- FIXTURES: Few, Cheap; X Avg., X Medium; Many, Special

COOLING
- Blower
- Refrigeration
- X Insulated Ceilings
- X Insulated Walls

HEATING
- X Fireplace 500
- Floor Furnace
- Partition Furnace
- Panel Heater
- CABINET HEATER: Gas, Oil, Wood
- Zone Unit No. Runs: Gravity, Forced
- A ✓ Central Unit No. Runs: Gravity, Forced
- M-B.T.U.
- ELEC. H&C. 3 TON -

ROOM AND FINISH DETAIL

ROOMS	FLOORS B	FLOORS 1	FLOORS 2	FLOOR FINISH Material	FLOOR FINISH Grade	TRIM	INTERIOR FINISH Walls	INTERIOR FINISH Ceilings
All				PART B			SR	SR
Ent. Hall		1						
Living		1		CARPET	A.			
Dining		1		CARPET	A.			
Dinette								
Bed			2	CARPET	A			
Bed								
Den								
Br. Nook								
Ser. Porch		1		C.LINO	A			
Kitchen		1		C.LINO	A			

Drain Bd. Material: FORMICA Lgth: 12 Ft. Splash: FORMICA

GOOD — RATING (E, G, A, F, P)

…able	%	Cond.	Arch. Attr.	Func. Plan	Con-form.	Stor. Space Cup'd	Stor. Space Closet	Work-'nship
~~…60~~	~~100~~	~~G~~	~~A~~	~~A~~	~~A~~	~~A~~	~~A~~	~~A~~
…60	98	G	A	A	A	A	A	A
…50	83							

BATH DETAIL

Fl.	No.	Finish Floors	Finish Walls	Wc.	La.	Tub.	Type	Grade	Shower St.	Shower O.T.	Shower G.D.	Shower Finish
1	1	C.LINO	SR	1	1	1	COL	G		1	1	FORMICA
1	2	C.LINO	SR	1	1		COL	G	1		1	FORMICA

SPECIAL FEATURES SLD. GL. DR.

RANGE / OVEN / VENT-FAN | 400 | DISHWASHER | CEILED O.H.

COMPUTATION

BRADLEY 12-3-70 Unit Cost	Cost	BRADLEY 12-3-70 Unit Cost	Cost	RSA (78) 1/78 Unit Cost	Cost
.27	15068	~~28.00~~	~~37400~~	28.00	37400
.51	95				x.85
.25	630			Base (75)	31800
	1203				
	500				
.26	1874				
	460				
		1.75	1050		1200 x.85
				Base (75)	1000
	19830		1050		
%	98	25%	83		
	19433		872		38600

4860 + 220 = 5080 (71)

REMARKS: COMPLETE. 5 1-69. WADE

SPOKE TO MR & MRS BALANTAS 1 PM 9-23-70 BRADLEY.

(2001) 50000

(2001) 25000

12/01 SP ALLOCATION

MLS 6/30/01

MISCELLANEOUS STRUCTURES

Structure	Found	Cons	Ext.	Roof	Doors	Floor	Int.	Size, etc.
Garage	Conc	WE	Stuc	Shake	OH	Conc	Unfin	
Eq Shed	MS	WE	CT	CT	SL	D	Unfin	
Basement								
Walks								
Drive Way								
Fence								
Sprinklers								
Pressure Sys.	1-HP.							

Gar. Door		Hinge		Sliding	2	O. H.		Wood	X	Aluminum

COMPUTATIONS

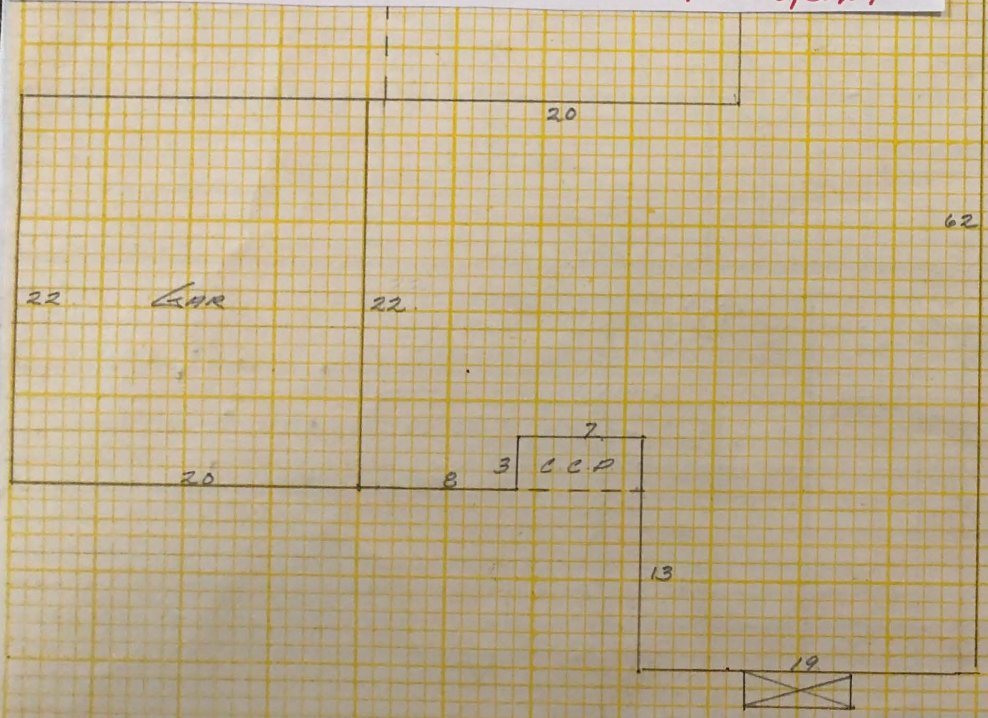
RES. 8 X 22 = 176
7 X 19 = 133
5 X 32 = 160
14 X 62 = 868
1337

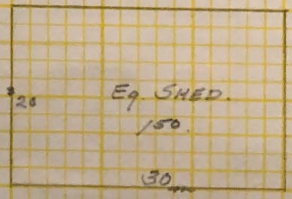
C.C.P. 3 X 7 = 21

C.C.P 14 X 20 = 280

GAR 20 X 22 = 440

Eq SHED 20 X 30 = 600





MISCELLANEOUS STRUCTURES

Structure	Found	Cons	Ext.	Roof	Doors	Floor	Int.	Size.
Garage	Conc	WE	Stuc	Shake	OH	Conc	Unf	
Eq Shed	MS.	WE	CT	CT.	SL	D.	Unf.	
Basement								

Walks	
Drive Way	
Fence	
Sprinklers	
Pressure Sys.	1-HP.

Gar. Door		Hinge		Sliding	2	O. H.		Wood	X	Aluminum

COMPUTATIONS

RES. 8 X 22 = 176.
7 X 19 = 133
5 X 32 = 160.
14 X 62 = 868.
1337

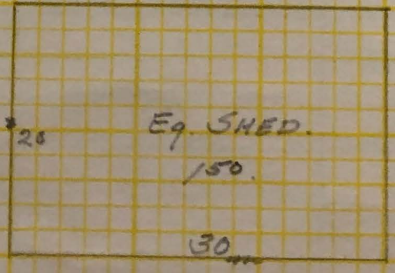
C.C.P. 3 X 7 = 21.

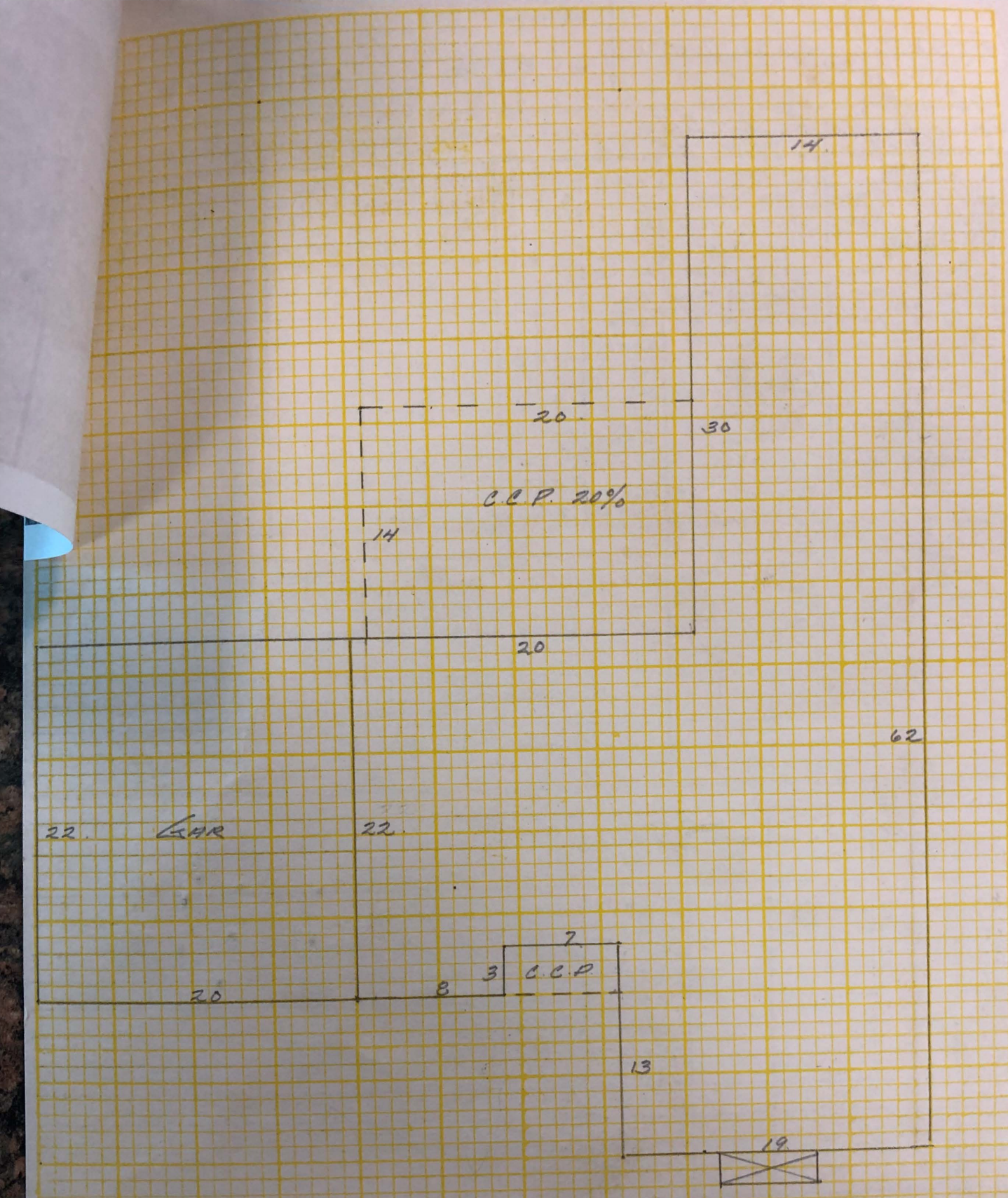
C.C.P. 14 X 20 = 280

GAR. 20 X 22 = 440

Eq SHED. 20 X 30 = 600

62





Structure
Garage
Eq. Sing
Basement
Walks
Drive Wa
Fence
Sprinklers
Pressure S
Gar. Doo
RES
C.C
C.C

PHASE I ENVIRONMENTAL SITE ASSESSMENT
26 MARCH 2019

Phase I Environmental Site Assessment

KELLEY - MANTHEY PROPERTY
11293 South Manthey Road, Lathrop, California 95330

26 March 2019
AGE Project No. 19-4667

PREPARED FOR:

Mr. Gurbinder Singh
Singh Petroleum Investments

PREPARED BY:

AdvancedGeo Environmental
An Employee-Owned Company

Environmental • Compliance • Industrial Hygiene • Geotechnical
Phone: 800-511-9300
Fax: 888-445-8786
www.advgeoenv.com

"Working in Partnership with People, Business and the Environment"

Phase I Environmental Site Assessment
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"Working in Partnership with People, Business and the Environment"

PREPARED BY:

Jackie Hyman
Staff Geologist

REVIEWED BY:

Diane Becker
Senior Geologist
California Professional Geologist No. 7469

Phase I Environmental Site Assessment
KELLEY - MANTHEY PROPERTY
11293 South Manthey Road, Lathrop, California 95330

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Phase I Environmental Site Assessment
KELLEY - MANTHEY PROPERTY
11293 South Manthey Road, Lathrop, California 95330

TABLE OF CONTENTS

Phase I Environmental Site Assessment
KELLEY - MANTHEY PROPERTY
11293 South Manthey Road, Lathrop, California 95330

EXECUTIVE SUMMARY

Advanced GeoEnvironmental, Inc. conducted this Phase I Environmental Site Assessment of the property located at 11293 South Manthey Road, Lathrop, San Joaquin County, California 95330, in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

PROPERTY USE

The subject property is a 11.4-acre parcel south of Roth Road. Manthey Road crosses through the eastern portion of the property parcel. The subject property is located within a mixed agricultural and commercial area of the City of Lathrop, San Joaquin County, California. The property is undeveloped land, with several remnants of a former residence remaining at the site, including a well pump and electric meter.

Based on a review of historical documents, the subject property has utilized agriculturally since the late 1930s. Several farm and homestead structures have been located at the property over time. Between the late 1960s to mid-1970s, Manthey Road was developed through the eastern portion of the subject property.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-13, a recognized environmental condition (REC) is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of

the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The following findings are differentiated below as Business Environmental Risks and *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs.

BUSINESS ENVIRONMENTAL RISK

This assessment revealed no evidence of potential Business Environmental Risks in connection with the subject property.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of HRECs in connection with the subject property.

CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of CRECs in connection with the subject property.

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property.

CONCLUSIONS AND OPINION

Advanced GeoEnvironmental, Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at 11293 South Manthey Road, Lathrop, California 95330. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGE did not identify any REC's on the subject property during the course of the Phase I. AGE has no recommendations for additional investigations at the subject property at this time.

Phase I Environmental Site Assessment
KELLEY - MANTHEY PROPERTY
11293 South Manthey Road, Lathrop, California 95330

1.0. INTRODUCTION

Advanced GeoEnvironmental, Inc. (AGE) has been retained by Gurbinder Singh of Singh Petroleum Investments to perform a Phase I Environmental Site Assessment (Phase I) of the property located at 11293 South Manthey Road, Lathrop, San Joaquin County, California 95330 (hereafter referred to as subject property or property). The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the United States Environmental Protection Agency (USEPA) Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-13 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-13).

The goal of ASTM Standard Practice E1527-13 is to identify *recognized environmental conditions* (RECs) in connection with the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be

the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. A historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

1.2. SITE DESCRIPTION

The subject property is a 11.4-acre parcel south of Roth Road. Manthey Road crosses through the eastern portion of the property parcel. The subject property is located within a mixed agricultural and commercial area of the City of Lathrop, San Joaquin County, California. Further property location descriptions, characteristics, improvements, and site vicinity characteristics are discussed below.

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Address	11293 S Manthey Rd Acampo CA 95220
Assessor's Parcel Number (APN)	191-250-140-000
Property Owner	Kelley, Kanwar S
Land Use Type	Single Family Residential
Legal Description	None provided
Size of Property	11.400

The parcel map and owner information were provided by ParcelQuest/CD Data as a representation of current data downloaded monthly from the County Assessor's Office. Copies of the parcel map and the owner information are provided in Appendix B.

1.2.2. Site and Vicinity General Characteristics

The subject property is located within a mixed agricultural and commercial area of the City of Lathrop, San Joaquin County, California. Figure 1 shows the setting of the subject

property (7.5 Minute United States Geological Survey [USGS] Topographic Series, Lathrop, California). Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The property is undeveloped land, with several remnants of a former residence remaining at the site, including a well pump and electric meter. It is likely the domestic well remains at the property.

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 8.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-13 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services are discussed in Section 7.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long-term familiarity with the subject property as specified in ASTM E1527-13 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. AGE is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. AGE assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences

made are reasonably representative of the property. AGE makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction, however, they are considered non-scope issues under ASTM Practice E1527-13. Any addition of non-scope items must be agreed upon between the user and AGE prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions, agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a ‘due diligence’ effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-13 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the *Small Business Liability Relief and Brownfields Revitalization Act of 2001*, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	An environmental lien or AUL's (activity and usage limitations) search was not requested by the user.
Specialized Knowledge	AGE was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.
Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Potential property transaction
Other	No modifications to the ASTM E1527-13 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services are discussed in Section 7.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to AGE.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting, and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five-year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance Maps (no coverage), aerial photographs, topographic maps, telephone directory information, San Joaquin County Assessor's Office records and the San Joaquin County Community Development Department records.

Based on a review of historical documents, the subject property has utilized agriculturally since the late 1930s. Several farm and homestead structures have been located at the property over time. Between the late 1960s to mid-1970s, Manthey Road was developed through the eastern portion of the subject property.

In summary, review of the historical documents revealed no features on the subject property of environmental concern. Representative historical records are provided within Appendix B.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. EDR owns the largest collection of Sanborn Fire Insurance Maps. AGE requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn Fire Insurance Map coverage is not available for the subject property.

3.1.1.2. Aerial Photographs

AGE reviewed aerial photographs of the subject property and surrounding area that were provided by EDR for the years 1937, 1940, 1957, 1963, 1968, 1975, 1982, 1993, 2006, 2009, 2012, and 2016. The following is a summary of our review of the aerial photographs:

Year(s)	Aerial Photo Summary
1937	*Subject Property:* Agricultural land
	North: Agricultural land and a small farm structure
	South: Agricultural land
	East: Agricultural land, including several farm/homestead structures, beyond is a road in the approximate position of the Interstate 5.
	West: Agricultural land
1940, 1957, 1963	*Subject Property:* Agricultural land. Approximately three small farm structures are visible in the eastern portion of the property. By 1957, only one structure appears to remain in the southeast portion of the property.
	North: Agricultural land
	South: Agricultural land
	East: Agricultural land, including a farm structure to the northeast, beyond is a road in the approximate position of the 5 Freeway. Additional homestead/farm structures are developed in the late 1950s.
	West: Agricultural land
1968	*Subject Property:* A large house is visible in the eastern portion of the property the remainder of the property is agricultural.
	North: Agricultural land and a homestead
	South: Agricultural land and a homestead
	East: Agricultural land, including a homestead and farm structures, beyond is a road in the approximate position of Interstate 5. By 1975, Interstate 5 Freeway onramps and offramps are developed in their current location.
	West: Agricultural land
1975, 1982, 1993, 2006, 2009, 2012, 2016	*Subject Property:* Manthey Road is developed east of the property house. The land beyond Manthey Road in the eastern portion of the property, appears to be vacant land. The remainder of the property is agricultural.
	North: Agricultural land and a homestead
	South: Agricultural land and a homestead
	East: Interstate 5 Freeway, onramps and offramps are developed in the current position.
	West: Agricultural land

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the subject property.

3.1.1.3. Historical Topographic Maps

AGE reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1915, 1952, 1968, 1976, 1987, 1994, 1996 and 2012. The following is a summary of our review of the topographic maps:

Year(s)	Historical Topographic Map Summary
1915, 1952	*Subject Property:* Undeveloped land
	North: Undeveloped land
	South: Undeveloped land
	East: Undeveloped land beyond is a road in the approximate position of the 5 Freeway. By 1952, numerous small building footprints are mapped west of the road.
	West: Undeveloped land
1968	*Subject Property:* Two small building footprints are mapped in the eastern portion of the property.
	North: Four residential building footprints are mapped.
	South: Two residential building footprints are mapped.
	East: Numerous small building footprints are mapped beyond are two roads in the approximate position of the 5 Freeway.
	West: Undeveloped land
1976, 1987, 1994, 1996	*Subject Property:* Manthey Road is mapped through the eastern portion of the property. One small building footprint remains mapped west of Manthey Road.
	North: Four residential building footprints are mapped. Roth Road is mapped to the northeast.
	South: One residential building footprint is mapped.
	East: The 5 Freeway, on-ramps and off-ramps are newly developed.
	West: Undeveloped land
2012	Similar to previous maps, however no property use details are mapped.

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

AGE requested that EDR provide a review of city and street directories to determine the occupancy history of the property for the years 1975, 1980, 1985, 1992, 1995, 2000, 2005, 2010 and 2014. The following is a summary of the city directory search:

Year(s)	Directory Listing Summary
1975, 1980, 1985, 1992, 1995	Address not listed
2000	Chastian, Gina M.
2005	Kelley, Kanwarjit S. Shiva Express Inc.
2010	Kelley, Gurdip Kelley, Kanwar S. Shiva Express Inc.
2014	Kelley, Gurdip Shiva Express Inc.

A review of historical telephone directory listings of the subject property address did not reveal any items of environmental concern.

3.1.1.5. Building Department Records

A review of San Joaquin County Community Development Department records is summarized in the following table:

Year(s)	Summary
1995	Permit to tear off, re-sheath, and re-roof with composite roofing.
2006	Merger Application for APN:191-250-08 and 191-50-11 into one parcel. Location: On the west side of Manthey Road, approximately 740-feet north of Manila Road (Lathrop).
2009	Use Permit Application and associated documents to establish a truck stop, hotel, convenience store with automobile fuel island and full-service restaurant to be built in three phases.
2016	Withdrawn Permit to repair fire damaged single-family residence. Rebuild roof with new trusses, rebuild den and attached garage.

A review of historical public building of the subject property address did not reveal any items of environmental concern with the exception of the 2009 permit to establish a truck stop with a fuel island.

3.1.1.6. Assessor's Records

A review of San Joaquin County Assessor's records is summarized in the following table:

Year(s)	Summary
1968	Residential Building Record for a 1,337-square foot single-story, two-bedroom home, 440-square foot garage and 600-sqaure foot equipment shed.

A review of historical assessor's records of the subject property address did not reveal any items of environmental concern.

3.1.1.7. Previous Phase I and II Environmental Site Assessments

No previous Phase I or II Environmental Site Assessments were provided to AGE by the user and/or property owner during the course of this Phase I.

3.1.2. Historical Use Information on Adjoining Properties

Historical use of immediately adjoining properties has been agricultural land and homesteads since the late 1930s. The 5 Freeway was developed to the west in the early 1970s.

Historical uses of adjoining properties do not appear to be of environmental concern to the subject property.

3.2. PHYSICAL SETTING

Geology	The subject property is situated within the Great Valley Geomorphic Province of California, an elongate, northwest trending structural trough running 400 miles through Central California. The Great Valley is bound to the north by the Klamath Mountains, the south by the Tehachapi Mountains, the east by the Sierra Nevada Mountains, and the west by the Coast Ranges. Approximately 32,000 feet of marine and continental sediment have been deposited almost continuously since the Jurassic. The northern and southern regions of the Great Valley are designated the Sacramento and San Joaquin Valleys, respectively. The subject property is located within the San Joaquin Valley.
Hydrology	The subject property and surrounding area lie within the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin (5-22.01). This subbasin is bound on the south, southwest, and west by the Modesto, Delta-Mendota, and Tracy Subbasins, respectively, and on the northwest and north by the Solano, South American, and Cosumnes Subbasins. The Solano and South American

Hydrology	are subbasins of the Sacramento Valley Groundwater Basin. The Eastern San Joaquin Subbasin is drained by the San Joaquin River and several of its major tributaries namely, the Stanislaus, and Calaveras, and Mokelumne Rivers. The San Joaquin River flows northward into the Sacramento and San Joaquin Delta and discharged into the San Francisco Bay. Annual precipitation within the subbasin ranges from about 11 inches in the southwest to about 25 inches in the northeast. Groundwater information collected from the State of California Geotracker database indicates that groundwater is found at an approximate depth of 22 feet below surface grade and flows to the north-northwest.
Topography	The property is located at an elevation of approximately 17 feet above mean sea level (MSL), in an area of low topographic relief. Regional slope of the area is toward the general west-southwest.
Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture at the subject property consists of soil identified as Veritas, a fine sandy loam in the Class B Hydrogeologic Group which includes moderate infiltration rates. Corrosion potential of this soil for uncoated steel is high.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water feature in the vicinity of the subject property is an agricultural pond approximately one-mile west.
Flood Zone	The EDR database report shows that the subject property is not located within either a 100-year or 500-year Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined 100-year and 500-year flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A complete list and description of databases investigated, in compliance with ASTM E1527-13 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. Subject Property Database Search

Subject property address 11293 South Manthey Road, Lathrop, California 95330 was listed under the facility name *Gurdip Kelly* on the following governmental databases in the EDR Report. The property was listed on the HAZNET database indicating 0.46-ton of asbestos containing waste was generated at the site in 2015.

3.3.2. Site Vicinity Database Search

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGE retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C. The following information was obtained:

Type	Regulatory Agency Database	AMSD	Number of Sites within the AMSD
Federal	National Priority List Sites: **NPL, Proposed NPL, NPL LIENS**	1mile	**1**
Federal	Delisted National Priority List Sites: **Delisted NPL**	½-mile	0
Federal	Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites: **FEDERAL FACILITY, SEMS**	½-mile	**1**
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites: **SEMS-ARCHIVE**	½-mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report Sites: **CORRACTS**	1 mile	**1**
Federal	RCRA Non-CORRACTS Treatment, Storage, or Disposal (TSD) Sites: **RCRA-TSDF**	½- mile	**1**
Federal	RCRA Generator Sites: **RCRA-LQG, RCRA-SQG, RCRA - CESQG**	¼-mile	**2**
Federal	Institutional Control/Engineering Control Registry Sites: **LUCIS, US ENG CONTROLS, US INST CONTROL**	½-mile	**1**

Type	Regulatory Agency Database	AMSD	Number of Sites within the AMSD
Federal	Environmental Response and Notification System Sites: **ERNS**	<1/8-mile	0
State & Tribal	Equivalent to NPL: **RESPONSE**	1 mile	0
State & Tribal	Equivalent to CERCLIS: **ENVIROSTOR**	1 mile	**5**
State & Tribal	Solid Waste Disposal Facilities and/or Landfill Sites: **SWF/LF**	½-mile	0
State & Tribal	Leaking Storage Tank Sites: **LUST, INDIAN LUST, SLIC**	½-mile	**2**
State & Tribal	Registered Storage Tank Sites: **FEMA UST, UST, AST, INDIAN UST**	¼-mile	**11**
State & Tribal	Voluntary Cleanup Sites: **INDIAN VCP, VCP**	½-mile	0
State, Tribal and Local	Brownfield Sites: **BROWNFIELDS, US BROWNFIELDS**	½-mile	0
Local	Registered Storage Tank Sites: **SWEEPS UST, HIST UST, CA FID UST**	¼-mile	**5**
Local	Dry Cleaning Facility Sites: **DRYCLEANERS**	¼-mile	0
Either	Unmappable Database Listings: **orphan sites**	Database dependent	**4**

AMSD: Appropriate Minimum Search Distance

AGE's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, AGE considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;
- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;
- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria and based on a review of readily available information contained within the regulatory database report, AGE did not identify adjacent or nearby sites (e.g. within ¼-mile radius) listed on the regulatory database report that were judged to present a potential environmental risk to the subject property.

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, AGE contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on groundwater flow direction, distance from the subject property and nature of the releases causing the environmental condition.

Additional agency searches include the following:

- San Joaquin County Environmental Health Department (SJCEHD) and the Central Valley Regional Water Quality Control Board (Regional Board) maintain records of industrial violations for this area and are the lead agencies for the enforcement of the State Underground Storage Tank and Hazardous Waste Laws for San Joaquin County. AGE requested to review any files that were available.
- The Regional Board also maintains and online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. AGE reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites.
- The California Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of hazardous waste regulations, cleanup of existing contamination, pollution prevention and reduction in hazardous waste and toxic materials and identification of potential new pollutants. The DTSC maintains the EnviroStor Data Management System (ENVIROSTOR) which allows for the search for information on investigation, cleanup, permitting and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. AGE reviewed the ENVIROSTOR database for any information that may be available.
- The United States Environmental Protection Agency (USEPA) provides an online computer database, ENVIROFACTS, providing lists of sites listed on multiple USEPA databases. AGE reviewed the ENVIROFACTS database for any information that may be available.
- San Joaquin Valley Air Pollution Control District (SJVAPCD) – is a public health agency whose mission is to improve the health and quality of life for all Valley

residents through efficient and effective air quality management strategies. AGE contacted the SJVAPCD for any information that may be available.

- Division of Oil, Gas and Geothermal Resources (DOGGR) maintains a website, DOGGR Online Mapping (DOM) system, allowing for the search of oil and gas related information. AGE reviewed the DOM system for any oil and gas information in the vicinity of the property.

3.4.1. Additional Subject Property Record Sources

The subject property address was searched on the following record sources:

SOURCE	SUMMARY
Regional Board & GeoTracker database	Property address was not listed on the GeoTracker database and did not have any records on-file with the Regional Board.
DTSC & ENVIROSTOR database	Property address was not listed on the ENVIROSTOR database and did not have any records on-file with the DTSC.
USEPA ENVIROFACTS	Property address was not listed on the ENVIROFACTs database.
SJVAPCD	Property address was not identified as having records on-file with the SJVAPCD.
SJCEHD	Property address was identified as having records on-file with the SJCEHD regarding installation of a septic system and percolation tests.
DOM System	According to the DOM System, no oil and/or gas wells are located in the vicinity of the subject property.

3.4.2. Additional Site Vicinity Record Sources

The SJCEHD and Regional Board maintain records for, and are responsible for, enforcement of state UST and hazardous waste laws. AGE commonly reviews files for up-gradient sites under active environmental regulation to ascertain the current site status and its potential to impact the subject property. No sites, under active or past environmental regulation, were identified by the database search within the required search radius of potential concern to the property.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

The following records were provided to AGE by the user and/or property owner during the course of this Phase I:

- Assessor Parcel Map
- 2018 - Plan Application, Use Permit Application, Zone Reclassification Application Site Plan, and Traffic Survey regarding use of the property as a UPS truck terminal.

3.6. VAPOR ENCROACHMENT CONDITION

The encroachment of hydrocarbon and volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry-cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-15 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), AGE evaluated the potential for a Vapor Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that 'a VEC does not exist' at the property. A copy of the AGE-generated Tier 1 VEC screening form is provided within Appendix E.

4.0. SITE RECONNAISSANCE

A subject property site reconnaissance was conducted by an AGE representative on 21 March 2019. At the time of the site visit the weather was clear and warm. Primary features of the property are shown in a site plan provided in Figure 2. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted.

4.2. GENERAL SITE SETTING

The following is a description of the primary features of the subject property observed at the time of the site visit:

The property is undeveloped land, with several remnants of a former residence remaining at the site, including a well pump and electric meter. Numerous tires, an empty 55-gallon drum, containers of coolant and miscellaneous debris appear to have been disposed of at the property.

The following is a description of the property improvements:

Structures	Weathered remnants of a possible wood barn / out-building.
Adjoining / Access / Egress Roads	The property is accessible via Manthey Road. A portion of an asphalt driveway is located west of Manthey Road.
Surface Types	The property is covered with grass and weeds. A portion of an asphalt driveway is located west of Manthey Road.
Additional Features	None
Surface Water	None
Potable Water Source	None observed
Sanitary Sewer Utility	None observed
Storm Drain Utility	None observed
Electric Utility	Pacific Gas and Electric
Natural Gas Utility	None observed

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	Agricultural land and residence, APN: 193-330-36 and 11199 South Manthey Road
South	Agricultural land and residence, 11401 South Manthey Road
East	5 Freeway
West	Agricultural land, APN: 191-250-06

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR AND INTERIOR OBSERVATIONS

The following was observed at the time of the property reconnaissance:

YES	NO	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
	X	**Pits, ponds or lagoons with respect to waste treatment or disposal**
	X	**Stained soil or pavement, patched pavement**
	X	**Stressed vegetation (from causes other than insufficient water)**
	X	**Fill dirt from unknown source, or contaminated source**
	X	**Solid waste (mounds or depressions suggesting waste disposal)**
	X	**Waste water / storm water discharged into a drain, ditch or stream**

YES	NO	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
X		**Wells (abandoned, irrigation, domestic, monitoring or oil and gas)** *A vertical turbine well pump and above ground piping were observed near the location of the former residence, near Manthey Road. It is likely the domestic well is in this location.*
	X	**Dry wells**
	X	**Septic systems or cesspools**
	X	**Movement of hazardous materials to adjacent properties**
	X	**Hazardous substances and/or petroleum products**
	X	**Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances**
	X	**Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances**
	X	**Strong, pungent or noxious odors**
	X	**Pools of liquid (other than water)**
X		**55-gallon drum or large sack storage** *An empty 55-gallon was observed in the southwest corner of the property.*
	X	**Unidentified substance containers**
	X	**Stains and/or corrosion on floors, walls or ceiling (except water)**
	X	**Drains and sumps**
	X	**Oil-water separator/clarifier**
X		**Electrical or hydraulic equipment known to contain PCBs** *A pole-mounted transformer is located west of Manthey Road, in the northeast portion of the property.*
	X	**Obvious signs of possible ACMs**
	X	**Obvious signs of mold**
	X	**Other areas of environmental concern**

5.0. MATERIAL STORAGE

No current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the subject property or have been historically utilized on the property.

6.0. INTERVIEWS

Interviews performed during the course of this Phase I are described below. AGE Forwarded an ASTM-compliant questionnaire to the property owner however it has not been returned to AGE as of the publication date of this report.

7.0. BUSINESS ENVIRONMENTAL RISKS – NON-ASTM SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice that have the potential to pose business environmental risks are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

No structures are located on the property.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials. Asbestos was introduced to building materials on large scale during the 20th century because of its physical properties demonstrating its abilities as insulation, fire-retardant, material strengthening and durability, and it served as a good binding product. Because of these properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, certain uses developed before 1989 are still allowed. When asbestos-containing materials are

damaged or disturbed by maintenance, repair, remodeling or demolition activities, microscopic fibers can become airborne and inhaled into the lungs, where they can cause significant health problems.

No structures are located on the property.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

No structures are located on the property.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in ground water and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, the subject property county, San Joaquin, is located in a low radon potential area (Zone 3), defined as having a ‘predicted average indoor radon screening level of less than 2 pCi/L'.

7.5. WETLANDS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within a National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

AGE searched the subject property address, 11293 South Manthey Road, Lathrop, California 95330, on local, state and federal databases. No records were found regarding any outstanding regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-13 and USEPA AAI are presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 22 years, between 1915 and 1937, with the earliest researched information being a Topographic Map dated in 1915. Data gaps generally do not exceed five years between 1937 through the present, except between 1940 and 1952, 1968 and 1975.
- An ASTM-compliant interview/questionnaire was not conducted. The property owner was provided a questionnaire, but had not returned it by the publish date of this Phase I.

AGE does not believe any gaps in the data reviewed have affected the ability to identify recognized environmental concerns.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-13, the following findings are differentiated below as Business Environmental Risk (including the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials may constitute a Business Environmental Risk), *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report.

8.2.1. Business Environmental Risk

This assessment revealed no evidence of potential Business Environmental Risks in connection with the subject property.

8.2.2. *De Minimis* Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.3. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.4. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.5. Recognized Environmental Conditions

This assessment has revealed no evidence of RECs in connection with the subject property.

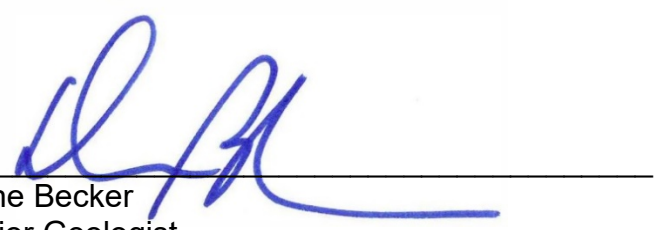
8.3. CONCLUSIONS AND OPINION

Advanced GeoEnvironmental, Inc. has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at 11293 South Manthey Road, Lathrop, California 95330. Any exceptions to, or deletions from, this practice or scope of work are described in Section 8.1. of this report or presented as non-ASTM services in Section 7.0. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGE did not identify any REC's on the subject property during the course of the Phase I. AGE has no recommendations for additional investigations at the subject property at this time.

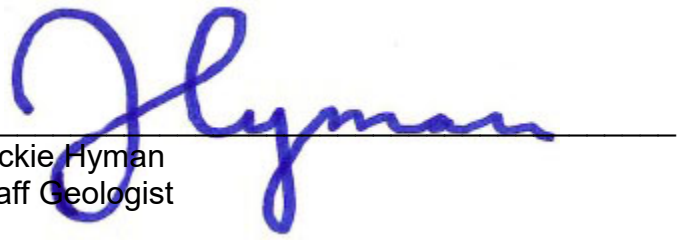
8.4. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we

have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Diane Becker
Senior Geologist
California Professional Geologist No. 7469



Jackie Hyman
Staff Geologist

8.5. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix F.

8.6. REFERENCES

The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

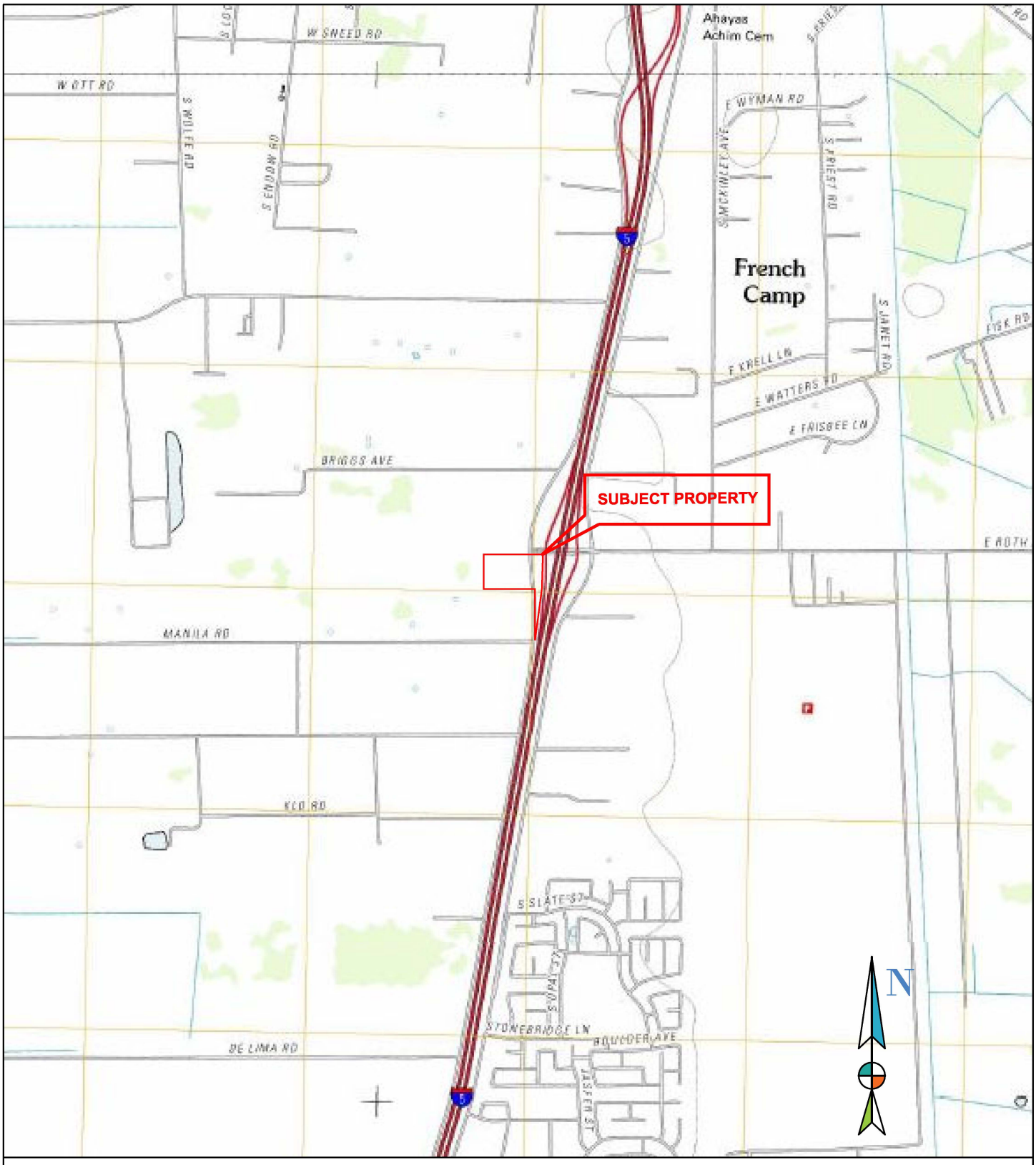
- ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2013.
- California Department of Water Resources (DWR), Groundwater Basins in California, Version 3.0., 2003.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The EDR-City Directory Abstract, Certified Sanborn® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/

- California Geological Survey – Note 36: California Geomorphic Provinces: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download - www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html
- Division of Oil, Gas and Geothermal Resources (DOGGR) Online Mapping (DOM) System: http://maps.conservation.ca.gov/doms/doms-app.html

FIGURES



LATHROP, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

0 2,000 4,000
APPROXIMATE SCALE IN FEET

AdvancedGeo Environmental
www.advgeoenv.com
(800) 511-9300

LOCATION MAP

KELLEY - MANTHEY PROPERTY
1293 SOUTH MANTHEY ROAD
LATHROP, CALIFORNIA 95330

DATE: MARCH 2019
FILE: LOCATION
DRAWN BY: JAH
PROJECT NO. 19-4667
FIGURE: 1

LEGEND

: Approximate Property Boundary

: Location of Former Residence

: Location of Former Well Pump

AdvancedGeo Environmental
www.advgeoenv.com
(800) 511-9300

SITE PLAN

KELLEY - MANTHEY PROPERTY
1293 SOUTH MANTHEY ROAD
LATHROP, CALIFORNIA 95330

DATE:	MARCH 2019
FILE:	SP
DRAWN BY:	JAH
PROJECT NO.	19-4667
FIGURE:	2

APPENDIX A

Photographs of Subject Property

APPENDIX A
KELLEY - MANTHEY PROPERTY

Photo 1: View of the driveway leading onto the property from the west side of Manthey Road. Tires appear to have been discarded at the property.

View looking west.

Photo 2: View looking towards the area of the former residence.

View looking southeast.

APPENDIX A
KELLEY - MANTHEY PROPERTY

Photo 3: View of an empty drum in the southwest corner of the property.

View looking north.

Photo 4: View of a former well pump in the area of the former residence.

APPENDIX A
KELLEY - MANTHEY PROPERTY

Photo 5: Overview of the property looking east from the southwest corner of the property.

Photo 6: View of the pole-mounted transformer adjacent to the west of Manthey Road.

APPENDIX A
KELLEY - MANTHEY PROPERTY

Photo 7: View of the portion of the property east of Manthey Road.

View looking east.

Photo 8: View of the adjacent residence to the north.

View looking west.

APPENDIX A
KELLEY - MANTHEY PROPERTY

Photo 9: View of the adjacent residence to the south.

View looking south.

Photo 10: View of agricultural land to the adjacent west.

View looking west.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
26 APRIL 2021

Phase I Environmental Site Assessment
BACAY PROPERTY
169 Manila Road, Lathrop, California

26 April 2021
Project No. 21-6398

PREPARED FOR:

Mr. Gurbinder Singh
VALLEY REAL ESTATE CENTER

PREPARED BY:

AdvancedGeo
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"Working in Partnership with People, Business and the Environment"

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California Professional Geologist No. 6709
Registered Environmental Property Assessor No. 136161

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EXECUTIVE SUMMARY

AdvancedGeo, Inc. (AGI) conducted this Phase I Environmental Site Assessment for the property located at 169 Manila Road, Lathrop, San Joaquin County, California (subject property or property) in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries 'AAI' (40 CFR Part 312).

PROPERTY USE

The subject property is a rectangular, 10.3-acre, parcel located to the north of Manila Road in a rural/agricultural area of the city of Lathrop, California. The property is currently vacant rural grassland with no buildings or structures on the property except for an abandoned water well located on the southeast corner.

Based on a review of historical documents, the property was vacant until 1957 when a single family residence was built on the southwest corner. The residence was demolished in 1975. The property is currently vacant rural grassland.

FINDINGS

Based on the standards set by ASTM Standard Practice E1527-13, a recognized environmental condition (REC) is the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be *de minimis*, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions. Conditions that are considered Business Environmental Risk include the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

The following findings are differentiated below as Business Environmental Risks and *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs.

BUSINESS ENVIRONMENTAL RISKS

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property with the exception of the abandoned water well. If the well will not be rehabilitated for future use, the well should be destroyed under permit.

DE MINIMIS CONDITIONS

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

HISTORICAL RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of HRECs in connection with the subject property.

CONTROLLED RECOGNIZED ENVIRONMENTAL CONDITION

This assessment has revealed no evidence of CRECs in connection with the subject property.

RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed no evidence of RECs in connection with the subject property.

OTHER POTENTIAL ENVIRONMENTAL ISSUES

This assessment has revealed no evidence of other potential environmental issues in connection with the subject property.

CONCLUSIONS AND OPINION

AdvancedGeo, Inc. (AGI) has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at 169 Manila Road, Lathrop, California. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. AGI did not identify any REC's on the subject property during the course of the Phase I. AGI has no recommendations for additional investigations at the subject property at this time.

1.0. INTRODUCTION

AdvancedGeo, Inc. (AGI) has been retained by Valley Real Estate Center to perform a Phase I Environmental Site Assessment (Phase I) of the property located at 169 Manila Road, Lathrop, San Joaquin County, California (hereafter referred to as subject property or property). The Phase I was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for 'All Appropriate Inquiries (AAI)' (40 CFR Part 312). The Phase I is designed to provide the Client (user) with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

1.1. PURPOSE

The purpose of the Phase I is to identify and assess environmental characteristics of the subject property that could lead to liability in the event of ownership, that could have a potential impact on property value or that could impact the present or future use of the subject property.

The purpose of ASTM Standard Practice E1527-13 and USEPA AAI is to define good commercial and customary practice for conducting an environmental site assessment of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). An evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this practice (based on ASTM Practice E1527-13).

The goal of ASTM Standard Practice E1527-13 is to identify recognized environmental conditions (RECs) in connection with the subject property. A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. Conditions that are determined to be de minimis, which do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

The standard further identifies historical RECs and controlled RECs. An historical REC (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. A controlled REC (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

1.2. SITE DESCRIPTION

The subject property is a rectangular, 10.3-acre parcel, located to the north of Manila Road in a rural/agricultural area of the city of Lathrop, California. The property is currently vacant rural grassland with no buildings or structures on the property except for an abandoned water well located on the southeast corner.

Further property location descriptions, characteristics, improvements and site vicinity characteristics are discussed below.

1.2.1. Location and Legal Description

The subject property location can be identified as the following:

Site Address(es)	169 Manila Road, Lathrop, California
Assessor's Parcel Number(s) (APN)	191-250-060-000
Property Owner	Bacay Antonio A Tr Etal
Land Use Type	Agricultural
Zoning	
Legal Description	
Size of Property	10.3 Acres

The parcel map and owner information were obtained from the County Assessor's Office or independent parcel search company. Copies of the parcel map and the owner information are provided in Appendix B.

1.2.2. Site and Vicinity General Characteristics

The subject property is located within a agricultural area of the City of Lathrop, San Joaquin County, California. Figure 1 shows the setting of the subject property (7.5 Minute United States Geological Survey [USGS] Topographic Series, Lathrop Quadrangle, California). Photographs of the subject property are provided in Appendix A.

1.2.3. Current Use of Property

The property is currently vacant rural grassland with no buildings or structures on the property except for an abandoned water well located on the southeast corner.

1.2.4. Proposed Use of Property

It is AGI’s understanding that the proposed future property use is single-family residential.

1.2.5. Property Utilities

There are no known historic utilities serving the subject property except for power lines that run parallel with the west and east borders of the property.

1.3. DETAILED SCOPE-OF-SERVICES

Except where identified in Section 8.1., the scope of work for this Phase I conforms to ASTM Standard Practice E1527-13 and the USEPA AAI (40 CFR Part 312). Any additional User requested scope of services are discussed in Section 7.0.

1.4. SIGNIFICANT ASSUMPTIONS

Our professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar fields. Findings were based mainly upon examination of historical records, maps, aerial photographs and government agency lists, on a site reconnaissance visit, and on information obtained during personal interviews with persons of long term familiarity with the subject property as specified in ASTM E1527-13 and the USEPA AAI. Hazardous waste site lists presented in this report represents only a search of specific government records as listed below. AGI is aware additional government records may exist. It should be noted that government agencies often do not list all sites with environmental contamination or that the list could be inaccurate and/or incomplete.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites, are assumed based on geologic interpretations from available sources. AGI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.5. LIMITATIONS AND EXCEPTIONS

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AGI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified as beyond the scope of an ASTM Phase I that may affect business environmental risks at a property include the following: asbestos-containing materials (ACMs); biological agents; cultural and historic resources; ecological resources; endangered species; health and safety; indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment; industrial hygiene; lead-based paint (LBP); lead in drinking water; mold; radon; regulatory compliance; and wetlands. These environmental issues may warrant assessment based on the type of property or transaction, however, they are considered non-scope issues under ASTM Practice E1527-13. Any addition of non-scope items must be agreed upon between the user and AGI prior to initiation of the Phase I.

The Phase I Environmental Site Assessment is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of investigation into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings,

conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property visit.

1.6. SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions, agreed upon by the environmental professional, beyond the initial agreed upon scope of work, used in preparation of this report.

1.7. USER RELIANCE

Conclusions and recommendations in this report are based on findings regarding historical use of the site, and on features noted during the site reconnaissance. The absence of any potential gross contamination sources, historic or present, does not necessarily imply that the site is free of any contamination. This report only represents a 'due diligence' effort as to the current environmental status of the site. No other warranty, expressed or implied, is made as to the professional recommendations contained in this report.

2.0. USER PROVIDED INFORMATION

According to the ASTM Standard E1527-13 and the USEPA AAI, in order to qualify for one of the Landowner Liability Protections (LLPs) to CERCLA liability offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the client (user) must provide to the environmental professional the following information (if available) in relation to the subject property:

Title Records	A review of Title Records was not requested by the user.
Environmental Liens or Activity and Use Limitations	An environmental lien or AUL's (activity and usage limitations) search was not requested by the user.
Specialized Knowledge	AGI was not provided any specialized knowledge by the user and does have not any specialized knowledge of this property outside of what is contained in this report. The property ownership and tenants as well as all individuals who were interviewed as part of this investigation, have not reported any specialized knowledge of this property outside of what is contained in this report.
Commonly Known or Reasonably Ascertainable Information	The user provided no commonly known or reasonably ascertainable information available within the local community about the subject property that is material to recognized environmental conditions in connection with the property.
Valuation Reduction for Environmental Issues	No property valuation reduction related to environmental issues or concerns was reported by the user.
Owner, Property Manager, and Occupant Information	No written or verbal communication with the property owner, manager and/or occupant revealed any information which suggested that there are currently or historically any recognized environmental conditions associated with the subject property not noted in this assessment.
Reason for Performing Phase I	Potential property transaction
Other	No modifications to the ASTM E1527-13 standard scope-of-services were requested by the user for special circumstances that might be encountered at the subject property. Any additional user requested scope of services are discussed in Section 7.0.

Failure to provide the above information could result in a determination that 'all appropriate inquiries' are not complete. Additional items should be collected, if available, and provided to AGI.

3.0. RECORDS REVIEW

The purpose of obtaining and reviewing subject property and site vicinity historical, physical setting and regulatory records is to help identify *recognized environmental conditions* in connection with the subject property.

3.1. HISTORICAL USE INFORMATION

The objective of consulting historical sources for a Phase I is to develop a history of previous uses of the property and surrounding area to help identify the likelihood of past uses having led to recognized environmental conditions with respect to the property. All obvious uses shall be identified from the present to the property's first obvious developed use, or back to 1940, whichever is earlier. Review of standard sources at less than five year intervals is not required.

3.1.1. Historical Use Information on Subject Property

Subject property history was researched by reviewing historical Sanborn Fire Insurance Maps (no coverage), aerial photographs, topographic maps, telephone directory information, the San Joaquin Building Department records, and the San Joaquin County Assessor's Office records.

Based on a review of historical documents, the property was vacant until 1957 when a single family residence was built on the southwest corner of the property. The residence was demolished in 1975. The property is currently vacant rural grassland.

In summary, review of the historical documents revealed no features on the subject property of environmental concern. Representative historical records are provided within Appendix B.

3.1.1.1. Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas but are now utilized as a valuable source of historical and environmental risk information. EDR owns the largest collection of Sanborn Fire Insurance Maps. AGI requested EDR to provide any Sanborn Fire Insurance Maps that might cover the subject property. Sanborn map coverage was not available for the subject property.

3.1.1.2. Aerial Photographs

AGI reviewed aerial photographs of the subject property and surrounding area that were provided by EDR as well reviewed online (Google Earth) for the years1937, 1940, 1957, 1963, 1968, 1975, 1982, 1993, 2006, 2009, 2012 and 2016. The following is a summary of our review of the aerial photographs:

Year(s)	Subject Property	Surrounding Area
1937, 1940	The subject property is vacant agricultural land. No structures occupy the property.	The surrounding area is also vacant rural land. To the east is agricultural land. To the south Manila Road is present.
1957, 1963, 1975	A single family residence has been built on the southwest corner of the subject property. The remainder of the property is agricultural land.	The surrounding adjacent properties are also agricultural land. Few single family residences are present along Manila Road to the southwest.
1982, 1993, 2006, 2009, 2012, 2016	The single family residence has been removed from the property. The subject property is now vacant rural grassland.	The surrounding adjacent properties are also vacant rural grasslands.

A review of historical aerial photographs did not reveal any items of environmental concern in connection with the subject property, except for the use as agricultural land from 1937 to 1975.

3.1.1.3. Historical Topographic Maps

AGI reviewed historical topographic maps of the subject property and surrounding area that were supplied by EDR for the years 1915 1952, 1968, 1976, 1987, 1994, 1996 and 2012. The following is a summary of our review of the topographic maps:

Year(s)	Subject Property	Surrounding Area
1915	The subject property is vacant land with no buildings or structures on the property.	The surrounding adjacent properties are also vacant undeveloped land. Manila Road is a dirt road to the south.
1952	The subject property remains vacant land. A water well is located centrally on the west boundary of the property.	The surrounding area remains vacant land. To the southwest corner of the property, two small residences have been built.
1968, 1976	A building is depicted on the southwest corner of the property. The remainder of the property is mapped as vacant land.	The surrounding adjacent properties remain the same to previous years as vacant land.
1987, 1994, 1996, 2012	The single family residence on the southwest corner is not depicted. The water well in the center west boundary remains there. The rest of the subject property remains vacant undeveloped land.	The surrounding adjacent properties remain the same to previous years as vacant land.

A review of historical topographic maps did not reveal any items of environmental concern in connection with the subject property.

3.1.1.4. Street Directories

AGI requested that EDR provide a review of city and street directories to determine the occupancy history of the property for the years 1974 and 1971. The following is a summary of the city directory search:

Year(s)	Directory Listing Summary
1974	Aquino Caridad
1971	Torraoo Antonio

A review of historical telephone directory listings of the subject property address did not reveal any items of environmental concern.

3.1.1.5. Building Department Records

A review of San Joaquin County records is summarized in the following table:

Address	Year(s)	Summary
169 Manila Road	1978	Permit for a new water well for irrigation purposes.
169 Manila Road	1978	Permit for turbine pump for new well.

A review of historical public building of the subject property address did not reveal any items of environmental concern.

3.1.1.6. Assessor's Records

San Joaquin County Assessor's records were not review in time for the publication date of this report.

3.1.1.7. Previous Phase I and II Environmental Site Assessments

No previous Phase I or II Environmental Site Assessments were provided to AGI by the user and/or property owner during the course of this Phase I.

3.1.2. Historical Use Information on Adjoining Properties

Historical use of immediately adjoining properties was vacant rural and agricultural land.

Historical uses of adjoining properties do not appear to be of environmental concern to the subject property.

3.2. PHYSICAL SETTING

Geology	The subject property is situated within the Great Valley Geomorphic Province of California, an elongate, northwest trending structural trough running 400 miles through Central California. The Great Valley is bound to the north by the Klamath Mountains, the south by the Tehachapi Mountains, the east by the Sierra Nevada Mountains, and the west by the Coast Ranges. Approximately 32,000 feet of marine and continental sediment have been deposited almost continuously since the Jurassic. The northern and southern regions of the Great Valley are designated the Sacramento and San Joaquin Valleys, respectively. The subject property is located within the San Joaquin Valley.
Hydrology	The subject property and surrounding area lie within the San Joaquin Valley Groundwater Basin, Eastern San Joaquin Subbasin (5-22.01). The subbasin is bound on the south, southwest and west by the Modesto, Delta-Mendota, and Tracy Subbasins, respectively, and on the northwest and north by the Solano, South American, and Cosumnes Subbasins. The Solano and South American are subbasins of the Sacramento Valley Groundwater Basin. The Eastern San Joaquin Subbasin is drained by the San Joaquin River and several of its major tributaries namely, the Stanislaus, and Calaveras, and Mokelumne Rivers. The San Joaquin River flows northward into the Sacramento and San Joaquin Delta and discharged into the San Francisco Bay. Annual precipitation within the subbasin ranges from about 11 inches in the southwest to about 25 inches in the northeast. Groundwater information collected from the State of California Geotracker database

Hydrology	at a site located approximately 2,000-feet northeast of the property indicates that groundwater is found at an approximate depth between 3 and 12 feet below surface grade and flows to the northwest.
Topography	The property is located at an elevation of approximately 15 feet above mean sea level (MSL), in an area of low topographic relief. Regional slope of the area is toward the general west.
Surface Soils	EDR provides a report listing dominant soil composition in the general area of the subject property based on information from the United States Department of Agriculture's Soil Conservation Service STATSGO (State Soil Geographic Database) soil maps. Soil surface texture at the subject property consists of soil identified as Manteca, a fine sandy loam in the Class C Hydrogeologic Group which includes slow infiltration rates. Corrosion potential of this soil for uncoated steel is high.
Surface Water Features	There are no surface water features on the subject property. The nearest surface water feature in the vicinity of the subject property is the San Joaquin River, located approximately 1-mile west of the subject property.
Flood Zone	The EDR database report shows that the subject property is not located within either a Special Flood Zone Hazard Area (1%) or a 0.2% Annual Chance Flood Zone. This data, available in select counties across the country, was obtained by EDR from the Federal Emergency Management Agency (FEMA) which has maps depicting FEMA-defined flood zones.
Wetlands	The EDR database report shows that the subject property is not located within the National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

3.3. STANDARD ENVIRONMENTAL RECORD SOURCES

A computer search of federal, state and regional regulatory agency databases was performed by Environmental Data Resources Inc. (EDR), a data retrieval company, to identify and locate properties in areas of concern that have been reported as sites known or suspected to contain underground storage tanks, or to have been the scene of hazardous materials spills. Additionally, sites permitted to manufacture, utilize, generate, store, treat or dispose of hazardous materials and/or hazardous wastes are identified and located. A list and description of databases investigated, in compliance with ASTM E1527-13 and USEPA AAI, is included in EDR Report provided in Appendix C.

3.3.1. SUBJECT PROPERTY DATABASE SEARCH

The property address 169 Manila Road, Lathrop, California, was not listed on any governmental databases within the EDR Report.

3.3.2. SITE VICINITY DATABASE SEARCH

Sites with recognized environmental conditions surrounding the subject property are typically of concern to the subject property when they are located in an up-gradient direction from the property with respect to the ground water flow direction. Typically, groundwater would represent the migration medium for contaminants over significant distances. Sites located in equi-gradient or down-gradient directions from the subject property are less likely to impact the subject property.

AGI retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix C. The following information was obtained:

Regulatory Agency Database	Appropriate Minimum Search Distance (AMSD)	Number of Sites within AMSD
National Priority List	1	1
Proposed National Priority List Sites	1	0
Federal Superfund Liens	1	0
National Priority List Deletions	1	0
Corrective Action Report	1	1
RCRA - Treatment, Storage and Disposal	0.5	0
RCRA - Large Quantity Generators	0.25	1
RCRA - Small Quantity Generators	0.25	0
Engineering Controls Sites List	0.5	0
Emergency Response Notification System	0.001	0
Land Use Control Information System	0.5	0
Superfund Enterprise Management System	0.5	0
Institutional Controls Sites List	0.5	0
Superfund Enterprise Management System Archive	0.5	0
Federal Facility Site Information listing	0.5	0
RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)	0.25	0
Underground Storage Tank Listing	0.25	0
Solid Waste Information System	0.5	0
Leaking Underground Fuel Tank Report (GEOTRACKER)	0.5	1
Active UST Facilities	0.25	2
Aboveground Petroleum Storage Tank Facilities	0.25	1
Voluntary Cleanup Program Properties	0.5	0
Considered Brownfieds Sites Listing	0.5	0
Environmental Case Listing	0.5	0
EnviroStor Database	1	5
HIST LUST - Fuel Leak Site Activity Report	0.5	0
Contaminated Sites	0.5	0
State Response Sites	1	0
Toxic Site Clean-Up List	0.5	0
Statewide SLIC Cases (GEOTRACKER)	0.5	0
Leaking Underground Storage Tanks on Indian Land	0.5	0
Underground Storage Tanks on Indian Land	0.25	0
Voluntary Cleanup Priority Listing	0.5	0

AGI's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, AGI considered the following:

- The type of database on which the site is identified;
- The topographic position of the identified site relative to the subject property;

- The direction and distance of the identified site from the subject property;
- Local soil conditions in the subject property area;
- The known or inferred groundwater flow direction in the subject property area;
- The status of the respective regulatory agency-required investigation(s) of the identified site (if any); and
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes and ditches located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria and based on a review of readily available information contained within the regulatory database report, AGI did not identify adjacent or nearby sites (e.g. within ¼-mile radius) listed on the regulatory database report that were judged to present a potential environmental risk to the subject property with the exception of the following:

Site	Distance	Direction	Database(s) & Summary	Environmental Concern
Beneto Inc.	1838 feet	Northeast, up gradient.	LUST, CORTESE, CERS: Leaking underground storage tank with diesel. Case closed in 2007 and issued a closure no further action letter.	None based on distance and regulatory status.
Sharpe Army Depot	3340 feet	East, up gradient	NPL, SEMS, CORRACTS, RCRA, US ENG CONTROLS, US INST CONTOLS, HIST UST, RCRA NON-GEN, ROD: The site operated as an Army Depot in the 1980's. US Army maintenance facility produced waste products that affected groundwater conditions.	None based on distance and regulatory status.

3.4. ADDITIONAL ENVIRONMENTAL AGENCY RECORD SOURCES

In addition to the EDR computer search of federal, state and regional regulatory agency databases, AGI contacted appropriate regulatory agencies to review records regarding the property and surrounding sites identified as having recognized environmental conditions that have the potential to impact the subject property based on ground water flow direction, distance from the subject property and nature of the releases causing the environmental condition.

Additional agency searches include the following:

- San Joaquin County Environmental Health Department (SJCEHD) and the Central Valley Regional Water Quality Control Board (Regional Board) maintain records of industrial violations for this area and are the lead agencies for the enforcement of the State Underground Storage Tank and Hazardous Waste Laws for San Joaquin County. AGI requested to review any files that were available.
- The Regional Board also maintains and online computer database, GeoTracker, that provides listings of closed and active sites related to unauthorized releases

of hydrocarbons as well as solvents, metals, and other materials. For listed sites, online reports are commonly available. AGI reviewed the GeoTracker database for information that may be available for the subject property or surrounding sites.

- The California Department of Toxic Substances Control (DTSC) is the State of California agency responsible for oversight of hazardous waste regulations, cleanup of existing contamination, pollution prevention and reduction in hazardous waste and toxic materials and identification of potential new pollutants. The DTSC maintains the EnviroStor Data Management System (ENVIROSTOR) which allows for the search for information on investigation, cleanup, permitting and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. AGI reviewed the ENVIROSTOR database for any information that may be available.

- The United States Environmental Protection Agency (USEPA) provides an online computer database, ENVIROFACTS, providing lists of sites listed on multiple USEPA databases. AGI reviewed the ENVIROFACTS database for any information that may be available.

- The San Joaquin Valley Air Pollution Control District (SJVAPCD) is the air district for the counties of San Joaquin, Stanislaus, Merced, Fresno, Kings, Tulare and Lathrop. AGI contacted the SJVAPCD for any information available.

- The Geologic Energy Management Division's (CalGEM) online mapping application presents California's oil and gas industry information from the geographic perspective. AGI reviewed the CalGEM Well Finder database for information that may be available for the subject property or surrounding sites.

3.4.1. Additional Subject Property Record Sources

The subject property address was searched on the following record sources:

SOURCE	SUMMARY
Regional Board & GeoTracker database	Property address was not listed on the GeoTracker database and did not have any records on-file with the Regional Board.
DTSC & ENVIROSTOR database	Property address was not listed on the ENVIROSTOR database and did not have any records on-file with the DTSC.
USEPA ENVIROFACTS	Property address was not listed on the ENVIROFACTs database.
SJAVPQCD	Property address was not identified as having records on-file with the San Joaquin Valley Air Pollution Quality Control District (SJVAPQCD).
SCEHD	Property address was not identified as having records on-file with the San Joaquin County Environmental Health Department SCEHD.
CalGEM	According to the CalGEM Well Finder website, no oil and/or gas wells are located in the vicinity of the subject property.

3.4.2. Additional Site Vicinity Record Sources

The SJCEHD and Regional Board maintain records for, and are responsible for, enforcement of state UST and hazardous waste laws. AGI commonly reviews files for up-gradient sites under active environmental regulation to ascertain the current site status and its potential to impact the subject property. No sites, under active or past environmental regulation, were identified by the database search within the required search radius of potential concern to the property.

3.5. PROVIDED SUBJECT PROPERTY RECORDS

No records were provided to AGI by the user and/or property owner during the course of this Phase I.

3.6. VOLATILE ORGANIC COMPOUND VAPOR ENCROACHMENT

The encroachment of hydrocarbon and volatile organic compound (VOC) vapors into soil pore space occurs when organic chemicals migrate from contaminated groundwater or soil into the airspace between soil particles. Some typical organics involved are petroleum based or chlorinated solvents (e.g, BTEX and dry cleaning chemicals). They may have leaked into the groundwater and/or soil from underground storage tanks, or buried waste, or from disposal in septic systems.

In compliance with ASTM Standard E2600-15 (Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions), AGI evaluated the potential for a Vapor Encroachment Condition (VEC) at the subject property. Based on a VEC screening, it was determined that 'a VEC does not exist' at the property. A copy of the AGI-generated Tier 1 VEC screening form is provided within Appendix E.

4.0. SITE RECONNAISSANCE

A subject property site reconnaissance was conducted by an AGI representative on 19 April 2021. At the time of the site visit the weather was clear and warm. Primary features of the property are shown in a site plan provided in Figure 2. Photographs of selected features of the subject site are included in Appendix A.

4.1. METHODOLOGY AND LIMITING CONDITIONS

The property was fully accessible during the site reconnaissance. No limiting conditions were noted.

4.2. GENERAL SITE SETTING

The following is a description of the primary features of the subject property observed at the time of the site visit:

- The subject property is located approximately 775 feet northwest of the intersection of Manila Road and Matheny Road, in a rural area near Lathrop, California. The subject property is comprised of one parcel (APN 191-250-060) totaling 10.3 acres.
- The subject property is undeveloped and entirely covered by grass vegetation.
- An abandoned water well was observed in the southeast corner of subject property.

The following is a description of the property improvements:

Structures	No building structures were observed on the subject property.
Adjoining / Access / Egress Roads	There are no drive-way entrances to the subject property. Access to the subject property is through a dirt access road located on the north side of the subject property.
Surface Types	All areas of the subject property were covered by grass vegetation.
Additional Features	An abandoned water well was located in the southeast corner of the subject property
Surface Water	No surface water features are located on the subject property.

At the time of the site reconnaissance, current uses of adjacent properties included the following:

North	Dirt access road followed by a tree orchard.
South	Manila Road followed by a tree orchard.
East	Grass field or vacant dirt field followed by rural residential building structures.
West	A grass field is located west of the subject property. Rural residential buildings are located toward the southwest.

Current uses of the adjoining properties do not appear to be of potential environmental concern to the subject property.

4.3. EXTERIOR AND INTERIOR OBSERVATIONS

The following was observed at the time of the property reconnaissance:

OBSERVED	CONDITION OBSERVED ON/AT SUBJECT PROPERTY
No	Pits, ponds or lagoons with respect to waste treatment or disposal
No	Stained soil or pavement, patched pavement
No	Stressed vegetation (from causes other than insufficient water)
No	Fill dirt from unknown source, or contaminated source
Yes	Solid waste (mounds or depressions suggesting waste disposal) *At least one wood debris pile, abandoned wood crates, and tires were observed in west section of subject property.*
No	Waste water / storm water discharged into a drain, ditch or stream
Yes	Wells (abandoned, irrigation, domestic, monitoring or oil and gas) - One abandoned water well was observed at southeast corner of subject property.
No	Dry wells
No	Septic systems or cesspools
No	Movement of hazardous materials to adjacent properties
No	Hazardous substances and/or petroleum products
No	Above-ground storage tanks (ASTs) for storage of petroleum products and/or hazardous substances
No	Underground storage tanks (USTs) for storage of petroleum products and/or hazardous substances
No	Strong, pungent or noxious odors
No	Pools of liquid (other than water)
Yes	55-gallon drum or large sack storage *One empty, abandoned 55-gallon drum was observed in west section of subject property*.
No	Unidentified substance containers
No	Stains and/or corrosion on floors, walls or ceiling (except water)
No	Drains and sumps
No	Oil-water separator/clarifier
No	Electrical or hydraulic equipment known to contain PCBs
No	Obvious signs of possible ACMs
No	Obvious signs of mold
No	Other areas of environmental concern

5.0. MATERIAL STORAGE

Except for one empty 55-gallon drum, no current or historic containers, storage vessels, and containment systems (e.g., clarifiers, oil/water separators, vaults, frac ponds, tanks, drums, storage lockers, silos) of 55 gallons or more for individual containers, or 100 gallons in aggregate for smaller containers, were observed on the subject property or have been historically utilized on the property.

6.0. INTERVIEWS

No Interviews were performed during the course of this Phase I.

Interviewee	Interview Summary
Property Owner	The property owner was not interviewed during the course of this Phase 1.
Site Manager	The property site manager was not interviewed during the course of this Phase I.
Property Occupant(s)	Property occupants were not interviewed during the course of this Phase I.
Local Government Officials	With the exception of file review requests, no local government officials were interviewed during the course of this Phase I.
Others	No additional interviews were performed during the course of this Phase I.

ASTM-compliant interview/questionnaire documentation is provided as Appendix D.

7.0. BUSINESS ENVIRONMENTAL RISKS - NON-ASTM SERVICES

Additional environmental considerations beyond the scope of the standard ASTM practice that have the potential to pose business environmental risks are discussed below.

7.1. MOLD

Molds are part of the natural environment. Outdoors, molds play a part in nature by breaking down dead organic matter such as fallen leaves and dead trees, but indoors, mold growth should be avoided. Molds reproduce by means of tiny spores; the spores are invisible to the naked eye and float through outdoor and indoor air. Mold may begin growing indoors when mold spores land on surfaces that are wet. There are many types of mold, and none of them will grow without water or moisture.

Molds are usually not a problem indoors, unless mold spores land on a wet or damp spot and begin growing. Molds have the potential to cause health problems. Molds produce allergens (substances that can cause allergic reactions), irritants, and in some cases, potentially toxic substances (mycotoxins).

At the time of the property reconnaissance, no structures or buildings were present on the property making the presence of mold unlikely.

7.2. ASBESTOS CONTAINING BUILDING MATERIALS

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos has been used for a wide range of manufactured goods, mostly in building materials (roofing shingles, ceiling and floor tiles, paper products, and asbestos cement products), friction products (automobile

clutch, brake, and transmission parts), heat-resistant fabrics, packaging, gaskets, and coatings.

Prior to the late 1970s, building products and insulation materials commonly contained asbestos. In 1989, the USEPA banned all new uses of asbestos; however, uses developed before 1989 are still allowed. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems.

At the time of the property reconnaissance, no structures or buildings were present on the property making the presence of asbestos unlikely.

7.3. LEAD-BASED PAINT

Lead is a toxic metal that was used for many years in products found in and around our homes. Lead-based paint (LBP) was used extensively in buildings constructed before 1950. In 1978, LBP was banned by the federal government. Lead may cause a range of health defects, from behavioral problems and learning disabilities, to seizures and death.

At the time of the property reconnaissance, no structures or buildings were present on the property making the presence of LBP-coated materials unlikely.

7.4. RADON

Radon is a naturally occurring, colorless, odorless gas that is soluble in water. It is produced through the radioactive decay of uranium and radium, which is naturally present in soil and in minerals in bedrock. Radon is radioactive, which means that it breaks down or decays to form other elements. Radon concentrations generally differ among different rock types and can vary considerably within the same geologic formation. Radon moves from its source in rocks and soils through voids and fractures. It can enter buildings as a gas through foundation cracks or it can dissolve in ground water and be carried to buildings through the use of water-supply wells. Buildings with basements and concrete slab foundations are more susceptible to elevated levels of indoor radon gas. The inhalation of radon gas can cause damage to lung tissue.

A common unit of radioactivity measurement is picocuries per liter (pCi/L). The USEPA established the recommended safe radon level at 4 pCi/L. According to the USEPA, San Joaquin County, is in a low radon potential area (Zone 3), defined as having a ‘predicted average indoor radon screening level of less than 2 pCi/L'.

7.5. WETLANDS

As reported in Section 3.2., according to the EDR Report (Appendix C) the subject property is not located within a National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR from the U.S. Fish and Wildlife Service.

7.6. REGULATORY COMPLIANCE

AGI searched the subject property address, 169 Manila Road, Lathrop, California, on local, state and federal databases. No records were found regarding any outstanding regulatory permitting or requirements/directives in connection with the property.

8.0. EVALUATION

Any deviations from the ASTM Standard Practice 1527E-13 and USEPA AAI are presented below, along with the findings, conclusions, and opinions identified during the course of this Phase I.

8.1. DATA GAPS AND LIMITATIONS

A data gap occurs when a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance, and interviews. The following data gaps and/or limitations were identified during the course of this Phase I, which may deviate from the ASTM standard practice:

- The largest data gap in research was 22 years, between 1915 and 1937, with the earliest researched information being a Topographic Map dated in 1915. Data gaps generally do not exceed six years between 1940 through the present, except between 1940 and 1952. AGI does not believe any gaps in the data reviewed have affected the ability to identify recognized environmental concerns.
- Owner-privileged (non-public) San Joaquin County Assessor's records were not reviewed during the course of this Phase I. The property owner's permission could not be obtained within the time frame of this assessment. AGI does not consider this data gap significant.

8.2. FINDINGS

Based on the standards set by ASTM Practice E1527-13, the following findings are differentiated below as Business Environmental Risk (including the presence of asbestos-containing materials, lead-based paint, mold or moisture conditions, or non-hazardous regulated materials may constitute a Business Environmental Risk), *de minimis* conditions unlikely to be subject to government enforcement, HRECs, CRECs and RECs, as defined in Section 1.1. of this report.

8.2.1. Business Environmental Risk

This assessment has revealed no evidence of potential Business Environmental Risks in connection with the subject property with the exception of the abandoned water well. If the well will not be rehabilitated for future use, the well should be destroyed under permit.

8.2.2. De Minimis Conditions

This assessment revealed no evidence of potential or *de minimis* conditions in connection with the subject property.

8.2.3. Historical Recognized Environmental Conditions

This assessment has revealed no evidence of HRECs in connection with the subject property.

8.2.4. Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of CRECs in connection with the subject property.

8.2.5. Recognized Environmental Conditions

This assessment has revealed no evidence of RECs in connection with the subject property.

8.2.6 Other Potential Environmental Issues

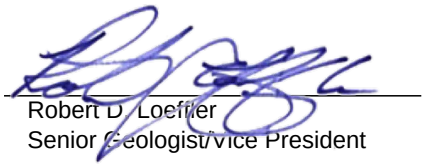
This assessment has revealed no evidence of other potential environmental issues in connection with the subject property.

9.0. CONCLUSIONS AND OPINION

AGI has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E1527-13, US-EPA AAI for the property located at 169 Manila Road, Lathrop, California. Any exceptions to, or deletions from, this practice or scope of work are described in Section 8.1. of this report or presented as non-ASTM services in Section 7.0. It is the opinion of the environmental professionals that the findings and conclusions presented in this report are reasonable and prudent, given the evidence as presented. This assessment has revealed no evidence of RECs in connection with the property. AGI has no recommendations for additional environmental investigations of the subject property.

10.0. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Robert D. Loeffler
Senior Geologist/Vice President

11.0. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Qualifications of the environmental professionals involved in the preparation of this Phase I are included in Appendix F.

12.0. REFERENCES

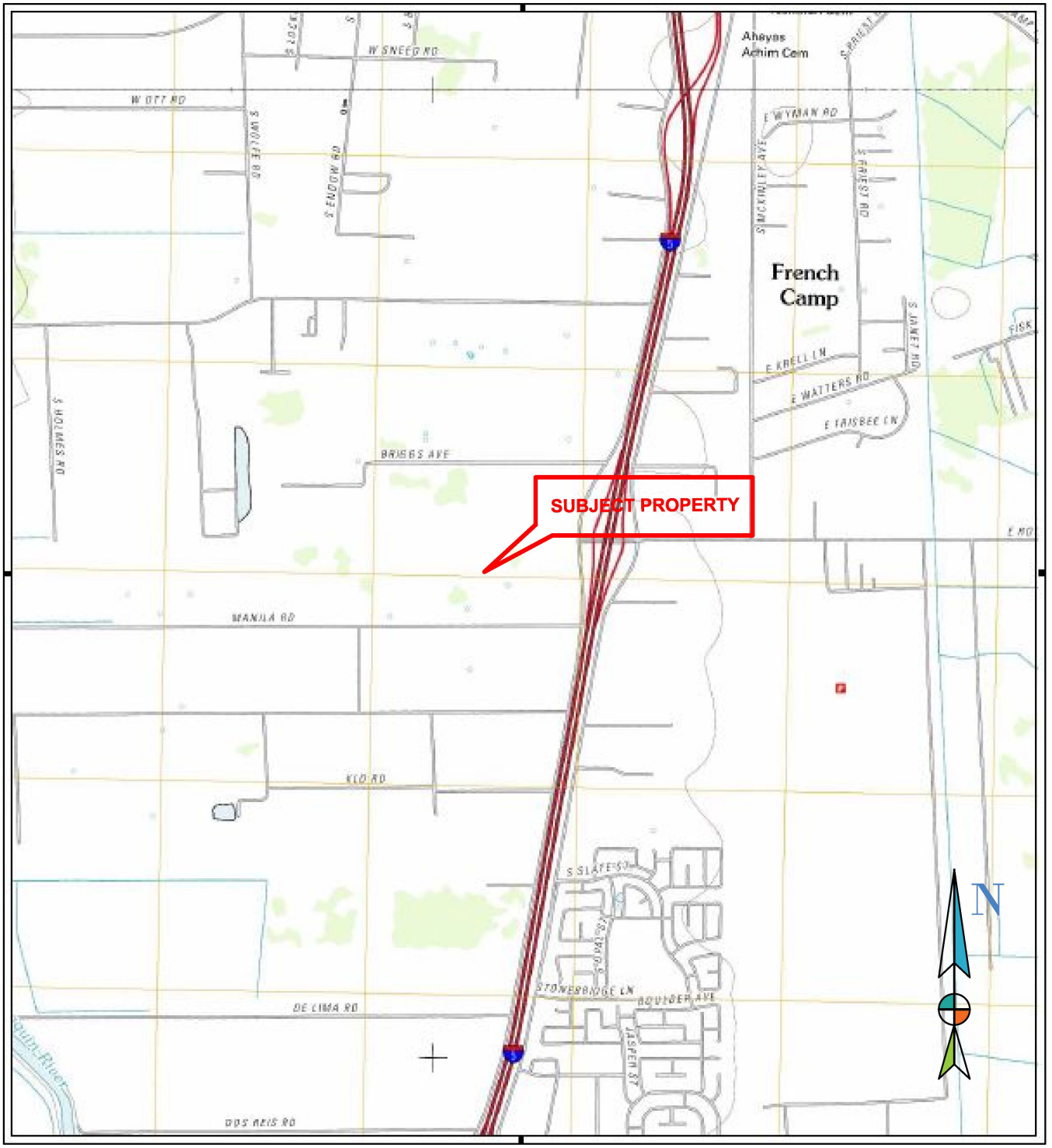
The following documents, maps or other publications may have been utilized during the preparation of this Phase I:

- ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, 2013.
- California Department of Water Resources (DWR), Groundwater Basins in California, Version 3.0., 2003.
- Environmental Data Resources Inc. (EDR)-prepared: The EDR Radius Map, The EDR-City Directory Abstract, Certified SanbornÂ® Map Report, EDR Historical Topographic Map Report, EDR Historical Aerial Photograph Report.

The following websites may have been accessed to obtain information during the preparation of this Phase I:

- California State Water Resource Control Board's GeoTracker website: http://geotracker.swrcb.ca.gov/
- California Geological Survey — Note 36: California Geomorphic Provinces: http://www.conservation.ca.gov/cgs/information/publications/cgs_notes/note_36/Documents/note_36.pdf
- California Department of Water Resources website: http://www.cd.water.ca.gov/
- DTSC's ENVIROSTOR website: www.envirostor.dtsc.ca.gov/public
- DTSC's HWTS website: http://www.hwts.dtsc.ca.gov/
- FEMA's website: www.fema.gov/
- ParcelQuest by CD-DATA online download: www.parcelquest.com
- USEPA's Envirofacts website: www.epa.gov/enviro
- USEPA's radon information website: www.epa.gov/radon/zonemap.html#mapcolors
- USEPA's lead information website: www.epa.gov/lead/
- USEPA's asbestos information website: www.epa.gov/asbestos/
- USEPA's mold information website: www.epa.gov/mold/moldguide.html
- The Geologic Energy Management Division (CalGEM) Well Finder: https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx

Figures



Lathrop, California
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

0 2,000 4,000
APPROXIMATE SCALE IN FEET

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

LOCATION MAP

Bacay Property
169 Manila Road
Lathrop, California

DATE:	April 2021
FILE:	LOCATION
DRAWN BY:	JJH
PROJECT NO.	21.6398
FIGURE:	1

LEGEND

— — : Approximate property boundary

N

*Base map from Google Earth

AdvancedGeo
An Employee-Owned Company
www.advancedgeo.biz
(800) 511-9300

SITE PLAN

Bacay Property
169 Manila Road
Lathrop, California

DATE:	April 2021
FILE:	SP
DRAWN BY:	JJH
PROJECT NO.	21.6398
FIGURE:	2

Appendix A -

Photographs of the Subject Property

1 : Photograph of subject property (SP) at a distance of approximately 300 feet from Manila Road. View is looking toward the north and depicts the southwest section of SP in the background.

2 : Photograph of south section of subject property (SP). View is looking toward the east along the southern property boundary and depicts a grass field on SP and vacant field immediately south of SP.

3 : Photograph of southwest corner section of subject property (SP). View is looking toward the north along the western property boundary and depicts electric utility poles and a grass field on SP

4 : Photograph of west section of subject property (SP). View is looking toward the south and depicts abandoned wood crates partially filled with various debris.

5 : Photograph of west section of subject property (SP). View is looking toward the north and depicts abandoned, tires and wood crates partially filled with various debris.

6 : Photograph of west section of subject property (SP). View is looking toward the east and depicts pile of abandoned irrigation tubing and plastic sheeting.

7 : Photograph of west section of subject property (SP). View is looking toward the north and depicts abandoned and empty 55 gallon drum.

8 : Photograph of northwest section of subject property (SP). View is looking toward the east along the north property boundary and depicts a dirt access road, followed by a tree orchard further north.

9 : Photograph of northwest section of subject property (SP). View is looking toward the southeast and depicts grass field on SP. Background depicts rural residential buildings further southeast.

10 : Photograph of northeast section of subject property (SP). View is looking toward the south along the east property boundary and depicts the east property fence line.

11 : Photograph of from east section of subject property (SP). View is looking toward the west and depicts a grass field on SP. Background depicts agricultural fields and tree orchards further west-northwest.

12 : Photograph of from east section of subject property (SP). View is looking toward the east and depicts a grass field on the adjacent property to east, followed by rural residential buildings. Highway 5 is seen further east.

13 : Photograph of from east section of subject property (SP). View is looking toward the east and depicts a vacant dirt field on the adjacent property to east, followed by rural residential buildings. Highway 5 is seen further east

14 : Photograph of abandoned water well located in southeast corner of subject property.

15 : Photograph of abandoned water well located in southeast corner of subject property.

16 : Photograph of electric service to abandoned water well located in southeast corner of subject property.

17 : Photograph of abandoned water well and electric service meter located in southeast corner of subject property.

18 : Photograph of wood debris pile located in west section of subject property.

APPENDIX C

Regulatory Records Documentation (with EDR Database)

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road
Lathrop, CA 95330

Inquiry Number: 7273084.2s
March 08, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

11293 SOUTH MANTHEY ROAD AND 169 MANILA ROAD
LATHROP, CA 95330

COORDINATES

Latitude (North):	37.8548020 - 37ˆ 51' 17.28''
Longitude (West):	121.2852290 - 121ˆ 17' 6.82''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	650858.1
UTM Y (Meters):	4190885.5
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12008720 LATHROP, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140628
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
11293 SOUTH MANTHEY ROAD AND 169 MANILA ROAD
LATHROP, CA 95330

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	GURDIP KELLY	11293 S MANTHEY RD	HAZNET, HWTS		TP
Reg	DEFENSE DISTRIBUTION	700 E ROTH RD	NPL, SEMS, CORRACTS, RCRA-TSDF, US ENG CONTROLS,..	Same	1916, 0.363, East
A2	B & G GROUP INC DBA	116 E ROTH RD	RCRA NonGen / NLR	Higher	792, 0.150, East
A3	DIAMOND PET FOODS	250 E ROTH RD	RCRA NonGen / NLR	Higher	830, 0.157, East
A4	MOORMAN MFG CO OF CA	250 E ROTH DR	SWEEPS UST, HIST UST, EMI	Higher	830, 0.157, East
A5	DIAMOND PET FOOD	250 E ROTH RD	CERS HAZ WASTE, CERS	Higher	830, 0.157, East
A6	MOORMAN MANUFACTURIN	250 E ROTH RD	HIST UST, EMI	Higher	830, 0.157, East
A7	DIAMOND PET FOOD	250 E ROTH RD	UST	Higher	830, 0.157, East
B8	KENWORTH OF CENTRAL	10998 S HARLAN	AST	Higher	872, 0.165, ENE
B9	BENETO TANK LINE	10998 HARLAN RD	UST	Higher	872, 0.165, ENE
B10	PAP+ TRUCKS INC.	10998 S HARLAN RD	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS, HWTS	Higher	872, 0.165, ENE
B11	BENETO TANK LINE	10998 S HARLAN RD	UST	Higher	872, 0.165, ENE
B12	PAP TRUCKS, INC.	10998 S HARLAN RD	RCRA NonGen / NLR	Higher	872, 0.165, ENE
B13	PAP TRUCKS, INC.	10998 S HARLAN RD	AST	Higher	872, 0.165, ENE
A14	FLYING J TRAVEL CENT	345 E ROTH RD	CERS HAZ WASTE, CERS TANKS, CERS	Higher	905, 0.171, ENE
A15	PILOT TRAVEL CENTER	345 E ROTH RD	UST	Higher	905, 0.171, ENE
A16	JB HUNT	345 ROTH RD	RCRA NonGen / NLR	Higher	905, 0.171, ENE
A17	FLYING J TRAVEL CENT	345 E ROTH RD	UST	Higher	905, 0.171, ENE
C18	UPS LATHROP HUB	11800 S HARLAN RD	UST	Higher	974, 0.184, SSE
C19	UPS LATHROP HUB	11800 S HARLAN RD	CERS HAZ WASTE, CERS TANKS, CERS	Higher	974, 0.184, SSE
C20	UPS - LATHROP HUB	11800 HARLAN ROAD	RCRA-LQG	Higher	974, 0.184, SSE
C21	SAN LORENZO LUMBER C	11800 S HARLAN	AST	Higher	974, 0.184, SSE
C22	BRANSON CROSS LUMBER	11800 S HARLAN ROAD	SWEEPS UST, EMI, HAZNET, HWTS	Higher	974, 0.184, SSE
A23	FAST LANE CENTRAL VA	116 ROTH RD	UST	Higher	996, 0.189, East
A24	FAST LANE CENTRAL VA	116 ROTH RD	CERS HAZ WASTE, CERS TANKS, CERS	Higher	996, 0.189, East
D25	STAURTS NURSERY	10936 S HARLEN RD	RCRA-SQG, FINDS, ECHO	Higher	1043, 0.198, NE
E26	BOBSTER INC	10855 S HARLAN RD	RCRA NonGen / NLR	Higher	1208, 0.229, NE
D27	KAG WEST	10852 S HARLAN RD	RCRA NonGen / NLR	Higher	1209, 0.229, NE
D28	DEMAR TRANSPORTATION	10850 S HARLAN RD	RCRA NonGen / NLR	Higher	1213, 0.230, NE
D29	JOHN R LAWSON ROCK &	10848 S HARLAN RD	RCRA NonGen / NLR	Higher	1218, 0.231, NE
D30	JOHN R LAWSON ROCK &	10848 S HARLAN	CERS HAZ WASTE, CERS	Higher	1218, 0.231, NE
31	JASBAR SINGH FARM	235 BRIGGS RD	UST	Higher	1238, 0.234, North
D32	BENETO TANK LINES	10842 HARLAN RD	UST	Higher	1241, 0.235, NE
D33	RAMOS OIL-FRENCH CAM	10842 S HARLAN RD	UST	Higher	1241, 0.235, NE
D34	RAMOS OIL FRENCH CAM	10842 S HARLAN RD	RCRA NonGen / NLR	Higher	1241, 0.235, NE
D35	BENETO INC.	10842 HARLAN	LUST, Cortese, CERS	Higher	1241, 0.235, NE
D36	RAMOS OIL-FRENCH CAM	10842 S HARLAN RD	CERS HAZ WASTE, CERS TANKS, CERS	Higher	1241, 0.235, NE
F37	BYRON PETERS	235 BRIGGS AVE	HIST UST	Higher	1286, 0.244, NNW
F38	GYRON PETERS	235 W BRIGGS AVE	HIST UST	Higher	1286, 0.244, NNW

MAPPED SITES SUMMARY

Target Property Address:
11293 SOUTH MANTHEY ROAD AND 169 MANILA ROAD
LATHROP, CA 95330

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
E39	DEMAR TRANSPORTATION	37.858354/-121.28075	PFAS ECHO	Higher	1289, 0.244, NE
40	LATHROP QUINONES ARM	400 EAST ROTH ROAD	ENVIROSTOR	Higher	2106, 0.399, East
41	4TH HIGH SCHOOL/WEST	FRENCH CAMP ROAD/WOL	ENVIROSTOR, SCH	Lower	2232, 0.423, SSW
42	GRANITE CONSTRUCTION	10500 HARLAN	LUST, Cortese, EMI, HIST CORTESE, CERS	Higher	2560, 0.485, NNE
43	H & M TRANSPORT INC	707 E ROTH RD	ENVIROSTOR, HIST UST, NPDES, CIWQS, CERS	Higher	4142, 0.784, East
44	VERNER PARCELS C&D	HARLAN ROAD AND SQUI	ENVIROSTOR, DEED	Higher	4262, 0.807, South
45	AGRI-FEEDS INC	755 E ROTH RD	ENVIROSTOR	Higher	4422, 0.837, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GURDIP KELLY 11293 S MANTHEY RD LATHROP, CA 95330	HAZNET GEPAID: CAC002806664 HWTS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA generators

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ---------- State Response Sites

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST ---------- Facility Inventory Database

Local Land Records

LIENS ---------- Environmental Liens Listing

LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---------- PCB Transformer Registration Database
RADINFO ---------- Radiation Information Database
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---------- Incident and Accident Data
CONSENT ---------- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---------- Indian Reservations
FUSRAP ---------- Formerly Utilized Sites Remedial Action Program
UMTRA ---------- Uranium Mill Tailings Sites
LEAD SMELTERS ---------- Lead Smelter Sites
US AIRS ---------- Aerometric Information Retrieval System Facility Subsystem
US MINES ---------- Mines Master Index File
ABANDONED MINES ---------- Abandoned Mines
FINDS ---------- Facility Index System/Facility Registry System
UXO ---------- Unexploded Ordnance Sites
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
ECHO ---------- Enforcement & Compliance History Information
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
PFAS NPL ---------- Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ---------- Federal Sites PFAS Information
PFAS TSCA ---------- PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST ---------- PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR ---------- PFAS Contamination Site Location Listing
PFAS WQP ---------- Ambient Environmental Sampling for PFAS

PFAS NPDES - Clean Water Act Discharge Monitoring Information
PFAS ECHO FIRE TRAINING - Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT - All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC - Aqueous Foam Related Incidents Listing
PFAS - PFAS Contamination Site Location Listing
AQUEOUS FOAM - Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
ICE - ICE
HWP - EnviroStor Permitted Facilities Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
UIC - UIC Listing
UIC GEO - UIC GEO (GEOTRACKER)
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
WIP - Well Investigation Program Case List
MILITARY PRIV SITES - MILITARY PRIV SITES (GEOTRACKER)
PROJECT - PROJECT (GEOTRACKER)
WDR - Waste Discharge Requirements Listing
CIWQS - California Integrated Water Quality System
CERS - CERS
NON-CASE INFO - NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS - OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS - PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT - SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ - Well Stimulation Project (GEOTRACKER)
MINES MRDS - Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Auto - EDR Exclusive Historical Auto Stations
EDR Hist Cleaner - EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List
RGA LUST - Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 01/25/2023 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***
Cerclis ID:: 902792				
EPA Id: CA8210020832				

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 01/25/2023 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***
Site ID: 0902792				
EPA Id: CA8210020832				

EXECUTIVE SUMMARY

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION EPA ID:: CA8210020832	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION EPA ID:: CA8210020832	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UPS - LATHROP HUB EPA ID:: CAR000265447	11800 HARLAN ROAD	SSE 1/8 - 1/4 (0.184 mi.)	C20	205

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/21/2022 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STAURTS NURSERY	***10936 S HARLEN RD***	***NE 1/8 - 1/4 (0.198 mi.)***	***D25***	***322***
EPA ID:: CAD982480642				

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 10/27/2022 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***
EPA ID:: CA8210020832				
EPA ID:: CA8210020832				

US INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROLS list, as provided by EDR, and dated 10/27/2022 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***
EPA ID:: CA8210020832				

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk

characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/24/2022 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LATHROP QUINONES ARM Facility Id: 71000048 Status: No Further Action	400 EAST ROTH ROAD	E 1/4 - 1/2 (0.399 mi.)	40	396
H & M TRANSPORT INC Facility Id: 39420006 Status: Refer: Other Agency	***707 E ROTH RD***	***E 1/2 - 1 (0.784 mi.)***	***43***	***406***
VERNER PARCELS C&D Facility Id: 39000002 Status: Haz Waste Disp Land Use (not BZP / HWP)	***HARLAN ROAD AND SQUI***	***S 1/2 - 1 (0.807 mi.)***	***44***	***410***
AGRI-FEEDS INC Facility Id: 39200017 Status: Refer: RWQCB	755 E ROTH RD	E 1/2 - 1 (0.837 mi.)	45	411

Lower Elevation	Address	Direction / Distance	Map ID	Page
4TH HIGH SCHOOL/WEST Facility Id: 39010002 Status: No Further Action	***FRENCH CAMP ROAD/WOL***	***SSW 1/4 - 1/2 (0.423 mi.)***	***41***	***397***

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENETO INC. Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 12/02/2022 Status: Completed - Case Closed Status: Case Closed Global Id: T0607709384	***10842 HARLAN***	***NE 1/8 - 1/4 (0.235 mi.)***	***D35***	***352***
GRANITE CONSTRUCTION Database: LUST REG 5, Date of Government Version: 07/01/2008 Database: LUST, Date of Government Version: 12/02/2022 Status: Completed - Case Closed Status: Case Closed Global Id: T0607700570	***10500 HARLAN***	***NNE 1/4 - 1/2 (0.485 mi.)***	***42***	***402***

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 10 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIAMOND PET FOOD	250 E ROTH RD	E 1/8 - 1/4 (0.157 mi.)	A7	108
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Facility Id: FA0004395 Tank Status: 02 - Inactive, non-billable				
BENETO TANK LINE	10998 HARLAN RD	ENE 1/8 - 1/4 (0.165 mi.)	B9	109
Database: UST, Date of Government Version: 12/02/2022 Facility Id: FA0004559				
BENETO TANK LINE	10998 S HARLAN RD	ENE 1/8 - 1/4 (0.165 mi.)	B11	166
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Facility Id: FA0004559 Tank Status: 02 - Inactive, non-billable				
PILOT TRAVEL CENTER	345 E ROTH RD	ENE 1/8 - 1/4 (0.171 mi.)	A15	196
Database: UST, Date of Government Version: 12/02/2022				
FLYING J TRAVEL CENT	345 E ROTH RD	ENE 1/8 - 1/4 (0.171 mi.)	A17	200
Database: UST, Date of Government Version: 12/02/2022				
UPS LATHROP HUB	11800 S HARLAN RD	SSE 1/8 - 1/4 (0.184 mi.)	C18	201
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Facility Id: FA0010414 Tank Status: 02 - Inactive, non-billable				
FAST LANE CENTRAL VA	116 ROTH RD	E 1/8 - 1/4 (0.189 mi.)	A23	244
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Database: UST, Date of Government Version: 12/02/2022 Facility Id: FA0015977 Facility Id: 39-000-TMP006 Tank Status: 01 - Active, billable				
JASBAR SINGH FARM	235 BRIGGS RD	N 1/8 - 1/4 (0.234 mi.)	31	346
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Facility Id: FA0023712 Tank Status: 02 - Inactive, non-billable				
BENETO TANK LINES	10842 HARLAN RD	NE 1/8 - 1/4 (0.235 mi.)	D32	346
Database: UST, Date of Government Version: 12/02/2022 Facility Id: FA0006898				
RAMOS OIL-FRENCH CAM	10842 S HARLAN RD	NE 1/8 - 1/4 (0.235 mi.)	D33	347
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Database: UST, Date of Government Version: 12/02/2022 Facility Id: FA0006898 Tank Status: 01 - Active, billable				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 3 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KENWORTH OF CENTRAL Database: AST, Date of Government Version: 07/06/2016	10998 S HARLAN	ENE 1/8 - 1/4 (0.165 mi.)	B8	109
PAP TRUCKS, INC. Database: AST, Date of Government Version: 07/06/2016	10998 S HARLAN RD	ENE 1/8 - 1/4 (0.165 mi.)	B13	169
SAN LORENZO LUMBER C Database: AST, Date of Government Version: 07/06/2016	11800 S HARLAN	SSE 1/8 - 1/4 (0.184 mi.)	C21	217

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/05/2023 has revealed that there are 7 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIAMOND PET FOOD	***250 E ROTH RD***	***E 1/8 - 1/4 (0.157 mi.)***	***A5***	***99***
PAP+ TRUCKS INC.	***10998 S HARLAN RD***	***ENE 1/8 - 1/4 (0.165 mi.)***	***B10***	***110***
FLYING J TRAVEL CENT	***345 E ROTH RD***	***ENE 1/8 - 1/4 (0.171 mi.)***	***A14***	***170***
UPS LATHROP HUB	***11800 S HARLAN RD***	***SSE 1/8 - 1/4 (0.184 mi.)***	***C19***	***202***
FAST LANE CENTRAL VA	***116 ROTH RD***	***E 1/8 - 1/4 (0.189 mi.)***	***A24***	***247***
JOHN R LAWSON ROCK &	***10848 S HARLAN***	***NE 1/8 - 1/4 (0.231 mi.)***	***D30***	***336***
RAMOS OIL-FRENCH CAM	***10842 S HARLAN RD***	***NE 1/8 - 1/4 (0.235 mi.)***	***D36***	***355***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOORMAN MFG CO OF CA Comp Number: 1776	***250 E ROTH DR***	***E 1/8 - 1/4 (0.157 mi.)***	***A4***	***95***
BRANSON CROSS LUMBER	***11800 S HARLAN ROAD***	***SSE 1/8 - 1/4 (0.184 mi.)***	***C22***	***218***

Status: A
Tank Status: A
Comp Number: 1589

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOORMAN MFG CO OF CA	***250 E ROTH DR***	***E 1/8 - 1/4 (0.157 mi.)***	***A4***	***95***
MOORMAN MANUFACTURIN Facility Id: 00000021368	***250 E ROTH RD***	***E 1/8 - 1/4 (0.157 mi.)***	***A6***	***107***
BYRON PETERS Facility Id: 00000030284	235 BRIGGS AVE	NNW 1/8 - 1/4 (0.244 mi.)	F37	394
GYRON PETERS	235 W BRIGGS AVE	NNW 1/8 - 1/4 (0.244 mi.)	F38	394

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/06/2023 has revealed that there are 5 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PAP+ TRUCKS INC.	***10998 S HARLAN RD***	***ENE 1/8 - 1/4 (0.165 mi.)***	***B10***	***110***
FLYING J TRAVEL CENT	***345 E ROTH RD***	***ENE 1/8 - 1/4 (0.171 mi.)***	***A14***	***170***
UPS LATHROP HUB	***11800 S HARLAN RD***	***SSE 1/8 - 1/4 (0.184 mi.)***	***C19***	***202***
FAST LANE CENTRAL VA	***116 ROTH RD***	***E 1/8 - 1/4 (0.189 mi.)***	***A24***	***247***
RAMOS OIL-FRENCH CAM	***10842 S HARLAN RD***	***NE 1/8 - 1/4 (0.235 mi.)***	***D36***	***355***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 11/21/2022 has revealed that there are 9 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
B & G GROUP INC DBA EPA ID:: CAL000334208	116 E ROTH RD	E 1/8 - 1/4 (0.150 mi.)	A2	90
DIAMOND PET FOODS EPA ID:: CAL000214447	250 E ROTH RD	E 1/8 - 1/4 (0.157 mi.)	A3	93
PAP TRUCKS, INC.	10998 S HARLAN RD	ENE 1/8 - 1/4 (0.165 mi.)	B12	166

EPA ID:: CAL000322107				
JB HUNT EPA ID:: CAC003197904	345 ROTH RD	ENE 1/8 - 1/4 (0.171 mi.)	A16	197
BOBSTER INC EPA ID:: CAR000116020	10855 S HARLAN RD	NE 1/8 - 1/4 (0.229 mi.)	E26	325
KAG WEST EPA ID:: CAL000402459	10852 S HARLAN RD	NE 1/8 - 1/4 (0.229 mi.)	D27	328
DEMAR TRANSPORTATION EPA ID:: CAR000216838	10850 S HARLAN RD	NE 1/8 - 1/4 (0.230 mi.)	D28	331
JOHN R LAWSON ROCK & EPA ID:: CAL000268744	10848 S HARLAN RD	NE 1/8 - 1/4 (0.231 mi.)	D29	334
RAMOS OIL FRENCH CAM EPA ID:: CAL000289406	10842 S HARLAN RD	NE 1/8 - 1/4 (0.235 mi.)	D34	350

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/25/2023 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEFENSE DISTRIBUTION EPA ID:: CA8210020832	***700 E ROTH RD***	***E 1/4 - 1/2 (0.363 mi.)***	***0***	***10***

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 01/03/2022 has revealed that there is 1 PFAS ECHO site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEMAR TRANSPORTATION	37.858354/-121.28075	NE 1/8 - 1/4 (0.244 mi.)	E39	395

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/14/2022 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENETO INC. Cleanup Status: COMPLETED - CASE CLOSED	***10842 HARLAN***	***NE 1/8 - 1/4 (0.235 mi.)***	***D35***	***352***
GRANITE CONSTRUCTION Cleanup Status: COMPLETED - CASE CLOSED	***10500 HARLAN***	***NNE 1/4 - 1/2 (0.485 mi.)***	***42***	***402***

EXECUTIVE SUMMARY

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

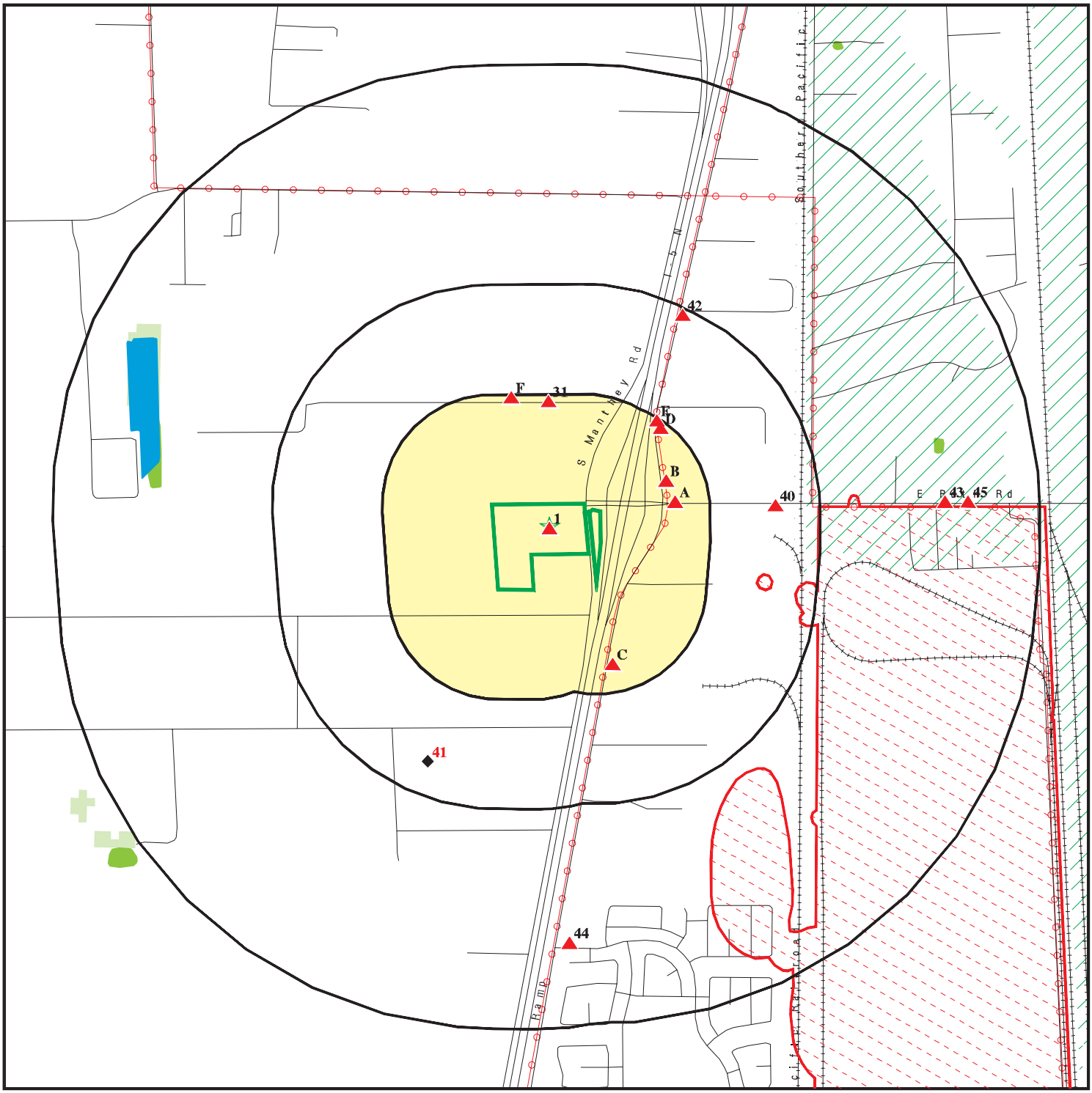
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRANITE CONSTRUCTION Reg Id: 390733	***10500 HARLAN***	***NNE 1/4 - 1/2 (0.485 mi.)***	***42***	***402***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Site Name	Database(s)
UNION PACIFIC LATHROP INTERMODAL F	CPS-SLIC, HAZNET, HWTS
SO PACIFIC RR	SEMS-ARCHIVE
SHARPE ARMY DEPOT	SWF/LF
UNION PACIFIC RAILROAD - FRENCH CA	CPS-SLIC
DEFENSE DISTRIBUTION REGION WEST (	CPS-SLIC
SOUTHERN PACIFIC TRANSPORTATION CO	CA BOND EXP. PLAN

OVERVIEW MAP - 7273084.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Singh Petroleum and Bacay Properties	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	11293 South Manthey Road and 169 Manila Road Lathrop CA 95330	CONTACT:	Linda Phillips
LAT/LONG:	37.854802 / 121.285229	INQUIRY #:	7273084.2s
		DATE:	March 08, 2023 3:37 pm

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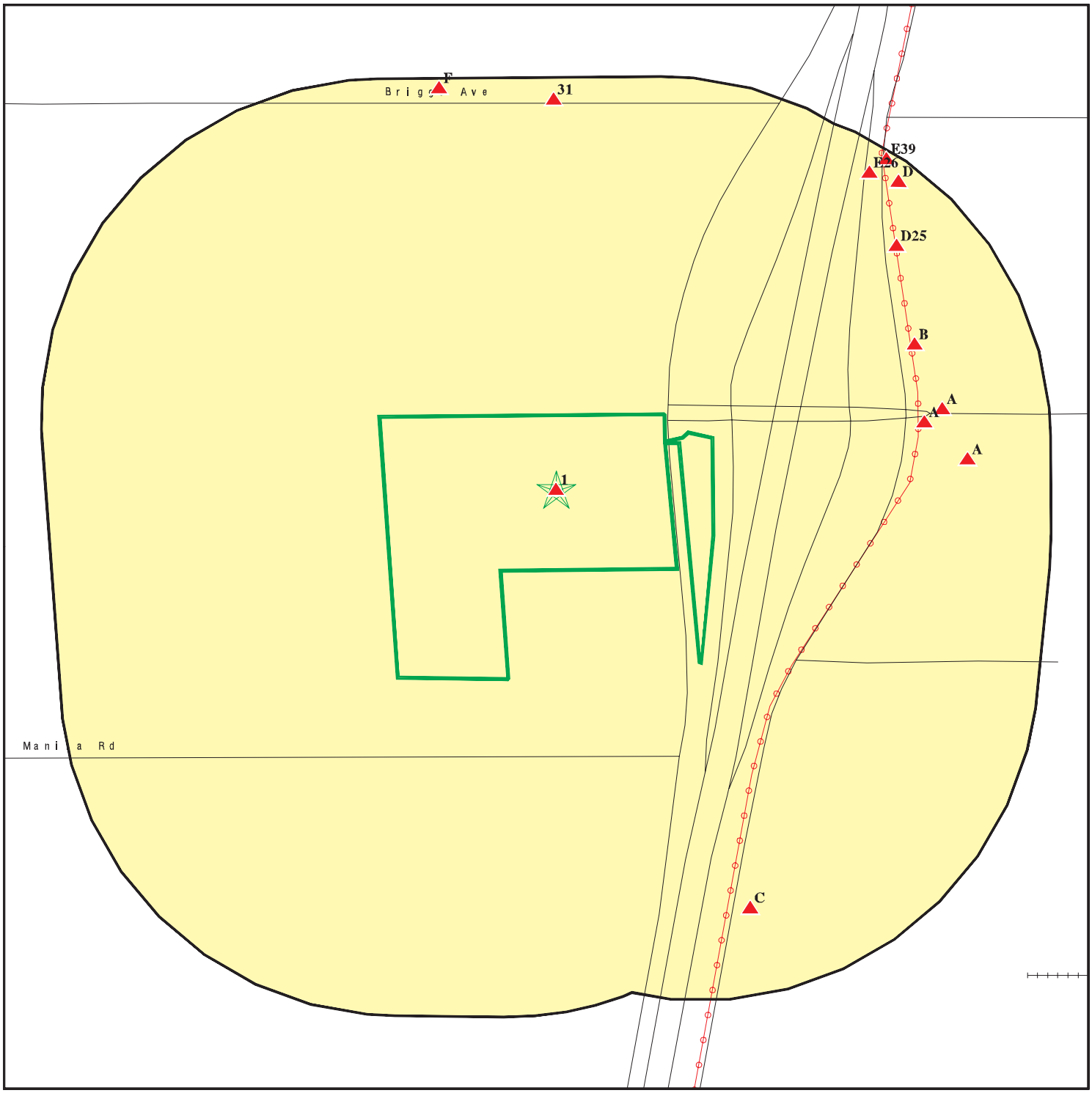
DETAIL MAP - 7273084.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

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		DATE:	March 08, 2023 3:40 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	1	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	1	0	NR	1
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	1	NR	NR	1
US INST CONTROLS	0.500		0	0	1	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	2	3	NR	5
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	1	1	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	10	NR	NR	NR	10
AST	0.250		0	3	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	7	NR	NR	NR	7
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	2	NR	NR	NR	2
HIST UST	0.250		0	4	NR	NR	NR	4
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	5	NR	NR	NR	5
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	9	NR	NR	NR	9
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	1	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	1	NR	NR	NR	1
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	1	NR	NR	2
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP	1	NR	NR	NR	NR	NR	1
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		2	0	45	12	3	0	62

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **GURDIP KELLY** **HAZNET** **S118913417**
Target **11293 S MANTHEY RD** **HWTS** **N/A**
Property **LATHROP, CA 95330**

Actual:
16 ft.

HAZNET:

Name:	GURDIP KELLY
Address:	11293 S MANTHEY RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 953309728
Contact:	GURDIP KELLY
Telephone:	2093375732
Mailing Name:	Not reported
Mailing Address:	11293 S MANTHEY RD
Year:	2015
Gepaid:	CAC002806664
TSD EPA ID:	CAD982042475
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.46

Additional Info:

Year:	2015
Gen EPA ID:	CAC002806664
Shipment Date:	20150424
Creation Date:	7/6/2015 22:15:31
Receipt Date:	20150505
Manifest ID:	012794144JJK
Trans EPA ID:	CAR000096313
Trans Name:	JM ENVIRONMENTAL INC
Trans 2 EPA ID:	CAR000037283
Trans 2 Name:	WORLD ENVIRONMENTAL & ENERGY INC
TSDF EPA ID:	CAD982042475
Trans Name:	RECOLOGY HAY ROAD LANDFILL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	151 - Asbestos-containing waste
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.46
Waste Quantity:	2
Quantity Unit:	Y
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	GURDIP KELLY
Address:	11293 S MANTHEY RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CAC002806664

GURDIP KELLY (Continued) **S118913417**

Inactive Date:	06/09/2015
Create Date:	03/10/2015
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	11293 S MANTHEY RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LATHROP, CA 953309728
Owner Name:	GURDIP KELLY
Owner Address:	11293 S MANTHEY RD
Owner Address 2:	Not reported
Owner City,State,Zip:	LATHROP, CA 953309728
Contact Name:	GURDIP KELLY
Contact Address:	11293 S MANTHEY RD
Contact Address 2:	Not reported
City,State,Zip:	LATHROP, CA 953309728
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	37.854681
Longitude:	-121.283657

NPL
Region
East
1/4-1/2
1916 ft.

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
700 E ROTH RD
FRENCH CAMP, CA 95231

NPL **1000368504**
SEMS **CA8210020832**
CORRACTS
RCRA-TSDF
US ENG CONTROLS
US INST CONTROLS
HIST UST
RCRA NonGen / NLR
ROD
PFAS NPL

NPL:

EPA Region:	9
EPA ID:	CA8210020832
Site ID:	902792
Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
Federal:	Y
Final Date:	1987-07-22 00:00:00
Latitude:	37.829169
Longitude:	-121.2672
Site Score:	42.240000000000002
NAI:	Not reported
Native American Entity:	Not reported

Substance as of 08/2019:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	U052
CAS Number:	1319-77-3

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Substance: CRESOLS
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U079
CAS Number: 156-60-5
Substance: TRANS-DICHLOROETHYLENE, 1,2-
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U211
CAS Number: 56-23-5
Substance: CARBON TETRACHLORIDE
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U211
CAS Number: 56-23-5
Substance: CARBON TETRACHLORIDE
Pathway: SURFACE WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U228
CAS Number: 79-01-6
Substance: TRICHLOROETHYLENE (TCE)
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal October 15, 1984): The Sharpe Army Depot covers 724 acres in a primarily rural area of San Joaquin County in north-central California, approximately 60 miles east of San Francisco, 2 miles east of the San Joaquin River, and l.5 miles northeast of Lathrop. The site is a former U.S. Army maintenance facility. Wastes produced on-site were disposed of in multiple locations, including the South Balloon Area, the Burning Pits Area, and the North Balloon Area. These areas cover about 0.5 square mile. The wastes disposed of at the depot include sludge containing phenols and polychlorinated hydrocarbons trans-dichloroethylene, trichloroethylene, carbon tetrachloride), and used paints and solvents. The total amounts and types are unknown. The wastes have contaminated both soil and ground water, but not surface water to date. All maintenance activities have ceased, and the waste areas are no longer used. The site is located in the large plain on the valley floor, which carries several aquifers, at least one artesian. Most of the surrounding land is used for agriculture, primarily for raising row crops. The depot is participating in the Installation RestorationProgram IRP), established in l978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. The Army has completed Phase I records search) of the IRP. Status July 22, 1987): Sharpe Army Depot is sampling on-base and off-base ground water under IRP Phase II-Stage 2 confirmatory sampling). The Army has installed a facility for treating contaminated ground water in the South Balloon Area. Within the boundaries of this Federal facility, there are areas subject to the Subtitle C

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

corrective action authorities of the Resource Conservation and Recovery Act RCRA). However, no such areas were included in scoring this specific site. Therefore, thisFederal facility site is being placed on the Federal section of the NPL under the NPL/RCRA policy announced on September 8, 1983 48 FR 40662).
Not reported

Category as of 08/2019:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 80

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

Narratives as of 08/2019:
NPL Name: SHARPE ARMY DEPOT

Site as of 08/2019:
EPA Region: 09
Site ID: 0902792
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 07/22/87
Date Proposed: 10/15/84

Site Status as of 08/2019:
Proposed Date: 10/15/1984
Final Date: 07/22/1987
Deleted Date: Not reported
NPL Status: Final

Narr:
Site Name: Sharpe Army Depot
Site EPA ID: CA8210020832
Listing Date: 7/22/1987
Site Score: 42.24
Federal Facility Indicator: Yes
Site List URL: https://semspub.epa.gov/src/document/09/2400245
Site Progress URL: https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0902792
Federal Register URL: https://semspub.epa.gov/src/document/11/189629
Site Location URL: https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=33cebcdfdd1b4c3a8b51d416956c41f1&query=Superfund_National_Priorities_List__NPL__Sites_with_Status_Information_7557,SITE_EPA_ID=%27CA8210020832%27

SEMS:
Site ID: 0902792
EPA ID: CA8210020832
Name: SHARPE ARMY DEPOT
Address: 700 EAST ROTH RD
Address 2: Not reported
City,State,Zip: LATHROP, CA 95330

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Cong District: 09,11
FIPS Code: 06077
Latitude: 37.829169
Longitude: -121.267200
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 00
Action Code: CM
Action Name: PCOR
SEQ: 2
Start Date: 2003-06-27 04:00:00
Finish Date: 2003-06-27 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-10-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-04-30 04:00:00
Finish Date: 1994-06-30 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	1987-07-22 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	1984-04-01 06:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 05:00:00
Finish Date:	1984-10-15 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	2014-09-30 05:00:00
Finish Date:	2014-09-30 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	1998-07-01 04:00:00
Finish Date:	1999-09-10 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1989-03-16 05:00:00
Finish Date:	1993-01-25 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	1996-03-05 05:00:00
Finish Date:	1996-03-05 05:00:00
Qual:	R
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	3
Start Date:	1998-10-31 05:00:00
Finish Date:	2001-04-10 04:00:00
Qual:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 02
Action Code: LY
Action Name: FF RA
SEQ: 4
Start Date: 1998-10-31 05:00:00
Finish Date: 2002-07-02 04:00:00
Qual: FR
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 1
Start Date: 1994-12-08 05:00:00
Finish Date: 1995-06-13 04:00:00
Qual: C
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-04-01 06:00:00
Finish Date: 1984-04-01 06:00:00
Qual: L
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 01
Action Code: LX
Action Name: FF RD
SEQ: 1

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Start Date: 1993-01-25 05:00:00
Finish Date: 1993-10-27 04:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 1993-01-25 05:00:00
Finish Date: 1993-01-25 05:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 02
Action Code: LW
Action Name: FF RI/FS
SEQ: 2
Start Date: 1989-03-16 05:00:00
Finish Date: 1996-03-05 05:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 02
Action Code: LX
Action Name: FF RD
SEQ: 2
Start Date: 1996-03-05 05:00:00
Finish Date: 1998-09-04 04:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902792
EPA ID: CA8210020832
Site Name: SHARPE ARMY DEPOT
NPL: F
FF: Y
OU: 01

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	1995-05-30 04:00:00
Finish Date:	2001-07-02 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	1984-04-01 06:00:00
Qual:	L
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-11-01 05:00:00
Finish Date:	1980-11-01 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT
NPL:	F
FF:	Y
OU:	00
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2014-09-22 05:00:00
Finish Date:	2014-09-30 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902792
EPA ID:	CA8210020832
Site Name:	SHARPE ARMY DEPOT

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

NPL: F
FF: Y
OU: 02
Action Code: LW
Action Name: FF RI/FS
SEQ: 3
Start Date: 2018-07-20 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

CORRACTS:
Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL and/OR TRT
Actual Date: 19890217
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Actual Date: 20000811
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 19980409
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

DATE
Actual Date: 20020725
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 20000811
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 20040405
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Address: 700 E ROTH RD
Address 2: Not reported
EPA ID: CA8210020832
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY DECISION
Actual Date: 19960201
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA TSDF:
Treatment Storage and Disposal Type: Storage, Treatment
Full Enforcement Universe: Storage, Treatment
Corrective Action Workload Universe: Yes
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Storage, Treatment
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Storage, Treatment
Operating TSDF Universe: Not reported
Commercial TSD Indicator: No
Active Site Fed-Reg Treatment Storage and Disposal Facility: Storage, Treatment
Active Site Converter Treatment storage and Disposal Facility: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: Yes
TSDFs Only Subject to CA under Discretionary Auth Universe: No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

SIte:
Name: SHARPE ARMY DEPOT
Address: 700 EAST ROTH RD
Address 2: Not reported
City,State,Zip: LATHROP, CA 95330
Event Code: Not reported
Action Taken Date: 06/24/2019
EPA ID: CA8210020832
Action Name: Explanation of Significant Differences
Action ID: 2
Operable Unit: 02
Contaminated Media: Soil
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2019
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.829169
Longitude: -121.267200

Media:
EPA ID: CA8210020832
Contaminated Media: Soil Gas
Action ID: 1
Operable Unit: 02
Action Name: ROD Amendment
Action Taken Date: 09/27/2011
Event Code: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2011
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Other
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	ROD Amendment
Action Taken Date:	09/27/2011
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2011
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Soil Gas
Action ID:	1
Operable Unit:	02
Action Name:	ROD Amendment
Action Taken Date:	09/27/2011
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2011
NPL Status:	Currently on the Final NPL

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Soil

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/30/2014
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/30/2014
Event Code:	Not reported
Contact Name:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/30/2014
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/30/2014
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Explanation of Significant Differences
Action Taken Date:	09/30/2014
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Explanation of Significant Differences
Action Taken Date:	06/24/2019
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2019
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	02
Action Name:	ROD Amendment
Action Taken Date:	09/27/2011
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2011
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200
EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/25/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1993
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

EPA ID:	CA8210020832
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/05/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

US INST CONTROLS:

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
Action Name:	ROD Amendment
Action ID:	1
Operable Unit:	02
Actual Date:	09/27/2011
Contaminated Media:	Soil Gas
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2011
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	02
Actual Date:	03/05/1996

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
Action Name:	Explanation of Significant Differences
Action ID:	1
Operable Unit:	01
Actual Date:	09/30/2014
Contaminated Media:	Groundwater
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
Action Name:	Explanation of Significant Differences
Action ID:	1
Operable Unit:	01
Actual Date:	09/30/2014
Contaminated Media:	Soil Gas
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2014
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	37.829169
Longitude:	-121.267200

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
Address 2:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

City,State,Zip: LATHROP, CA 95330
EPA ID: CA8210020832
Action Name: Record of Decision
Action ID: 2
Operable Unit: 02
Actual Date: 03/05/1996
Contaminated Media: Other
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.829169
Longitude: -121.267200

Name: SHARPE ARMY DEPOT
Address: 700 EAST ROTH RD
Address 2: Not reported
City,State,Zip: LATHROP, CA 95330
EPA ID: CA8210020832
Action Name: ROD Amendment
Action ID: 1
Operable Unit: 02
Actual Date: 09/27/2011
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2011
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 37.829169
Longitude: -121.267200

HIST UST:
Name: SHARPE ARMY DEPOT
Address: ROTH ROAD
City,State,Zip: LATHROP, CA 95331
File Number: 0002b345
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0002b345.pdf
Region: STATE
Facility ID: 00000037709
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2099822641
Owner Name: SHARPE ARMY DEPOT
Owner Address: ROTH ROAD
Owner City,St,Zip: LATHROP, CA 95331
Total Tanks: 0017

Tank Num: 001

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Container Num:	CT-1
Year Installed:	1969
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	657-2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	657-1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	649-4
Year Installed:	1953
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	649-3
Year Installed:	1953
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	649-2
Year Installed:	1953
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	649-1
Year Installed:	1953
Tank Capacity:	00001000

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	008
Container Num:	377
Year Installed:	1969
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	7/16
Leak Detection:	Stock Inventor
Tank Num:	009
Container Num:	376
Year Installed:	1969
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	7/16
Leak Detection:	Stock Inventor
Tank Num:	010
Container Num:	375
Year Installed:	1969
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	7/16
Leak Detection:	Stock Inventor
Tank Num:	011
Container Num:	374
Year Installed:	1969
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	7/16
Leak Detection:	Stock Inventor
Tank Num:	012
Container Num:	373
Year Installed:	1969
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	7/16
Leak Detection:	Stock Inventor
Tank Num:	013
Container Num:	372
Year Installed:	1969
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	7/16

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Leak Detection: Stock Inventor

Tank Num: 014
Container Num: 371
Year Installed: 1969
Tank Capacity: 00020000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 7/16
Leak Detection: Stock Inventor

Tank Num: 015
Container Num: 349
Year Installed: 1950
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 016
Container Num: 348
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, Pressure Test

Tank Num: 017
Container Num: 199
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

RCRA Listings:
Date Form Received by Agency: 20150428
Handler Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Handler Address: 700 E ROTH RD
Handler City,State,Zip: FRENCH CAMP, CA 95231
EPA ID: CA8210020832
Contact Name: LAURIE TARKINGTON
Contact Address: PO BOX 960001
Contact City,State,Zip: STOCKTON, CA 95296
Contact Telephone: 209-839-4862
Contact Fax: Not reported
Contact Email: LAURIE.TARKINGTON@DLA.MIL
Contact Title: ENV PROTECTION SPEC
EPA Region: 09
Land Type: Federal
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Permitting Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 960001
Mailing City,State,Zip:	STOCKTON, CA 95296-0001
Owner Name:	UNITED STATES OF AMERICA
Owner Type:	Federal
Operator Name:	DEFENSE LOGISTIC AGENCY
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Storage, Treatment
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Storage, Treatment
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Storage, Treatment
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 20150518
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: U151
Waste Description: MERCURY

Waste Code: U154

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES OF AMERICA
Legal Status:	Federal
Date Became Current:	19471001
Date Ended Current:	Not reported
Owner/Operator Address:	P.O. BOX 960001
Owner/Operator City,State,Zip:	STOCKTON, CA 95296-0710
Owner/Operator Telephone:	209-839-4067
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DEFENSE LOGISTIC AGENCY
Legal Status:	Federal
Date Became Current:	19471001
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ROTH ROAD
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 95331
Owner/Operator Telephone:	209-982-2097
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DEFENSE LOGISTICS AGENCY
Legal Status:	Federal
Date Became Current:	20020531
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: 95286
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPT OF DEFENSE
Legal Status: Federal
Date Became Current: 20020531
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DEFENSE LOGISTIC AGENCY
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 960001
Owner/Operator City,State,Zip: STOCKTON, CA 95296-0710
Owner/Operator Telephone: 209-982-2099
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPARTMENT OF
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: P. O. BOX 960001, BLDG 16
Owner/Operator City,State,Zip: STOCKTON, CA 95296-0710
Owner/Operator Telephone: 209-839-4129
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: P.O. BOX 960001
Owner/Operator City,State,Zip: STOCKTON, CA 95296-0710
Owner/Operator Telephone: 209-839-4067
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPT. OF DEFENSE
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTIC AGENCY
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPT. OF DEFENSE
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPT. OF DEFENSE
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: P. O. BOX 960001, BLDG 16 MEZZ
Owner/Operator City,State,Zip: STOCKTON, CA 95296-0710
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: DEFENSE LOGISTICS AGENCY
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES OF AMERICA
Legal Status: Federal
Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 960001
Owner/Operator City,State,Zip: STOCKTON, CA 95296
Owner/Operator Telephone: 209-839-4067
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES OF AMERICA
Legal Status: Federal

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Date Became Current: 19471001
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 960001
Owner/Operator City,State,Zip: STOCKTON, CA 95296
Owner/Operator Telephone: 209-839-4067
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES DEPT. OF DEFENSE
Legal Status: Federal
Date Became Current: 19421001
Date Ended Current: Not reported
Owner/Operator Address: P.O. BOX 960001, BLDG 100 RM 2
Owner/Operator City,State,Zip: STOCKTON, CA 95296-0710
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100225
Handler Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120822
Handler Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140301
Handler Name: DISTRIBUTION DEPOT SAN JOAQUIN SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960901
Handler Name: USARMY DEF DIST REGION W SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060207
Handler Name: DEFENSE DIST. DEPOT SAN JOAQUIN - SHARPE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970108
Handler Name: USARMY DEF DIST REGION W SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150428
Handler Name: DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900405

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Handler Name: SHARPE ARMY DEPOT_ATTN: SDSSH-EM
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920226
Handler Name: DEFENSE DISTRIBUTION REGION WEST, SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940413
Handler Name: USARMY DEFENSE DIST REGION WEST SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960315
Handler Name: DEFENSE DISTRIBUTION REGION WEST SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990304
Handler Name: DEFENSE DISTRIBUTION SAN JOAQUIN SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: DEFENSE DISTRIBUTION SAN JOAQUIN SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020313
Handler Name: DEFENSE DIST DEPOT SAN JOAQUIN -SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040204
Handler Name: DEFENSE DIST. DEPOT SAN JOAQUIN - SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060207
Handler Name: DEFENSE DIST. DEPOT SAN JOAQUIN - SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Electronic Manifest Broker: Not reported

Receive Date: 20080207
Handler Name: DEFENSE DIST. DEPOT SAN JOAQUIN - SHARPE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 49311
NAICS Description: GENERAL WAREHOUSING AND STORAGE

NAICS Code: 49319
NAICS Description: OTHER WAREHOUSING AND STORAGE

NAICS Code: 92119
NAICS Description: OTHER GENERAL GOVERNMENT SUPPORT

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19920922
Actual Return to Compliance Date: 19921019
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19921009
Enforcement Identifier: 003
Date of Enforcement Action: 19920922
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19900416
Actual Return to Compliance Date: 19900802
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19900829
Enforcement Identifier: 001
Date of Enforcement Action: 19900531
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19880427
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19941101
Actual Return to Compliance Date: 19950419
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941213
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19910624
Actual Return to Compliance Date: 19920811
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19941101
Actual Return to Compliance Date: 19950419
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941213
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20030204
Actual Return to Compliance Date: 20030211
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	200
Date of Enforcement Action:	20030205
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19941101
Actual Return to Compliance Date:	19950419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	19941213
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20030204
Actual Return to Compliance Date:	20030211
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	503
Date of Enforcement Action:	20040506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Application
Date Violation was Determined:	20030204
Actual Return to Compliance Date:	20040526
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	503
Date of Enforcement Action:	20040506
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20020326
Actual Return to Compliance Date: 20020717
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20020326
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19870331
Actual Return to Compliance Date: 19880427
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19880427
Actual Return to Compliance Date:	19900108
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19890209
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19891026
Enforcement Identifier: 005
Date of Enforcement Action: 19890926
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19940331
Actual Return to Compliance Date: 19940823
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: 004
Date of Enforcement Action: 19940331
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19940331
Actual Return to Compliance Date: 19940823
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 004
Date of Enforcement Action: 19940331
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19941101
Actual Return to Compliance Date: 19950419
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 19941213
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19910624
Actual Return to Compliance Date: 19910925
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19911106

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: 002
Date of Enforcement Action: 19910801
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20020326
Actual Return to Compliance Date: 20020327
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 502
Date of Enforcement Action: 20020705
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19890209
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19891026

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	19940331
Actual Return to Compliance Date:	19940823
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19940331
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19870331
Actual Return to Compliance Date: 19880427
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: 19880229
Enforcement Identifier: 001
Date of Enforcement Action: 19871027
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 19941101
Actual Return to Compliance Date: 19950419
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: 006
Date of Enforcement Action: 19941213
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19890209
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19891026
Enforcement Identifier: 005
Date of Enforcement Action: 19890926
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19920922
Actual Return to Compliance Date: 19921019
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19921019
Enforcement Identifier: 003
Date of Enforcement Action: 19920922
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20020326
Actual Return to Compliance Date: 20020717
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	502
Date of Enforcement Action:	20020705
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19890209
Actual Return to Compliance Date:	19900108
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891026
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19870331
Actual Return to Compliance Date:	19880427
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20020326
Actual Return to Compliance Date:	20020327
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: 200
Date of Enforcement Action: 20020326
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 19910624
Actual Return to Compliance Date: 19920811
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19890209
Actual Return to Compliance Date:	19900108
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19891026
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20040603
Actual Return to Compliance Date: 20040624
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 20040603
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19880427
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19940331
Actual Return to Compliance Date:	19940823
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	19940331
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Permits - Application
Date Violation was Determined:	20030204
Actual Return to Compliance Date:	20040526
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier:	200
Date of Enforcement Action:	20030205
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	LDR - General
Date Violation was Determined:	19910624
Actual Return to Compliance Date:	19920811
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 19890209
Actual Return to Compliance Date: 19900108
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19891026
Enforcement Identifier: 005
Date of Enforcement Action: 19890926
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 19920922
Actual Return to Compliance Date: 19921019
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19921009

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Enforcement Identifier: 003
Date of Enforcement Action: 19920922
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19920811
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19921019
Scheduled Compliance Date: 19921009
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19900416
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19900802
Scheduled Compliance Date: 19900829
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Evaluation Date:	19880427
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19961113
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100325
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19910624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030204
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030211
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19951114
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20010426
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030204
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20030211
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980121
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030204
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040526
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050324
Evaluation Responsible Agency:	State

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020717
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870331
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880427
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880427
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940823
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940823
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910624
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910925
Scheduled Compliance Date:	19911106
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Evaluation Date:	20000329
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020327
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940823
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870331
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880427
Scheduled Compliance Date:	19880229
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920811
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19921019
Scheduled Compliance Date:	19921019
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020717
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19870331
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19880427
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020326
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020327
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170516
Evaluation Responsible Agency:	State

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040624
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040603
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040624
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19880427
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940215
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940823
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19941101
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20030204
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040526
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910624
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19920811
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

Evaluation Date:	19890209
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19900108
Scheduled Compliance Date:	19891026
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19920811
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19921019
Scheduled Compliance Date:	19921009
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

ROD:

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
RG:	9
Site ID:	902792
Action:	FF ESD
Operable Unit Number:	OVERALL SITE (OU-1)
SEQ ID:	1
Action Completion:	2014-09-30 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
RG:	9
Site ID:	902792
Action:	FF ESD
Operable Unit Number:	SOIL (OU-2)
SEQ ID:	2
Action Completion:	2019-06-24 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
RG:	9
Site ID:	902792
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	OVERALL SITE (OU-1)
SEQ ID:	1
Action Completion:	1993-01-25 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832
RG:	9
Site ID:	902792
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	SOIL (OU-2)
SEQ ID:	2
Action Completion:	1996-03-05 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CA8210020832

DEFENSE DISTRIBUTION DEPOT SAN JOAQUIN SHARPE SITE (Continued) **1000368504**

RG:	9
Site ID:	902792
Action:	FF ROD Amendment
Operable Unit Number:	SOIL (OU-2)
SEQ ID:	1
Action Completion:	2011-09-27 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

PFAS NPL:

EPA Region:	09
Name:	SHARPE ARMY DEPOT
Address:	700 EAST ROTH RD
City,State,Zip:	LATHROP, CA 95330
EPAID:	CA8210020832
Superfund Link:	https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0902792&msspp=med
Data Systems:	SEMS
Last Updated:	2021-04-30 00:00:00
Programs:	Superfund
Location Type:	Federal
NPL Site:	Y
NPL Status:	Final
Media Detected:	GW
Health Advisory:	N
DW Response:	-
Latitude:	37.829169
Longitude:	-121.2672
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.2672,%22y%22:37.829169,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

A2 **B & G GROUP INC DBA FAST LANE CENTRAL VALLEY** **RCRA NonGen / NLR** **1024820589**
East **116 E ROTH RD** **CAL000334208**
1/8-1/4 **LATHROP, CA 95330**
0.150 mi.
792 ft. **Site 1 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

RCRA Listings:

Date Form Received by Agency:	20080703
Handler Name:	B & G GROUP INC DBA FAST LANE CENTRAL VALLEY
Handler Address:	116 E ROTH RD
Handler City,State,Zip:	LATHROP, CA 95330
EPA ID:	CAL000334208
Contact Name:	HARDEEP GILL
Contact Address:	111 HEALDSBURG AVE
Contact City,State,Zip:	HEALDSBURG, CA 95448
Contact Telephone:	707-431-3510
Contact Fax:	707-395-4633
Contact Email:	HARDEEP@BGGROUPINC.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported

B & G GROUP INC DBA FAST LANE CENTRAL VALLEY (Continued) **1024820589**

Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		111 HEALDSBURG AVE
Mailing City,State,Zip:		HEALDSBURG, CA 95448-0000
Owner Name:	B&G GROUP, INC	
Owner Type:		Other
Operator Name:	HARDEEP GILL	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20180905

B & G GROUP INC DBA FAST LANE CENTRAL VALLEY (Continued) **1024820589**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: B&G GROUP, INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 HEALDSBURG AVE
Owner/Operator City,State,Zip:	HEALDSBURG, CA 95448-0000
Owner/Operator Telephone:	707-431-3510
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: HARDEEP GILL	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	111 HEALDSBURG AVE
Owner/Operator City,State,Zip:	HEALDSBURG, CA 95448
Owner/Operator Telephone:	707-431-3510
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20080703
Handler Name:	B & G GROUP INC DBA FAST LANE CENTRAL VALLEY
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44719
NAICS Description:	OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

B & G GROUP INC DBA FAST LANE CENTRAL VALLEY (Continued) **1024820589**

Evaluation Action Summary:
Evaluations: No Evaluations Found

A3 **DIAMOND PET FOODS** **RCRA NonGen / NLR** **1024799858**
East **250 E ROTH RD** **CAL000214447**
1/8-1/4 **LATHROP, CA 95330**
0.157 mi.
830 ft. **Site 2 of 12 in cluster A**

Relative: **Higher**

Actual: **17 ft.**

RCRA Listings:

Date Form Received by Agency:		20001006
Handler Name:	DIAMOND PET FOODS	
Handler Address:		250 E ROTH RD
Handler City,State,Zip:		LATHROP, CA 95330-0000
EPA ID:		CAL000214447
Contact Name:		SANDRA BARRON
Contact Address:		250 E ROTH RD
Contact City,State,Zip:		LATHROP, CA 95330-0000
Contact Telephone:		209-983-4900
Contact Fax:		000-000-0000
Contact Email:		SBARRON@DIAMONDPET.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		250 E ROTH RD
Mailing City,State,Zip:		LATHROP, CA 95330-0000
Owner Name:	KAMPETER & SHELL INC	
Owner Type:		Other
Operator Name:	SANDRA BARRON	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N

DIAMOND PET FOODS (Continued) **1024799858**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: SANDRA BARRON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	250 E ROTH RD
Owner/Operator City,State,Zip:	LATHROP, CA 95330-0000
Owner/Operator Telephone:	209-983-4900
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: KAMPETER & SHELL INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4TH & OLIVE

DIAMOND PET FOODS (Continued) **1024799858**

Owner/Operator City,State,Zip: META, MO 56058-0000
Owner/Operator Telephone: 800-442-0402
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20001006
Handler Name: DIAMOND PET FOODS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 311111
NAICS Description: DOG AND CAT FOOD MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A4 **MOORMAN MFG CO OF CALIFORNIA** **SWEEPS UST** **S106929610**
East **250 E ROTH DR** **HIST UST** **N/A**
1/8-1/4 **LATHROP, CA 95330** **EMI**
0.157 mi.
830 ft. **Site 3 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

SWEEPS UST:
Name: MOORMAN MFG CO OF CALIFORNIA
Address: 250 E ROTH DR
City: LATHROP
Status: Not reported
Comp Number: 1776
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001776-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED

MOORMAN MFG CO OF CALIFORNIA (Continued) **S106929610**

Number Of Tanks: 2

Name: MOORMAN MFG CO OF CALIFORNIA
Address: 250 E ROTH DR
City: LATHROP
Status: Not reported
Comp Number: 1776
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001776-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: MOORMAN MFG CO OF CALIF
Address: 250 E ROTH ROAD
City,State,Zip: LATHROP, CA 95330
File Number: 0002ff4e
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0002ff4e.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

EMI:
Name: DIAMOND PET FOOD PRO OF CA LLC
Address: 250 E ROTH RD
City,State,Zip: LATHROP, CA 95330
Year: 2014
County Code: 39

MOORMAN MFG CO OF CALIFORNIA (Continued) **S106929610**

Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815061
Reactive Organic Gases Tons/Yr:	4.2143998627
Carbon Monoxide Emissions Tons/Yr:	24.079499176
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.29035499725
Particulate Matter Tons/Yr:	41.368391343
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209965

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	2015
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815045
Reactive Organic Gases Tons/Yr:	4.214399862
Carbon Monoxide Emissions Tons/Yr:	24.079499175
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.290325
Particulate Matter Tons/Yr:	41.368391341
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209964

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	2016
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815045
Reactive Organic Gases Tons/Yr:	4.214399862
Carbon Monoxide Emissions Tons/Yr:	24.079499175
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.290325
Particulate Matter Tons/Yr:	41.368391341
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209964

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD

MOORMAN MFG CO OF CALIFORNIA (Continued) **S106929610**

City,State,Zip:	LATHROP, CA 95330
Year:	2017
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815045
Reactive Organic Gases Tons/Yr:	4.214399862
Carbon Monoxide Emissions Tons/Yr:	24.079499175
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.290325
Particulate Matter Tons/Yr:	41.368391341
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209964

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	2018
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815045
Reactive Organic Gases Tons/Yr:	4.214399862
Carbon Monoxide Emissions Tons/Yr:	24.079499175
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.290325
Particulate Matter Tons/Yr:	41.316371343
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209964

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	2019
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.5781815045
Reactive Organic Gases Tons/Yr:	4.214399862
Carbon Monoxide Emissions Tons/Yr:	24.079499175
NOX - Oxides of Nitrogen Tons/Yr:	11.011666646
SOX - Oxides of Sulphur Tons/Yr:	0.290325
Particulate Matter Tons/Yr:	41.316371343
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.080209964

MOORMAN MFG CO OF CALIFORNIA (Continued) **S106929610**

Name:	DIAMOND PET FOOD PRO OF CA LLC
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	2020
County Code:	39
Air Basin:	SJV
Facility ID:	558
Air District Name:	SJU
SIC Code:	2047
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.1183164619
Reactive Organic Gases Tons/Yr:	1.375034155
Carbon Monoxide Emissions Tons/Yr:	7.075055797
NOX - Oxides of Nitrogen Tons/Yr:	3.746306241
SOX - Oxides of Sulphur Tons/Yr:	0.224758566
Particulate Matter Tons/Yr:	24.711823422
Part. Matter 10 Micrometers and Smllr Tons/Yr:	7.742565221

A5 **DIAMOND PET FOOD** **CERS HAZ WASTE S121772627**
East **250 E ROTH RD** **CERS N/A**
1/8-1/4 **LATHROP, CA 95330**
0.157 mi.
830 ft. **Site 4 of 12 in cluster A**

Relative: **Higher**
Actual: **17 ft.**

CERS HAZ WASTE:

Name:	DIAMOND PET FOOD
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	391392
CERS ID:	10181617
CERS Description:	Hazardous Waste Generator

CERS:

Name:	DIAMOND PET FOOD
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	391392
CERS ID:	10181617
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	391392
Site Name:	DIAMOND PET FOOD
Violation Date:	10-19-2020
Citation:	22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description:	Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior

DIAMOND PET FOOD (Continued) **S121772627**

to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.

Violation Notes: Returned to compliance on 12/17/2020. OBSERVATION: The following empty container were observed in the hazardous waste storage area: -Three empty 55-gallon containers observed with no empty date. REGULATION GUIDANCE: Empty containers which previously held a hazardous material, including hazardous waste must be managed per Title 22 California Code of Regulations (CCR) section 66261.7. Refer to this section and California Department of Toxic Substances Control guidance for more information. CORRECTIVE ACTION: Immediately label all empty containers with the date they were emptied and manage within one year of that date. Manage the container per Title 22 CCR section 66261.7. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391392
Site Name: DIAMOND PET FOOD
Violation Date: 10-19-2020
Citation: HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description: Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes: Returned to compliance on 12/17/2020. OBSERVATION: The business operator could not provide hazardous waste disposal records for the past three years for the following hazardous waste: used oil, parts washer waste, waste antifreeze during the inspection. REGULATION GUIDANCE: The generator shall retain each consolidated manifest receipt for at least three years. This period of retention is extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the department or a certified unified program agency. CORRECTIVE ACTION: Provide a copy of disposal records for the past three years 10-19-2017 to 10-19-2020 for all hazardous waste including used oil, parts washer waste, and waste antifreeze. Provide these records and a corrective action statement to the EHD within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391392
Site Name: DIAMOND PET FOOD
Violation Date: 10-19-2020
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200

DIAMOND PET FOOD (Continued) **S121772627**

	miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Returned to compliance on 12/17/2020. OBSERVATION: The following hazardous waste containers were found in the hazardous waste storage area with an accumulation start date of greater than 180 days or no accumulation start date: -One 55-gallon with used oil observed with accumulation start date of 5-20-2019. REGULATION GUIDANCE: (a) Except as provided in subsections (c) and (d) of this section and section 66262.35, a generator may accumulate hazardous waste on-site for 180 days or less without a permit or grant of interim status, provided that: (b) The beginning of the 180 day period specified in subsections (a) and (c) of this section is determined as follows: (1) if the generator does not generate more than 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste (listed in section 66261.33(e)) or one kilogram of extremely hazardous waste during any calendar month, the 180 day period begins on the date the generator has accumulated 100 kilograms of hazardous waste or one kilogram of acu
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	391392
Site Name:	DIAMOND PET FOOD
Violation Date:	07-25-2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/25/2014. 220 gallons of chlorine, 80 gallons dimethyl ammonium chloride (boot cleaner), 55 gallons Quad door foam were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	391392
Site Name:	DIAMOND PET FOOD
Violation Date:	10-19-2020
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to

DIAMOND PET FOOD (Continued) **S121772627**

	leak.
Violation Notes:	Returned to compliance on 11/17/2020. OBSERVATION: The following open hazardous waste storage containers were observed in the hazardous waste storage area: -One 55-gallon container with waste antifreeze observed with no lid for funnel and no lid to bunghole. -One 55-gallon container with used oil filters observed with non-secure lid. REGULATION GUIDANCE: A container holding hazardous waste shall always be closed during transfer and storage, except when it is necessary to add or remove waste. CORRECTIVE ACTION: Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department within 30 days.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	391392
Site Name:	DIAMOND PET FOOD
Violation Date:	10-19-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 01/06/2021. OBSERVATION: Hazardous waste containers were observed in the hazardous waste storage area with incomplete labeling. The containers were: -One 55-gallon container with used oil observed lacking physical state and hazardous properties. Corrected on site by operator, marking liquid and toxic . -Three 55-gallon containers with used oil observed lacking generator name and address, accumulation start date, physical state, hazardous properties, contents. -One 55-gallon container with waste solids (used oil filters) observed lacking hazardous properties. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	391392
Site Name:	DIAMOND PET FOOD
Violation Date:	10-19-2020
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.

DIAMOND PET FOOD (Continued) **S121772627**

Violation Notes: Returned to compliance on 01/25/2021. OBSERVATION: Designated facility signed and dated copies of Uniform Hazardous Waste Manifests (UHWM) were not found on-site. The missing manifests are: 021239191JJK (7-6-2020) REGULATION GUIDANCE: A hazardous waste generator shall keep a copy of each manifest signed in accordance with section 66262.23(a) for three years or until the generator receives a signed copy from the designated facility which received the waste. This signed copy shall be retained as a record for at least three years from the date the waste was accepted by the initial transporter. The hazardous waste generator must submit a copy of the manifest to the California Department of Toxic Substances Control (DTSC) within 60 days if the destination facility signed manifest copy is not received from the transporter or designated facility. CORRECTIVE ACTION: Locate the destination facility signed manifests listed above and maintain in the facility file for three years from the date of shipping. Send a copy to
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 391392
Site Name: DIAMOND PET FOOD
Violation Date: 10-19-2020
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 01/06/2021. OBSERVATION: The following was observed in the hazardous waste storage area: -Used oil stain observed on concrete floor of hazardous waste storage area. -One 55-gallon container with product oil observed with oil accumulating on lid of container. The following was observed in the maintenance shop: -Metal fines observed accumulating on and the floor of one metal grinding machine. -Metal fines observed accumulating on and the floor of two metal saw machines. -Metal fines observed accumulating on workbench for metal clamp machine. REGULATION GUIDANCE: A hazardous waste generator must maintain and operate its facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water, which could threaten human health or the environment. CORRECTIVE ACTION: Immediately, accumulating oil, oil stains and metal fines. Manage the waste according to Title 22
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting

DIAMOND PET FOOD (Continued) **S121772627**

paperwork, by 8/24/2014 . Consent to perform the inspection, take photos and collect samples was given by Zack Clark Safety Coordinator. . Please be aware as of January 1, 2013, all businesses were required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-19-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 18th, 2020. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Return to compliance certification, minimum hazardous waste labeling requirements sheet. Waste streams found: used oil, waste antifreeze, used oil filters, metal fines, parts washer waste, soiled rags. Note: Total amount of hazardous waste generated in last calendar year was calculated from manifest found from Department of Toxic Substances Control website. The following minor violations were corrected on s

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-28-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations found at time of inspection. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 391392
Site Name: DIAMOND PET FOOD
Site Address: 250 E ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-25-2014
Enf Action Type: Notice of Violation (Unified Program)

DIAMOND PET FOOD (Continued) **S121772627**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Coordinates:

Site ID:	391392
Facility Name:	DIAMOND PET FOOD
Env Int Type Code:	HMBP
Program ID:	10181617
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	37.854790
Longitude:	-121.276770

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,

Affiliation Type Desc:	Operator
Entity Name:	MARK FERGUSON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 824-4640,

Affiliation Type Desc:	Parent Corporation
Entity Name:	DIAMOND PET FOOD
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Document Preparer
Entity Name:	Zachary Clark
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

DIAMOND PET FOOD (Continued) **S121772627**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	250 E ROTH RD
Affiliation City:	LATHROP
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95330
Affiliation Phone:	,

Affiliation Type Desc:	Property Owner
Entity Name:	Diamond Pet Foods
Entity Title:	Not reported
Affiliation Address:	103 N Olive
Affiliation City:	Meta
Affiliation State:	MO
Affiliation Country:	United States
Affiliation Zip:	65058
Affiliation Phone:	(209) 983-4900,

Affiliation Type Desc:	Environmental Contact
Entity Name:	ZACH CLARK
Entity Title:	Not reported
Affiliation Address:	250 E ROTH RD
Affiliation City:	LATHROP
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95330
Affiliation Phone:	,

Affiliation Type Desc:	Identification Signer
Entity Name:	MARK FERGUSON
Entity Title:	PLANT MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	DIAMOND PET FOOD
Entity Title:	Not reported
Affiliation Address:	103 N OLIVE
Affiliation City:	METE
Affiliation State:	MO
Affiliation Country:	United States
Affiliation Zip:	65058
Affiliation Phone:	(573) 229-4203,

A6 **MOORMAN MANUFACTURING CO** **HIST UST** **1000364886**
East **250 E ROTH RD** **EMI** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.157 mi.
830 ft. **Site 5 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

HIST UST:

Name:	MOORMAN MFG. CO. OF CALIF.
Address:	250 ROTH RD
City,State,Zip:	LATHROP, CA 95330
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000021368
Facility Type:	Other
Other Type:	ANIMAL FOOD
Contact Name:	RAY MARKEL
Telephone:	2099830123
Owner Name:	MOORMAN MFG. CO. OF CALIF.
Owner Address:	250 E. ROTH ROAD
Owner City,St,Zip:	LATHROP, CA 95330
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1982
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Visual, Stock Inventor

EMI:

Name:	MOORMAN MANUFACTURING CO
Address:	250 E ROTH RD
City,State,Zip:	LATHROP, CA 95330
Year:	1990
County Code:	39
Air Basin:	SJV
Facility ID:	201
Air District Name:	SJU
SIC Code:	2041
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

MOORMAN MANUFACTURING CO (Continued) **1000364886**

Particulate Matter Tons/Yr: 2
Part. Matter 10 Micrometers and Smllr Tons/Yr:1

A7 **DIAMOND PET FOOD** **UST** **U004260283**
East **250 E ROTH RD** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.157 mi.
830 ft. **Site 6 of 12 in cluster A**

Relative: UST SAN JOAQUIN:
Higher

Actual: Name: DIAMOND PET FOOD
17 ft. Address: 250 E ROTH RD
City,State,Zip: LATHROP, CA 95330
Region: SJ
Facility Id: FA0004395
Mail Address: 250 E ROTH RD
Mail Address 2: Not reported
Mail Care of: MARK FERGUSON
Mail City,St,Zip: LATHROP, CA 95330

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 10000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181617
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 37.8548575143
Longitude: -121.2769649300

Tank Rec ID: Not reported
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 10000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181617
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 37.8548575143
Longitude: -121.2769649300

B8 **KENWORTH OF CENTRAL CALIFORNIA** **AST** **A100338783**
ENE **10998 S HARLAN** **N/A**
1/8-1/4 **FRENCH CAMP, CA**
0.165 mi.
872 ft. **Site 1 of 6 in cluster B**

Relative:
Higher

Actual:
17 ft.

AST:

Name:	KENWORTH OF CENTRAL CALIFORNIA
Address:	10998 S HARLAN
City/Zip:	FRENCH CAMP,
Certified Unified Program Agencies:	San Joaquin
Owner:	PAPE PROPERTIES INC
Total Gallons:	1,825
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

B9 **BENETO TANK LINE** **UST** **U003786447**
ENE **10998 HARLAN RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.165 mi.
872 ft. **Site 2 of 6 in cluster B**

Relative:
Higher

Actual:
17 ft.

UST:

Name:	BENETO TANK LINE
Address:	10998 HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	FA0004559
Permitting Agency:	Not reported
CERSID:	Not reported
Latitude:	37.8579003
Longitude:	-121.2785811
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported

BENETO TANK LINE (Continued) **U003786447**

Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

B10 **PAP+ TRUCKS INC.** **CERS HAZ WASTE** **S113148578**
ENE **10998 S HARLAN RD** **CERS TANKS** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231** **HAZNET**
0.165 mi. **CERS**
872 ft. **Site 3 of 6 in cluster B** **HWTS**

Relative:
Higher

Actual:
17 ft.

CERS HAZ WASTE:

Name:	PAP TRUCKS, INC.
Address:	10998 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Site ID:	399090
CERS ID:	10159715
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	PAP TRUCKS, INC.
Address:	10998 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Site ID:	399090
CERS ID:	10159715
CERS Description:	Aboveground Petroleum Storage

HAZNET:

Name:	PAP+ TRUCKS INC.
Address:	10998 S HARLAN RD
Address 2:	Not reported
City,State,Zip:	FRENCH CAMP, CA 952319600

PAP+ TRUCKS INC. (Continued) **S113148578**

Contact:	JANET KING
Telephone:	5413413342
Mailing Name:	Not reported
Mailing Address:	PO BOX 407
Year:	2021
Gepaid:	CAL000322107
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.4625
Year:	2020
Gepaid:	CAL000322107
TSD EPA ID:	CAD097030993
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.66722
Year:	2020
Gepaid:	CAL000322107
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.125
Year:	2020
Gepaid:	CAL000322107
TSD EPA ID:	CAT080013352
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.561
Year:	2019
Gepaid:	CAL000322107
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.68500
Year:	2019
Gepaid:	CAL000322107
TSD EPA ID:	CAD097030993
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.50040
Year:	2019
Gepaid:	CAL000322107
TSD EPA ID:	CAT080013352
CA Waste Code:	343 - Unspecified organic liquid mixture

PAP+ TRUCKS INC. (Continued) **S113148578**

Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.61200

Year: 2018
Gepaid: CAL000322107
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.30000

Year: 2018
Gepaid: CAL000322107
TSD EPA ID: CAT080013352
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.51000

Year: 2018
Gepaid: CAL000322107
TSD EPA ID: NED981723513
CA Waste Code: 352 - Other organic solids
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.10000

Click this hyperlink while viewing on your computer to access
54 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2021
Gen EPA ID: CAL000322107

Shipment Date: 8/6/2020
Creation Date: 9/9/2020
Receipt Date: 8/17/2020
Manifest ID: 021523693JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000521146
Trans Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	8/12/2020
Creation Date:	9/30/2020
Receipt Date:	8/24/2020
Manifest ID:	021523785JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.66722
Waste Quantity:	160
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/5/2020
Creation Date:	7/9/2020
Receipt Date:	6/19/2020
Manifest ID:	021522035JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	3/26/2020
Creation Date:	5/7/2020
Receipt Date:	4/15/2020
Manifest ID:	016769048JJK

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000521146
Trans Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 12/3/2020
Creation Date: 1/19/2021
Receipt Date: 12/18/2020
Manifest ID: 020382395JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000521146
Trans Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.2
Waste Quantity: 400
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 10/13/2020
Creation Date: 12/1/2020
Receipt Date: 11/2/2020
Manifest ID: 021525638JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000521146
Trans Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID: Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	1/31/2020
Creation Date:	3/13/2020
Receipt Date:	2/19/2020
Manifest ID:	020381838JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	1/31/2020
Creation Date:	3/5/2020
Receipt Date:	2/14/2020
Manifest ID:	020381884JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.374
Waste Quantity:	110

PAP+ TRUCKS INC. (Continued) **S113148578**

Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2020
Gen EPA ID: CAL000322107

Shipment Date: 8/6/2020
Creation Date: 9/9/2020
Receipt Date: 8/17/2020
Manifest ID: 021523693JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID: CAR000175422
Trans 2 Name: WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID: AZR000521146
Trans Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 8/12/2020
Creation Date: 9/30/2020
Receipt Date: 8/24/2020
Manifest ID: 021523785JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: US ECOLOGY VERNON INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.66722
Waste Quantity: 160
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	6/5/2020
Creation Date:	7/9/2020
Receipt Date:	6/19/2020
Manifest ID:	021522035JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	3/26/2020
Creation Date:	5/7/2020
Receipt Date:	4/15/2020
Manifest ID:	016769048JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	12/3/2020
Creation Date:	1/19/2021
Receipt Date:	12/18/2020

PAP+ TRUCKS INC. (Continued) **S113148578**

Manifest ID:	020382395JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	10/13/2020
Creation Date:	12/1/2020
Receipt Date:	11/2/2020
Manifest ID:	021525638JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	1/31/2020
Creation Date:	3/5/2020
Receipt Date:	2/14/2020
Manifest ID:	020381884JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	WORLD OIL RECYCLING

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.374
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	1/31/2020
Creation Date:	3/13/2020
Receipt Date:	2/19/2020
Manifest ID:	020381838JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEM INC
TSDF EPA ID:	AZR000521146
Trans Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	c692b4a1-5907-4185-8a36-9259e7f65f61
Shipment Date:	8/6/2020
Receipt Date:	8/17/2020
Manifest Number:	021523693JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC. - FRENCH CAMP
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231-9600
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: c692b4a1-5907-4185-8a36-9259e7f65f61
Generator EPA ID: CAL000322107
Shipment Date: 2020-08-06
Manifest Number: 021523693JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.30000
Quantity Waste: 600.000000
Quantity Unit: P
Number of Containers: 4
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2020
EM Manifest ID: 0586a41a-7491-4144-b28e-758ec722f1c1
Shipment Date: 3/26/2020
Receipt Date: 4/15/2020
Manifest Number: 016769048JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231-9600
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 0586a41a-7491-4144-b28e-758ec722f1c1
Generator EPA ID: CAL000322107
Shipment Date: 2020-03-26

PAP+ TRUCKS INC. (Continued) **S113148578**

Manifest Number: 016769048JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.30000
Quantity Waste: 600.000000
Quantity Unit: P
Number of Containers: 4
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2020
EM Manifest ID: 873207
Shipment Date: 12/4/2019
Receipt Date: 12/17/2019
Manifest Number: 017695003JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS INC - PAP029
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 873207
Generator EPA ID: CAL000322107
Shipment Date: 2019-12-04
Manifest Number: 017695003JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.12500
Quantity Waste: 250.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2020
EM Manifest ID: 5ad20c73-6e9d-44ec-b4f0-cc369903b83a
Shipment Date: 10/13/2020

PAP+ TRUCKS INC. (Continued) **S113148578**

Receipt Date:	11/2/2020
Manifest Number:	021525638JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC.
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231-9600
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	5ad20c73-6e9d-44ec-b4f0-cc369903b83a
Generator EPA ID:	CAL000322107
Shipment Date:	2020-10-13
Manifest Number:	021525638JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.22500
Quantity Waste:	450.000000
Quantity Unit:	P
Number of Containers:	5
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2020
EM Manifest ID:	1096215
Shipment Date:	1/31/2020
Receipt Date:	2/19/2020
Manifest Number:	020381838JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC. - PAP029
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 1096215
Generator EPA ID: CAL000322107
Shipment Date: 2020-01-31
Manifest Number: 020381838JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Detail Two:
Year: 2019
EM Manifest ID: 667015
Shipment Date: 9/30/2019
Receipt Date: 10/7/2019
Manifest Number: 020380603JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231-9600
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 667015
Generator EPA ID: CAL000322107
Shipment Date: 2019-09-30
Manifest Number: 020380603JJK

PAP+ TRUCKS INC. (Continued) **S113148578**

Line Number: 1
Method Code: H141
Quantity Tons: 0.27500
Quantity Waste: 550.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2019
EM Manifest ID: 644868
Shipment Date: 8/22/2018
Receipt Date: 9/5/2018
Manifest Number: 018529051JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231-9600
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 541-341-3344
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 644868
Generator EPA ID: CAL000322107
Shipment Date: 2018-08-22
Manifest Number: 018529051JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.50000
Quantity Waste: 1000.000000
Quantity Unit: P
Number of Containers: 6
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2019
EM Manifest ID: 31439f76-a272-448c-ab30-774d148b0a46
Shipment Date: 8/1/2019
Receipt Date: 8/13/2019

PAP+ TRUCKS INC. (Continued) **S113148578**

Manifest Number:	020383293JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC.
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231-9600
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	31439f76-a272-448c-ab30-774d148b0a46
Generator EPA ID:	CAL000322107
Shipment Date:	2019-08-01
Manifest Number:	020383293JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2019
EM Manifest ID:	527546
Shipment Date:	7/19/2019
Receipt Date:	7/31/2019
Manifest Number:	020383166JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC - PAP029
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 527546
Generator EPA ID: CAL000322107
Shipment Date: 2019-07-19
Manifest Number: 020383166JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.18000
Quantity Waste: 360.000000
Quantity Unit: P
Number of Containers: 3
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2019
EM Manifest ID: 425376
Shipment Date: 6/5/2019
Receipt Date: 6/14/2019
Manifest Number: 018526941JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231-9600
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 425376
Generator EPA ID: CAL000322107
Shipment Date: 2019-06-05
Manifest Number: 018526941JJK
Line Number: 1
Method Code: H141

PAP+ TRUCKS INC. (Continued) **S113148578**

Quantity Tons:	0.37500
Quantity Waste:	750.000000
Quantity Unit:	P
Number of Containers:	5
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2019
EM Manifest ID:	340169
Shipment Date:	4/5/2019
Receipt Date:	4/19/2019
Manifest Number:	018531125JJK
Generator EPA ID:	CAL000322107
Name:	PAP TRUCKS, INC. PAP029
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231
Telephone:	800-424-9300
Contact:	Not reported
Contact Telephone:	209-337-7419
Transporter 1 EPA ID:	CAD028277036
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City:	YUMA
TSDF Zip:	85365
TSDF Telephone:	Not reported

State:

Year:	2019
EM Manifest ID:	340169
Generator EPA ID:	CAL000322107
Shipment Date:	2019-04-05
Manifest Number:	018531125JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.18000
Quantity Waste:	360.000000
Quantity Unit:	P
Number of Containers:	3
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2019
EM Manifest ID:	297276
Shipment Date:	2/6/2019
Receipt Date:	2/16/2019
Manifest Number:	016868630JJK
Generator EPA ID:	CAL000322107

PAP+ TRUCKS INC. (Continued) **S113148578**

Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231-9600
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 297276
Generator EPA ID: CAL000322107
Shipment Date: 2019-02-06
Manifest Number: 016868630JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.30000
Quantity Waste: 600.000000
Quantity Unit: P
Number of Containers: 5
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2019
EM Manifest ID: 692517
Shipment Date: 10/31/2019
Receipt Date: 11/7/2019
Manifest Number: 018170121JJK
Generator EPA ID: CAL000322107
Name: PAP TRUCKS, INC - PAP029
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZR000521146
TSDF Name: YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1: 6500 S US HIGHWAY 95

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365
TSDF Telephone: Not reported

State:
Year: 2019
EM Manifest ID: 692517
Generator EPA ID: CAL000322107
Shipment Date: 2019-10-31
Manifest Number: 018170121JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.25000
Quantity Waste: 500.000000
Quantity Unit: P
Number of Containers: 5
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Detail Two:
Year: 2018
EM Manifest ID: 006192817SKS20170908_D_1
Shipment Date: 9/8/2017
Receipt Date: 10/3/2017
Manifest Number: 006192817SKS
Generator EPA ID: CAL000322107
Name: PAPE TRUCKING INC
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 006192817SKS20170908_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-09-08
Manifest Number: 006192817SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06250

PAP+ TRUCKS INC. (Continued) **S113148578**

Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 006192817SKS20170908_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-09-08
Manifest Number: 006192817SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F003

Year: 2018
EM Manifest ID: 006192817SKS20170908_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-09-08
Manifest Number: 006192817SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F005

State:
Year: 2018
EM Manifest ID: 006192817SKS20170908_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-09-08
Manifest Number: 006192817SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 352

Year: 2018
EM Manifest ID: 95080
Shipment Date: 7/31/2018

PAP+ TRUCKS INC. (Continued) **S113148578**

Receipt Date:	8/22/2018
Manifest Number:	011837197FLE
Generator EPA ID:	CAL000322107
Name:	PAPE TRUCKING INC.
Address:	10998 S HARLAN RD
Address 2:	Not reported
City:	FRENCH CAMP
Zip:	95231
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	209-983-6970
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	UTD981552177
TSDF Name:	Clean Harbors Aragonite LLC
TSDF Address 1:	PO Box 1339
TSDF Address 2:	Not reported
TSDF City:	Grantsville
TSDF Zip:	84029
TSDF Telephone:	800-483-3718

Federal:

Year:	2018
EM Manifest ID:	95080
Generator EPA ID:	CAL000322107
Shipment Date:	2018-07-31
Manifest Number:	011837197FLE
Line Number:	1
Method Code:	H040
Quantity Tons:	0.15000
Quantity Waste:	300.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

Year:	2018
EM Manifest ID:	95080
Generator EPA ID:	CAL000322107
Shipment Date:	2018-07-31
Manifest Number:	011837197FLE
Line Number:	1
Method Code:	H040
Quantity Tons:	0.15000
Quantity Waste:	300.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F003

Year:	2018
EM Manifest ID:	95080
Generator EPA ID:	CAL000322107
Shipment Date:	2018-07-31

PAP+ TRUCKS INC. (Continued) **S113148578**

Manifest Number: 011837197FLE
Line Number: 1
Method Code: H040
Quantity Tons: 0.15000
Quantity Waste: 300.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: F005

State:
Year: 2018
EM Manifest ID: 95080
Generator EPA ID: CAL000322107
Shipment Date: 2018-07-31
Manifest Number: 011837197FLE
Line Number: 1
Method Code: H040
Quantity Tons: 0.15000
Quantity Waste: 300.000000
Quantity Unit: P
Number of Containers: 2
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2018
EM Manifest ID: 006100198SKS20170602_D_1
Shipment Date: 6/2/2017
Receipt Date: 6/24/2017
Manifest Number: 006100198SKS
Generator EPA ID: CAL000322107
Name: PAPE TRUCKING INC
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 006100198SKS20170602_D_1

PAP+ TRUCKS INC. (Continued) **S113148578**

Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001
Year:	2018
EM Manifest ID:	006100198SKS20170602_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D005
Year:	2018
EM Manifest ID:	006100198SKS20170602_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D006
Year:	2018
EM Manifest ID:	006100198SKS20170602_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F003

PAP+ TRUCKS INC. (Continued) **S113148578**

Year:	2018
EM Manifest ID:	006100198SKS20170602_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005

State:

Year:	2018
EM Manifest ID:	006100198SKS20170602_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2017-06-02
Manifest Number:	006100198SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	213

Year:	2018
EM Manifest ID:	006520322SKS20180502_D_1
Shipment Date:	5/2/2018
Receipt Date:	5/26/2018
Manifest Number:	006520322SKS
Generator EPA ID:	CAL000322107
Name:	PAPE TRUCKING INC
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NED981723513
TSDF Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Federal:

Year:	2018
EM Manifest ID:	006520322SKS20180502_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2018-05-02
Manifest Number:	006520322SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D001

Year:	2018
EM Manifest ID:	006520322SKS20180502_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2018-05-02
Manifest Number:	006520322SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F003

Year:	2018
EM Manifest ID:	006520322SKS20180502_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2018-05-02
Manifest Number:	006520322SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	F005

Year:	2018
EM Manifest ID:	006520322SKS20180502_D_1
Generator EPA ID:	CAL000322107
Shipment Date:	2018-05-02
Manifest Number:	006520322SKS
Line Number:	2
Method Code:	H040
Quantity Tons:	0.07500
Quantity Waste:	150.000000
Quantity Unit:	P
Number of Containers:	1

PAP+ TRUCKS INC. (Continued) **S113148578**

Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 2
Method Code: H040
Quantity Tons: 0.07500
Quantity Waste: 150.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D005

Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 2
Method Code: H040
Quantity Tons: 0.07500
Quantity Waste: 150.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D006

Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 2
Method Code: H040
Quantity Tons: 0.07500
Quantity Waste: 150.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F003

Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 2
Method Code: H040
Quantity Tons: 0.07500

PAP+ TRUCKS INC. (Continued) **S113148578**

Quantity Waste: 150.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F005

State:
Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 352

Year: 2018
EM Manifest ID: 006520322SKS20180502_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2018-05-02
Manifest Number: 006520322SKS
Line Number: 2
Method Code: H040
Quantity Tons: 0.07500
Quantity Waste: 150.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 213

Year: 2018
EM Manifest ID: 219932
Shipment Date: 12/3/2018
Receipt Date: 12/15/2018
Manifest Number: 016870048JJK
Generator EPA ID: CAL000322107
Name: PAPE TRUCKS INC PAP029
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231
Telephone: 800-424-9300
Contact: Not reported
Contact Telephone: 209-337-7419
Transporter 1 EPA ID: CAD028277036
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000175422
Transporter 2 Emergency Number: Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF EPA ID: AZR000515924
TSDF Name: YUMA YES WASTE TRANSFER FACILITY
TSDF Address 1: 2730 E 13TH ST
TSDF Address 2: Not reported
TSDF City: YUMA
TSDF Zip: 85365-1901
TSDF Telephone: Not reported

State:
Year: 2018
EM Manifest ID: 219932
Generator EPA ID: CAL000322107
Shipment Date: 2018-12-03
Manifest Number: 016870048JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.30000
Quantity Waste: 600.000000
Quantity Unit: P
Number of Containers: 5
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2018
EM Manifest ID: 006286421SKS20171117_D_1
Shipment Date: 11/17/2017
Receipt Date: 12/7/2017
Manifest Number: 006286421SKS
Generator EPA ID: CAL000322107
Name: PAPE TRUCKING INC
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Federal:
Year: 2018
EM Manifest ID: 006286421SKS20171117_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-11-17
Manifest Number: 006286421SKS
Line Number: 1

PAP+ TRUCKS INC. (Continued) **S113148578**

Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D001

Year: 2018
EM Manifest ID: 006286421SKS20171117_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-11-17
Manifest Number: 006286421SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F003

Year: 2018
EM Manifest ID: 006286421SKS20171117_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-11-17
Manifest Number: 006286421SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F005

State:
Year: 2018
EM Manifest ID: 006286421SKS20171117_D_1
Generator EPA ID: CAL000322107
Shipment Date: 2017-11-17
Manifest Number: 006286421SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 352

Year: 2018

PAP+ TRUCKS INC. (Continued) **S113148578**

EM Manifest ID: 186269
Shipment Date: 10/16/2018
Receipt Date: 11/8/2018
Manifest Number: 006776355SKS
Generator EPA ID: CAL000322107
Name: PAPE TRUCKING INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City: FRENCH CAMP
Zip: 95231
Telephone: 800-483-3718
Contact: Main Contact
Contact Telephone: 209-983-6970
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: Clean Harbors Environmental Services, Inc.
TSDF Address 1: 2247 South Highway 71
TSDF Address 2: Not reported
TSDF City: Kimball
TSDF Zip: 69145
TSDF Telephone: 800-483-3718

Federal:
Year: 2018
EM Manifest ID: 186269
Generator EPA ID: CAL000322107
Shipment Date: 2018-10-16
Manifest Number: 006776355SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.05000
Quantity Waste: 100.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D001

Year: 2018
EM Manifest ID: 186269
Generator EPA ID: CAL000322107
Shipment Date: 2018-10-16
Manifest Number: 006776355SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.05000
Quantity Waste: 100.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D005

Year: 2018
EM Manifest ID: 186269

PAP+ TRUCKS INC. (Continued) **S113148578**

Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D006

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D007

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D008

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D035

PAP+ TRUCKS INC. (Continued) **S113148578**

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F003

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F005

State:

Year:	2018
EM Manifest ID:	186269
Generator EPA ID:	CAL000322107
Shipment Date:	2018-10-16
Manifest Number:	006776355SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	213

Additional Info:

Year:	2017
Gen EPA ID:	CAL000322107

Shipment Date:	20171218
Creation Date:	8/7/2018 18:30:40
Receipt Date:	20171229
Manifest ID:	018237501JJK
Trans EPA ID:	CAD028277036

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.18
Waste Quantity:	360
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171127
Creation Date:	8/10/2018 18:30:35
Receipt Date:	20171215
Manifest ID:	018236535JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.225
Waste Quantity:	450
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171127
Creation Date:	8/7/2018 18:30:18
Receipt Date:	20171215
Manifest ID:	018236534JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171117
Creation Date:	9/28/2018 18:30:17
Receipt Date:	20171207
Manifest ID:	006286421SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171011
Creation Date:	5/30/2018 18:30:45
Receipt Date:	20171024
Manifest ID:	016774229JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170908
Creation Date:	10/11/2018 18:31:58
Receipt Date:	20171003
Manifest ID:	006192817SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SVC INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170602
Creation Date:	10/10/2018 18:30:31
Receipt Date:	20170624
Manifest ID:	006100198SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES INC
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.05
Waste Quantity:	100
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20170602
Creation Date:	5/18/2018 18:30:34

PAP+ TRUCKS INC. (Continued) **S113148578**

Receipt Date:	20170612
Manifest ID:	016869874JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170602
Creation Date:	5/18/2018 18:30:34
Receipt Date:	20170612
Manifest ID:	016869877JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.24
Waste Quantity:	480
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170403
Creation Date:	5/4/2018 18:30:58
Receipt Date:	20170413
Manifest ID:	016772749JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans Name:	US ECOLOGY VERNON INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.36
Waste Quantity:	720
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2016
Gen EPA ID:	CAL000322107
Shipment Date:	20150918
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20151001
Manifest ID:	014646563JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150918
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20151001
Manifest ID:	014646563JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150518
Creation Date:	8/31/2015 22:15:34
Receipt Date:	20150528
Manifest ID:	014058281JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150515
Creation Date:	11/25/2015 22:15:37
Receipt Date:	20150603
Manifest ID:	004764625SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	F003

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150303
Creation Date:	6/23/2015 22:15:22
Receipt Date:	20150317
Manifest ID:	013804585JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150217
Creation Date:	5/18/2015 22:15:07
Receipt Date:	20150302
Manifest ID:	013802880JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015

PAP+ TRUCKS INC. (Continued) **S113148578**

Gen EPA ID:	CAL000322107
Shipment Date:	20150918
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20151001
Manifest ID:	014646563JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150918
Creation Date:	12/15/2015 22:15:14
Receipt Date:	20151001
Manifest ID:	014646563JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150518
Creation Date:	8/31/2015 22:15:34
Receipt Date:	20150528
Manifest ID:	014058281JJK
Trans EPA ID:	CAD028277036

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150515
Creation Date:	11/25/2015 22:15:37
Receipt Date:	20150603
Manifest ID:	004764625SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000513770
Trans 2 Name:	SLT
TSDF EPA ID:	NED981723513
Trans Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F005
Meth Code:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	F003
Additional Code 2:	D001
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20150303
Creation Date:	6/23/2015 22:15:22
Receipt Date:	20150317
Manifest ID:	013804585JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste

PAP+ TRUCKS INC. (Continued) **S113148578**

RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.4587
Waste Quantity: 110
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150217
Creation Date: 5/18/2015 22:15:07
Receipt Date: 20150302
Manifest ID: 013802880JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD097030993
Trans Name: EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.15
Waste Quantity: 300
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAL000322107

Shipment Date: 20141010
Creation Date: 1/2/2015 22:15:10
Receipt Date: 20141021
Manifest ID: 013807967JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO / KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

PAP+ TRUCKS INC. (Continued) **S113148578**

Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140827
Creation Date:	10/31/2014 22:14:44
Receipt Date:	20140909
Manifest ID:	011827671JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140827
Creation Date:	10/31/2014 22:14:44
Receipt Date:	20140909
Manifest ID:	011827671JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 5:	Not reported
Shipment Date:	20140508
Creation Date:	7/22/2014 22:15:05
Receipt Date:	20140520
Manifest ID:	013079136JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	EVOQUA WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140115
Creation Date:	3/6/2014 22:15:20
Receipt Date:	20140127
Manifest ID:	012424085JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140113
Creation Date:	3/6/2014 22:15:20
Receipt Date:	20140127
Manifest ID:	012424008JJK
Trans EPA ID:	CAD028277036

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.015
Waste Quantity:	30
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20140103
Creation Date:	3/2/2014 22:15:06
Receipt Date:	20140113
Manifest ID:	012424980JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.80064
Waste Quantity:	192
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAL000322107

Shipment Date:	20131209
Creation Date:	5/20/2014 22:14:51
Receipt Date:	20131227
Manifest ID:	003963665SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	AZR000508515
Trans 2 Name:	SLT

PAP+ TRUCKS INC. (Continued) **S113148578**

TSDF EPA ID: UTD981552177
Trans Name: CLEAN HARBORS ARAGONITE LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D007
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130405
Creation Date: 9/15/2013 22:15:19
Receipt Date: 20130422
Manifest ID: 003069030SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: OKD981588791
Trans 2 Name: TRIAD TRANSPORT INC
TSDF EPA ID: TXD077603371
Trans Name: SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: D007
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20130326
Creation Date: 5/5/2013 22:15:17
Receipt Date: 20130327
Manifest ID: 008643953JJK
Trans EPA ID: CAD982413262
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD980887418
Trans Name: EVERGREEN OIL INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 181 - Other inorganic solid waste Organics
RCRA Code: D007
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

PAP+ TRUCKS INC. (Continued) **S113148578**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130318
Creation Date:	5/3/2013 22:15:37
Receipt Date:	20130321
Manifest ID:	008643907JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.
RCRA Code:	D018
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.693
Waste Quantity:	210
Quantity Unit:	G
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130215
Creation Date:	4/14/2013 22:15:06
Receipt Date:	20130221
Manifest ID:	008643842JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130110
Creation Date:	3/13/2013 22:15:46
Receipt Date:	20130117
Manifest ID:	008643800JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAL000322107
Shipment Date:	20121231
Creation Date:	2/17/2013 22:15:06
Receipt Date:	20121231
Manifest ID:	009434187JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	5.48355
Waste Quantity:	1315
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Shipment Date:	20121228
Creation Date:	3/7/2013 22:15:18
Receipt Date:	20130103
Manifest ID:	008643644JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.175
Waste Quantity:	350
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20121107
Creation Date:	4/17/2013 22:15:43
Receipt Date:	20121127
Manifest ID:	003432530SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120606
Creation Date:	9/17/2012 22:15:10
Receipt Date:	20120612
Manifest ID:	008642907JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120606
Creation Date:	9/17/2012 22:15:10
Receipt Date:	20120612
Manifest ID:	008642907JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20120606
Creation Date:	9/17/2012 22:15:10
Receipt Date:	20120612
Manifest ID:	008642907JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008

PAP+ TRUCKS INC. (Continued) **S113148578**

Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D004
Additional Code 5:	Not reported
Shipment Date:	20120523
Creation Date:	5/30/2013 22:15:07
Receipt Date:	20120611
Manifest ID:	003048527SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	OKD981588791
Trans 2 Name:	TRIAD TRANSPORT INC
TSDF EPA ID:	TXD077603371
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D007
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120523
Creation Date:	5/28/2013 22:15:05
Receipt Date:	20120604
Manifest ID:	003150542SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120503
Creation Date:	7/16/2012 20:30:20
Receipt Date:	20120508
Manifest ID:	008642888JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D006
Additional Code 3:	D005
Additional Code 4:	D004
Additional Code 5:	Not reported
Shipment Date:	20120319
Creation Date:	5/5/2012 20:30:13
Receipt Date:	20120321
Manifest ID:	008643305JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980887418
Trans Name:	EVERGREEN OIL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	4.00737
Waste Quantity:	961
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	PAP TRUCKS, INC.
Address:	10998 S HARLAN RD

PAP+ TRUCKS INC. (Continued) **S113148578**

City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 399090
CERS ID: 10159715
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-09-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Conducted a Hazardous Materials Business Plan (HMBP) inspection. There were no violations found during the inspection. The sales center, truck shop, oil room, paint booth, and body shop were all areas that have been inspected. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-10-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations found at time of inspection. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 399090
Facility Name: Pap Trucks, Inc.
Env Int Type Code: APSA
Program ID: 10159715
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.856570
Longitude: -121.277520

Affiliation:
Affiliation Type Desc: Operator

PAP+ TRUCKS INC. (Continued) **S113148578**

Entity Name:	Pap TRUCKS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 983-6970,
Affiliation Type Desc:	Document Preparer
Entity Name:	Janet Bianchin (Consultant)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Janet Bianchin
Entity Title:	Not reported
Affiliation Address:	1300 Market Street, Suite 201
Affiliation City:	Redding
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	96001
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10998 S Harlan Rd.
Affiliation City:	French Camp
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95231
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	Pap Group
Entity Title:	Not reported
Affiliation Address:	PO Box 407
Affiliation City:	Eugene
Affiliation State:	OR
Affiliation Country:	United States
Affiliation Zip:	97440
Affiliation Phone:	(541) 341-3344,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232

PAP+ TRUCKS INC. (Continued) **S113148578**

Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Identification Signer
Entity Name: Janet Bianchin
Entity Title: Environmental Consultant for Pap SW
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: Pape Trucks, Inc. DBA Pape Kenworth
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

HWTS:
Name: PAP+ TRUCKS, INC.
Address: 10998 S HARLAN RD
Address 2: Not reported
City,State,Zip: FRENCH CAMP, CA 95231
EPA ID: CAL000322107
Inactive Date: Not reported
Create Date: 07/11/2007
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 407
Mailing Address 2: Not reported
Mailing City,State,Zip: EUGENE, OR 974400407
Owner Name: PAPE GROUP INC
Owner Address: PO BOX 407
Owner Address 2: Not reported
Owner City,State,Zip: EUGENE, OR 974400407
Contact Name: JANET KING
Contact Address: 355 GOODPASTURE ISLAND RD.
Contact Address 2: Not reported
City,State,Zip: EUGENE, OR 97401
Facility Status: Active
Facility Type: PERMANENT
Category: STATE
Latitude: 37.857194
Longitude: -121.280694

NAICS:
EPA ID: CAL000322107
Create Date: 2007-07-11 13:12:43.680
NAICS Code: 42111
NAICS Description: Automobile and Other Motor Vehicle Wholesalers
Issued EPA ID Date: 2007-07-11 13:12:43.66300
Inactive Date: Not reported

PAP+ TRUCKS INC. (Continued) **S113148578**

Facility Name:	PAP TRUCKS, INC.
Facility Address:	10998 S HARLAN RD
Facility Address 2:	Not reported
Facility City:	FRENCH CAMP
Facility County:	Not reported
Facility State:	CA
Facility Zip:	952319600

B11 **BENETO TANK LINE** **UST** **U004023353**
ENE **10998 S HARLAN RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.165 mi.
872 ft. **Site 4 of 6 in cluster B**

Relative: **Higher**
Actual: **17 ft.**

UST SAN JOAQUIN:

Name:	BENETO TANK LINE
Address:	10998 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Region:	SJ
Facility Id:	FA0004559
Mail Address:	4076 SEAPORT BLVD
Mail Address 2:	Not reported
Mail Care of:	STEVE BENETO
Mail City,St,Zip:	WEST SACRAMENTO, CA 95691
Tank Rec ID:	TA0236301
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	15000
Product Type Desc:	03 - DIESEL
Program Element:	2362
Decode for Program Element:	2362 - UST FACILITY & 1 TANK
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	Not reported
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	6/1/1993
Date of Closure:	Not reported
Latitude:	Not reported
Longitude:	Not reported

B12 **PAP TRUCKS, INC.** **RCRA NonGen / NLR** **1024817650**
ENE **10998 S HARLAN RD** **CAL000322107**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.165 mi.
872 ft. **Site 5 of 6 in cluster B**

Relative: **Higher**
Actual: **17 ft.**

RCRA Listings:

Date Form Received by Agency:		20070711
Handler Name:	PAP TRUCKS, INC.	
Handler Address:		10998 S HARLAN RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231-9600
EPA ID:		CAL000322107

PAP TRUCKS, INC. (Continued) **1024817650**

Contact Name:		DAN RADONSKI
Contact Address:		PO BOX 407
Contact City,State,Zip:		EUGENE, OR 97440
Contact Telephone:		541-341-3344
Contact Fax:		541-633-7530
Contact Email:		DRADONSKI@PAPE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 407
Mailing City,State,Zip:		EUGENE, OR 97440-0000
Owner Name:	PAPE GROUP INC	
Owner Type:		Other
Operator Name:	DAN RADONSKI	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No

PAP TRUCKS, INC. (Continued) **1024817650**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAN RADONSKI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 407
Owner/Operator City,State,Zip:	EUGENE, OR 97440
Owner/Operator Telephone:	541-341-3344
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: PAPE GROUP INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 407
Owner/Operator City,State,Zip:	EUGENE, OR 97440-0000
Owner/Operator Telephone:	541-683-5073
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20070711
Handler Name: PAP TRUCKS, INC.	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

PAP TRUCKS, INC. (Continued) **1024817650**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42111
NAICS Description: AUTOMOBILE AND OTHER MOTOR VEHICLE WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B13 **PAP TRUCKS, INC.** **AST** **A100423148**
ENE **10998 S HARLAN RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.165 mi.
872 ft. **Site 6 of 6 in cluster B**

Relative: **Higher**
Actual: **17 ft.**

AST:
Name: PAP TRUCKS, INC.
Address: 10998 S HARLAN RD
City/Zip: FRENCH CAMP,95231
Certified Unified Program Agencies: Not reported
Owner: Pap GROUP
Total Gallons: Not reported
CERSID: 10159715
Facility ID: FA0010523
Business Name: Pape Trucks, Inc. DBA Pape Kenworth
Phone: (209) 983-6970
Fax: Not reported
Mailing Address: 10998 S HARLAN RD
Mailing Address City: FRENCH CAMP
Mailing Address State: CA
Mailing Address Zip Code: 95231
Operator Name: Pap TRUCKS
Operator Phone: (209) 983-6970
Owner Phone: (541) 341-3344
Owner Mail Address: PO BOX 407
Owner State: OR
Owner Zip Code: 97440
Owner Country: United States
Property Owner Name: STEVEN BENETO
Property Owner Phone: Not reported
Property Owner Mailing Address: P.O. BOX 1496
Property Owner City: W. SACRAMENTO
Property Owner Stat : CA
Property Owner Zip Code: 95691
Property Owner Country: United States
EPAID: CAL000322107

A14 **FLYING J TRAVEL CENTER LATHROP - 1017** **CERS HAZ WASTE** **S123519404**
ENE **345 E ROTH RD** **CERS TANKS** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231** **CERS**
0.171 mi.
905 ft. **Site 7 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

CERS HAZ WASTE:
Name: FLYING J TRAVEL CENTER LATHROP - 1017
Address: 345 E ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 424229
CERS ID: 10726990
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: FLYING J TRAVEL CENTER LATHROP - 1017
Address: 345 E ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 424229
CERS ID: 10726990
CERS Description: Aboveground Petroleum Storage

Name: FLYING J TRAVEL CENTER LATHROP - 1017
Address: 345 E ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 424229
CERS ID: 10726990
CERS Description: Underground Storage Tank

CERS:
Name: FLYING J TRAVEL CENTER LATHROP - 1017
Address: 345 E ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 424229
CERS ID: 10726990
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 08/19/2021. OBSERVATION: Designated facility signed and dated copies of Uniform Hazardous Waste Manifests (UHWM) were not found on-site. The missing manifests are: - 020116125JJK - 020116130JJK - 020116253JJK - 020116256JJK - 020116388JJK - 020116384JJK - 021591546JJK - 021591533JJK - 021591665JJK - 021591664JJK - 022026015JJK - 022026020JJK - 022026153JJK - 022026144JJK - 022026269JJK - 022026406JJK - 022973557JJK REGULATION GUIDANCE: A hazardous waste generator shall keep a copy of each manifest signed in accordance with section 66262.23(a) for three years or until the generator receives a signed copy from the designated facility which received the waste. This signed copy shall be retained

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

as a record for at least three years from the date the waste was accepted by the initial transporter. The hazardous waste generator must submit a copy of the manifest to the California Department of Toxic Substances Control (DTSC) within 60 days if the destination facility signed mani

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-11-2022
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Returned to compliance on 09/16/2022. OBSERVATION: Fees for the annual permit to operate the UST system were paid late. The payment was received by the EHD on 2/17/2022. The facility operated without a permit from 1/1/2022 through 2/17/2022. REGULATION GUIDANCE: No person may own or operate an UST unless a permit for its operation has been issued by the local agency to the owner or operator of the UST system. CORRECTIVE ACTION: Ensure that all operating permits moving forward are obtained within the required time frame. Submit a corrective action statement to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: 40 CFR 1 262.34(d)(5)(i) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(i)
Violation Description: Failure to have at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures.
Violation Notes: Returned to compliance on 11/23/2021. OBSERVATION: The emergency coordinator listed was Doug Humphries. Doug Humphries is no longer employed at this facility. REGULATION GUIDANCE: The emergency coordinator or his designee must respond to any emergencies that arise. The business operator must post the following information next to telephones or in areas directly involved in the generation and accumulation of hazardous waste: the name and emergency telephone number of the emergency coordinator, the location of fire extinguishers and spill control material, and the telephone number of the fire department unless the facility has a direct alarm. CORRECTIVE ACTION: Immediately post the required information at the facility. Provide a statement to the San Joaquin County Environmental Health Department that the correction is complete.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes:	OBSERVATION: The Spill Prevention, Control, and Countermeasure (SPCC) Plan does not adequately discuss procedures for reporting a discharge. On Page 2-14 of the SPCC Plan an incorrect phone number was listed for the CUPA. No facility response coordinator was listed in the SPCC Plan. REGULATION GUIDANCE: The SPCC plan shall include: (vi) Contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all appropriate Federal, State, and local agencies who must be contacted in case of a discharge as described in 112.1(b). (4) Unless you have submitted a response plan under 112.20, provide information and procedures in your Plan to enable a person reporting a discharge as described in 112.1(b) to relate information on the exact address or location and phone number of the facility; the date and time of the discharge, the type of material discharged; estimates of the total quanti
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description:	Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes:	Returned to compliance on 08/19/2021. OBSERVATION: - Tanks T3, T5, and T9 were observed leaking from the piping after the pump parallel to the ground. - Oily absorbent was observed on the ground around the diesel delivery pipes of the eastern tank farm. REGULATION GUIDANCE: A hazardous waste generator must maintain and operate its facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. CORRECTIVE ACTION: Immediately fix the leak and cleanup diesel and oily absorbent. Manage the waste according to Title 22 California Code of Regulations for hazardous waste. Submit a statement and supporting documentation to the San Joaquin County Environmental Health Department describing the storage and final disposition of the cleaned up waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards: 1. On a regular schedule. 2. After material repairs are made. 3. By qualified personnel. 4. The frequency and type of testing and inspections based on container size, configuration, and design.
Violation Notes:	OBSERVATION: The Spill Prevention, Control, and Countermeasure (SPCC) Plan does not adequately discuss procedures to test or inspect each aboveground container for integrity in accordance with industry standards and does not address the following: The SP001 standard which was cited in the SPCC Plan requires annual inspections. The SPCC Plan reviewed on site only requires monthly inspections. REGULATION GUIDANCE: (c)(6) Test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. You must determine, in accordance with industry standards, the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspections, which take into account container size, configuration, and design (such as containers that are: shop-built, field-erected, skid-mounted, elevated, equipped with a liner, double-walled, or partially buried). Examples of these integrity tests include, but are not l
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,

Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-18-2021
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 09/17/2021. OBSERVATION: Liquid was observed in the following: - Approximately two cups in the 87 fill sump. - Approximately half a cup in the STP sump. - Approximately one cup in 91 STP sump. - Approximately one cup in the 91 fill sump. REGULATION GUIDANCE: Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. CORRECTIVE ACTION: Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage accordingly. Immediately contact a properly licensed, trained, and certified contractor to address the liquid intrusion into the sumps under permit and inspection of the EHD, if needed.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-23-2018
Citation:	HSC 6.7 25290.2(c) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.2(c)

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 09/21/2018. The fuel filters under the dispensers are not located to allow drips and leaks to drain back into the UDC. Secondary containment shall be provided for all single-walled UST components. Immediately provide approved secondary containment for the filters under permit and inspection by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-11-2022
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 09/16/2022. OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the 5/31/2022 designated operator inspection report and failed to check that they were responded to appropriately. The missing alarms include: -L13 (dispenser 1-2) fuel alarm on 5/9/2022. REGULATION GUIDANCE: During the inspection, the designated operator shall review the alarm history since the previous inspection, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the inspection report. CORRECTIVE ACTION: Ensure that designated operators performing inspections at this facility are including all of the required information on the reports.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to use containers with material and construction compatible with material stored and conditions of storage such as pressure and temperature.
Violation Notes:	OBSERVATION: Failed to use containers with material and construction compatible with material stored and conditions of storage such as

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

pressure and temperature. - The SPCC Plan does not discuss if petroleum products are compatible with containers and storage conditions. - Tanks T3, T5, and T9 were observed leaking from the piping after the pump parallel to the ground. REGULATION GUIDANCE: (c)(1) Not use a container for the storage of oil unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature. CORRECTIVE ACTION: Immediately remove all oil stored in non-compatible containers. Store oil in containers with material and construction compatible with the material stored and conditions of storage such as pressure and temperature. Ensure that the SPCC plan is adequate for the facility. Submit proof of correction to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-27-2019
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes: Returned to compliance on 09/25/2019. Approximately, 1 cup of liquid was found in the UDC 9/10 sump, indicating a leak in the primary piping. According Jose R., the flex connector in the UDC has been leaking and the facility is in the process of fixing the issue. All primary containment for the UST system must be tight. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-18-2021
Citation: 23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description: Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 09/17/2021. OBSERVATION: The Facility Employee Training Certificates dated 02-10-2021 and 06-02-2021 have incorrect initial training dates and incorrect dates of assuming responsibility for the listed employees. REGULATION GUIDANCE: All site employees must be trained prior to taking responsibility as a facility employee if after October 1, 2018, or within 30 days of hire if prior to October 1, 2018. The Facility Employee Training Certificate shall contain accurate information for all employees trained. CORRECTIVE ACTION: Update the Facility Employee Training Certificate to contain the accurate information and submit a copy of the updated form to the EHD.
Violation Division: San Joaquin County Environmental Health

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-18-2021
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 09/17/2021. OBSERVATION: The mechanical flapper used as the overfill prevention system is not currently functional on the 87 UST. REGULATION GUIDANCE: All UST systems must be equipped with an approved, functional overfill prevention device at all times during delivery operations. CORRECTIVE ACTION: Immediately discontinue deposition of petroleum into this tank until the component is repaired or replaced by a properly licensed, trained, and certified contractor under permit and inspection of the EHD. If the failed component can t be replaced immediately, there is a possibility that the 87 UST system may be red tagged to prevent fuel inputs.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/19/2021. OBSERVATION: Hazardous waste

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

containers were observed on-site with incomplete labeling. The containers were: - One blue 55-gallon drum containing waste DEF was missing hazardous property. - Three black 30-gallon drums containing fuel-contaminated absorbent were missing hazardous properties. - One black 30-gallon drum containing B20 was missing hazardous property. - One 55-gallon drum was observe with a blank hazardous waste label. REGULATION GUIDANCE: All hazardous waste containers shall be marked with the following information: the words Hazardous Waste , name and address of generator, hazardous properties, physical state, composition (contents), accumulation start date CORRECTIVE ACTION: Immediately label the containers as required for hazardous waste. Provide a corrective action statement and supporting documentation to the San Joaquin County Environmental Health Department (EHD) within 30 days.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 03-30-2018
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes: Returned to compliance on 04/27/2018. Only one training record was found for an oil handling personnel. The other training documents provided did not include contents of the SPCC plan. At a minimum, oil handling personnel shall be trained in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and the contents of the Spill Prevention, Control, and Countermeasure Plan. Immediately provide this training to all oil handling personnel and submit a copy of the training log to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-18-2021
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes: Returned to compliance on 09/17/2021. OBSERVATION: Approximately 1/2 cup of liquid was observed in UDC 1/2 and UDC 9/10. REGULATION GUIDANCE: All primary containment for the UST system must be product tight. CORRECTIVE ACTION: Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component(s), under permit and inspection of the EHD if necessary.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-27-2019
Citation:	23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description:	"Failure to submit a copy of the overfill prevention equipment inspection results on the Overfill Prevention Equipment Inspection Report Form to the UPA within 30 days after the inspection. "
Violation Notes:	Returned to compliance on 09/25/2019. Overfill prevention testing was performed on 10/11/2018 and a test report was submitted on 11/13/2018, 33 days later. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/19/2021. OBSERVATION: This business did not provide a written response to the inspection report dated 3/29/18 within 30 days. The report was delivered to the business on 3/29/18. REGULATION GUIDANCE: The operator of the site or facility which receives an inspection report shall submit a written response to the department or the local officer or agency authorized to enforce this chapter pursuant to subdivision (a) of Section 25180 within 60 days of receipt of the inspection report, or within a shorter time as the department or the local officer or agency may reasonably require, which shall include a statement documenting corrective actions taken by the operator or proposing corrective actions which will be taken by the operator, for purposes of compliance with this chapter, or disputing the existence of the violation. The local agency, the San Joaquin County Environmental Health Department, requires response within 30 days. CORRECTIVE ACTION: Provide a corrective action statement and s
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with one or more of the following requirements: 1. Have record of inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. 3. Keep comparison records.
Violation Notes:	OBSERVATION: The facility failed to comply with the following

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

requirements: - Have a record of inspections and integrity tests signed by the appropriate supervisor or inspector. The monthly inspection dated 01-14-2019 was missing the inspector signature. REGULATION GUIDANCE: 112.7(e) Conduct inspections and tests required by this part in accordance with written procedures that you or the certifying engineer develop for the facility. You must keep these written procedures and a record of the inspections and tests, signed by the appropriate supervisor or inspector, with the SPCC Plan for a period of three years. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph. 112.8(c)(6) Test or inspect each aboveground container for integrity on a regular schedule and whenever you make material repairs. You must determine, in accordance with industry standards, the appropriate qualifications for personnel perform

Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-25-2020
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/18/2021. OBSERVATION: The Current financial responsibility documents were not found on site. REGULATION GUIDANCE: A copy of current financial responsibility documents are required to be maintained on site. CORRECTIVE ACTION: Immediately obtain a copy of the facility's financial responsibility documents and maintain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to complete and maintain at the facility the Substantial Harm Criteria certification form when owner or operator determines that the facility could not be reasonably expected to cause substantial harm to the environment.
Violation Notes: OBSERVATION: The facility failed to complete and maintain (at the facility) the Substantial Harm Criteria certification form. REGULATION GUIDANCE: (e) If the owner or operator of a facility determines pursuant to paragraph (a)(2) of this section that the facility could not, because of its location, reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters or adjoining shorelines, the owner or operator shall complete and maintain at the facility the certification form contained in appendix C to this part and, in the event an alternative formula that is comparable to one contained in appendix C to this part is used to evaluate the criterion in paragraph (f)(1)(ii)(B) or (f)(1)(ii)(C) of this section, the owner or operator shall attach documentation to the certification form that demonstrates the reliability and

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

analytical soundness of the comparable formula and shall notify the Regional Administrator in writing that an alter
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to regularly test liquid level sensing devices to ensure proper operation.
Violation Notes: OBSERVATION: The SPCC Plan does not discuss regular testing of liquid level sensing devices. REGULATION GUIDANCE: (c)(8)(v) You must regularly test liquid level sensing devices to ensure proper operation. CORRECTIVE ACTION: Liquid level sensing devices must be installed in accordance with CFR 112.8 and shall be regularly tested to ensure proper operation. Ensure the SPCC Plan discusses the schedule of testing of liquid level sensing devices and submit proof to EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-18-2021
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 09/17/2021. OBSERVATION: An approved copy of the response plan was not available for inspection. Response plan dated 8-25-2017 was observed on-site. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 03-30-2018
Citation: HSC 6.5 25160(b)(1)(C) - California Health and Safety Code, Chapter 6.5, Section(s) 25160(b)(1)(C)
Violation Description: Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste.
Violation Notes: Returned to compliance on 07/20/2021. Generator copies of manifest numbers 017497085JJK, 017497086JJK, 017497224JJK, 017497225JJK were not sent to DTSC within 30 days of shipment of hazardous waste. The generator manifest copy shall be submitted to DTSC for every shipment on a manifest when California is either the generator state or the destination or consignment state. The generator manifest copy shall be mailed to: DTSC Generator Manifests P.O. Box 400 Sacramento, CA 95812-0400 Immediately mail a copy of the manifests listed and ensure that copies of all generator manifests are sent to DTSC within 30 days of shipping hazardous waste.

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Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-25-2020
Citation:	23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description:	"Failure to submit a copy of the overfill prevention equipment inspection results on the Overfill Prevention Equipment Inspection Report Form to the UPA within 30 days after the inspection. "
Violation Notes:	Returned to compliance on 08/18/2021. OBSERVATION: Overfill prevention testing was performed on 07/22/2020. A test report has not been submitted to the EHD or the California Environmental Reporting System (CERS). REGULATION GUIDANCE: A copy of the 'Overfill prevention Testing Report Form' must be submitted within 30 days of the test. CORRECTIVE ACTION: Immediately provide this report to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-23-2018
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes:	Returned to compliance on 09/21/2018. The fuel filters under the dispensers are not located to allow drips and leaks to drain back into the UDC. The underground storage tank system shall be operated to prevent unauthorized releases. Immediately provide approved secondary containment for the filters under permit and inspection by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-27-2019
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

	days.
Violation Notes:	Returned to compliance on 09/25/2019. The designated operator failed to check and note all required items on the visual inspection reports. -On the 10/24/2018-5/7/2019 monthly inspection reports, the NA in sections VII through XI were not fully explained in Section III of the reports. During the visual inspection, the designated operator shall check all required testing and maintenance for the UST system have been completed and shall check all required items on the report. Ensure that designed operators performing visual inspections at this facility are including all of the required information on the reports.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to address in the SPCC Plan disposal methods for recovered materials.
Violation Notes:	OBSERVATION: The Spill Prevention, Control, and Countermeasure (SPCC) Plan failed to address disposal methods for recovered materials. Page 2-11 of the SPCC Plan says, "Disposal of these materials will conform to the regulatory requirements for non-hazardous solid wastes found in 40 CFR 257 and 40 CFR 258." California Title 22 regulations were not addressed for the disposal of these wastes. REGULATION GUIDANCE: The SPCC plan shall include: (v) Methods of disposal of recovered materials in accordance with applicable legal requirements. CORRECTIVE ACTION: The SPCC Plan shall address all disposal methods for recovered materials. Ensure that the SPCC plan addresses disposal for recovered materials in accordance with applicable legal requirements, submit proof of correction to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	03-30-2018
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to perform integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement.
Violation Notes:	Returned to compliance on 04/27/2018. The site provided a volumetric line test report performed by company Jones Covey on 8/25/17. During the inspection, I called Jones Covey, and spoke to the tank tester, Isaac Garcia. Isaac informed me that the testing was only performed on the diesel aboveground storage tanks from the biodiesel shed to the dispensers. Line tightness testing will need to be performed on buried piping from the biodesel shed to all aboveground storage tanks. Buried piping shall be tested for integrity and leaks at the time of installation, modification, construction, relocation, or replacement. Immediately perform integrity and leak testing of this piping and ensure that piping is tested when required, or provide equivalence as allowed by CFR 112.7(a)(2).

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	03-30-2018
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes:	Returned to compliance on 03/30/2018. The phone number for San Joaquin County Environmental Health Department (SJCEHD) listed in the site's SPCC plan is 209-468-3451; which is the phone number for the assistant director, Kasey Foley. The phone number should be 209-468-3420, which is for EHD front desk. The following shall be addressed in the Spill Prevention, Control, and Countermeasure (SPCC) Plan: - contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors, and all appropriate Federal, State, and local agencies. Immediately amend the SPCC Plan to include all required information. During the inspection, site personnel changed the phone number. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 07/20/2021. OBSERVATION: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. 2019, 2020, and 2021 HMBP submittal were submitted late in CERS. REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	03-30-2018
Citation:	HSC 6.5 25123.3(h)(2) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(2)
Violation Description:	Failure to determine the status of any hazardous waste if a signed

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

	copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 60 days of the date the waste was accepted by the initial transporter.
Violation Notes:	Returned to compliance on 07/20/2021. Manifest numbers 017497085JJK, 017497086JJK, 017497224JJK, 017497225JJK were found without a signed off copy from the destination facility. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifests or prepare and submit the required information to DTSC. Submit to
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-23-2018
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 09/21/2018. The monitoring plan is not current and/or not approved by the EHD. The plans for both tanks incorrectly state the leak detectors are VMI LD 3000. The leak detectors observed on site are VMI 99 LD 2000. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-25-2020
Citation:	HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description:	Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes:	Returned to compliance on 08/18/2021. OBSERVATION: Leaking meter was observed in UDC 1/2 and small amount of liquid was observed in UDC 9/10, indicating a leak in the primary containment. REGULATION GUIDANCE: All primary containment for the UST system must be product tight. CORRECTIVE ACTION: Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component(s), under permit and inspection of the EHD if necessary.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes: Returned to compliance on 08/18/2021. OBSERVATION: Facility could not provide the current Emergency Response Plan and the inventory information upon request. REGULATION GUIDANCE: The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. CORRECTIVE ACTION: Immediately make arrangements to have the business plan readily available for review.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/18/2021. OBSERVATION: The site map is incomplete. The following items were missing or inaccurate on the site map: - Internal Roads - Adjacent Streets - Access and Exit Points - Loading/Unloading areas for the ASTs, USTs, and CO2 tanks - Fire Extinguishers, storm drains, and fuel emergency stop button are inaccurate on the site map REGULATION GUIDANCE: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-11-2022
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 09/09/2022. OBSERVATION: Water was found in

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

the 87 submersible turbine pump (STP) sump. REGULATION GUIDANCE: Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. CORRECTIVE ACTION: The service technician removed approximately one cup of liquid from the 87 STP sump and returned the sensor to its proper location. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the 87 STP sump under permit and inspection of the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 07-20-2021
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description: Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation.
Violation Notes: OBSERVATION: The facility failed to amend the Spill Prevention, Control, and Countermeasure (SPCC) Plan within six months of when there was a change in design, construction, operation, or maintenance, which affects the facility s discharge potential. All four tanks in both of the tank farms were observed manifolded together. This was not discussed in the SPCC Plan. REGULATION GUIDANCE: (a) Amend the SPCC Plan for your facility in accordance with the general requirements in 112.7, and with any specific section of this part applicable to your facility, when there is a change in the facility design, construction, operation, or maintenance that materially affects its potential for a discharge as described in 112.1(b). Examples of changes that may require amendment of the Plan include, but are not limited to: commissioning or de commissioning containers; replacement, reconstruction, or movement of containers; reconstruction, replacement, or installation of piping systems; constructi
Violation Division: San Joaquin County Environmental Health
Violation Program: APSA
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-18-2021
Citation: 23 CCR 16 2637(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(f)
Violation Description: Failure to submit a copy of the secondary containment test results on the Secondary Containment Testing report Form to the UPA within 30 days after the test.
Violation Notes: Returned to compliance on 09/17/2021. OBSERVATION: A secondary piping repair on the 91 STP sump was conducted on 10-28-2020 under SR0082734. A test report has not been submitted to the EHD or the California Environmental Reporting System (CERS). REGULATION GUIDANCE: A copy of the 'Secondary Containment Testing Report Form' must be submitted within 30 days of the test. CORRECTIVE ACTION: Immediately provide this report to the EHD.
Violation Division: San Joaquin County Environmental Health

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Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-23-2018
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/23/2018. The 91 line leak detector failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. The leak detector was replaced twice while on site with like-for-like models. A second VMI tester box was used for additional testing. None of the three leak detectors was able to pass testing. The leak detector was replaced and retested during the inspection. A UST Retrofit Verification with Inspector Already Onsite form has been completed and provided to the operator and contractor. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide and maintain secondary containment for bulk storage tank installations (except for mobile refuelers and other non-transportation-related tank trucks) sufficient to hold the capacity of the largest container and sufficient freeboard for precipitation.
Violation Notes:	OBSERVATION: The facility failed to provide and maintain secondary containment for bulk storage tank installations sufficient to hold the capacity of the largest container, including adequate freeboard for precipitation. Secondary containment drain valves on tanks T3 - T5 (diesel) and T6 (bio diesel) were in the open position. REGULATION GUIDANCE: (c)(2)Construct all bulk storage tank installations (except mobile refuelers and other non-transportation-related tank trucks) so that you provide a secondary means of containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. You must ensure that diked areas are sufficiently impervious to contain discharged oil. Dikes, containment curbs, and pits are commonly employed for this purpose. You may also use an alternative system consisting of a drainage trench enclosure that must be arranged so that any discharge will terminate and be safely confined in a facility catchment basin or
Violation Division:	San Joaquin County Environmental Health
Violation Program:	APSA
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Date:	03-30-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 07/20/2021. Manifest numbers 017497085JJK, 017497086JJK, 017497224JJK, 017497225JJK were found on site without a signed off copy from the destination facility. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifests or prepare and submit the required information to DTSC. S
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	08-18-2021
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 09/17/2021. OBSERVATION: Maintenance and monitoring records for the last three years were not found on site. - Work order/ test report for the secondary piping repair on the 91 STP sump was not found on-site. REGULATION GUIDANCE: These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. CORRECTIVE ACTION: Immediately locate and maintain all missing maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	424229
Site Name:	Flying J Travel Center Lathrop - 1017
Violation Date:	07-20-2021
Citation:	40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Violation Description: Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.
Violation Notes: Returned to compliance on 08/19/2021. OBSERVATION: The secondary containment for both diesel fill and bio diesel fill pipes were observed full of liquid. REGULATION GUIDANCE: All facility spill control equipment shall be maintained as necessary to assure its proper operation in time of emergency. CORRECTIVE ACTION: Bring into proper working order by removing the liquid in the secondary containment and placing in the proper waste container. Provide a corrective action statement to the San Joaquin County Environmental Health Department within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Violation Date: 08-27-2019
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 09/25/2019. Approximately, 1 cup of liquid was found in the UDC 9/10 sump. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage accordingly. Ensure that the UDC sump is maintained free of liquid.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-20-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection report was provided to the facility operator on the day of inspection. The report was amended and replaces the initial report. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the amended inspection report. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Schedule of Free CUPA Classes, Return to Compliance Certification form Waste streams found: fuel contaminated liquids and solids, waste DEF, used oil, oil/water separator waste
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for final inspection. Designated Operator employee training verified along with shrouds and clamps around spill containers. Verified during previous inspections- Monitoring components and their funcionality, including vacuum and liquid smart sensors VPH components and communication of VPH system. Spill container requirements Overfill protection requirements Dispenser footprints contained by the under dispenser containment sumps Documents received: Passing Enhanced Leak Detection (ELD) test results. As-built plans Based on the above met requirements facility is approved to operate (premium and regular UST tanks), test results for all testing conducted during this installation are due 30 days from the date of testing Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations found at time of inspection. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by April 29, 2018. Documents reviewed by Regulator: Employee training log, disposal/manifest records. Documents received by operator: Return to compliance certification form and inspection report. Waste stream: fuel contaminated solids and fuel contaminated liquids. Note: No modified contingency plan. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility [Truncated]
Eval Division: San Joaquin County Environmental Health

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-11-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection report was provided to the facility operator on the day of inspection. The report was amended and replaces the initial report. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the amended inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 17, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Schedule of Free CUPA Classes, Return to Compliance Certification, and Corrective Actions form.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-23-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 23, 2018. NOTE: The brine in UDCs 3/4, 5/6, 7/8, 9/10, and 11/12 was observed to be too low to view in the site gauges located in each UDC or to verify brine communication. A small amount of brine was observed at the bottom of each brine reservoir and no sensors were in alarm at the time of inspection. All brine sensors were verified to be functional. Additional brine was put into UDCs 3/4, 5/6, 7/8, 9/10, and 11/12 during the inspection. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-25-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The monitoring system certification was conducted on 8/25/2020 and the paperwork inspection completed today(9/10/2020). An inspection checklist was provided to the facility operator on the day of inspection. The EHD has written the complete report which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification Form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 10/10/2020 To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Return to Compliance Certification Form, Corrective Action Statement Form and a List of Approve CUPA Free Training Classes.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-27-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 9/26/2019 . Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: -Return to compliance certification -Corrective Action Statement -EHD class schedule -Gasoline Advertising Signs
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receipt of this report. Please be aware as of January 1, 2013, all businesses are required to submit all new (or any changes to existing) Aboveground Petroleum Storage Act (APSA) information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov in addition to any other relevant activities and required fields. No later than January 1, 2014, all APSA data must be entered and or updated in CERS.
Eval Division: San Joaquin County Environmental Health
Eval Program: APSA
Eval Source: CERS,

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-20-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by August 20, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. The following was observed during this inspection: Six 12,000-gallon diesel tanks, two 12,000-gallon bio diesel tanks Documents reviewed: SPCC Plan, training records, inspection records The following was provided during this inspection: Schedule of free CUPA classes, Return to Compliance Certification, SP001 Annual Inspection Form
Eval Division: San Joaquin County Environmental Health
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-20-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Conducted a Hazardous Materials Business Plan (HMBP) inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by August 20, 2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Site Address: 345 E ROTH RD
Site City: FRENCH CAMP
Site Zip: 95231
Enf Action Date: 03-30-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: APSA
Enf Action Source: CERS,

Site ID: 424229
Site Name: Flying J Travel Center Lathrop - 1017
Site Address: 345 E ROTH RD
Site City: FRENCH CAMP
Site Zip: 95231

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Enf Action Date:	03-30-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	424229
Facility Name:	Flying J Travel Center Lathrop - 1017
Env Int Type Code:	APSA
Program ID:	10726990
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	37.855640
Longitude:	-121.274550

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	The Beneto Family Trust
Entity Title:	Not reported
Affiliation Address:	4080 Seaport Blvd
Affiliation City:	West Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 677-0817,

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	BENETO FAMILY TRUST
Entity Title:	Not reported
Affiliation Address:	4080 Seaport Blvd
Affiliation City:	West Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 677-0817,

Affiliation Type Desc:	UST Tank Operator
Entity Name:	PILOT TRAVEL CENTERS, LLC
Entity Title:	Not reported
Affiliation Address:	5508 Lonas Road
Affiliation City:	Knoxville
Affiliation State:	TN
Affiliation Country:	United States
Affiliation Zip:	37909
Affiliation Phone:	(865) 474-2826,

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOEY CUPP
Entity Title:	Not reported
Affiliation Address:	5508 Lonas Road
Affiliation City:	Knoxville
Affiliation State:	TN
Affiliation Country:	Not reported

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Affiliation Zip: 37909
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: PILOT TRAVEL CENTERS, LLC
Entity Title: Not reported
Affiliation Address: 5508 Lonas Road
Affiliation City: Knoxville
Affiliation State: TN
Affiliation Country: United States
Affiliation Zip: 37909
Affiliation Phone: (865) 474-2826,

Affiliation Type Desc: UST Tank Owner
Entity Name: PILOT TRAVEL CENTERS, LLC
Entity Title: Not reported
Affiliation Address: 5508 Lonas Road
Affiliation City: Knoxville
Affiliation State: TN
Affiliation Country: United States
Affiliation Zip: 37909
Affiliation Phone: (865) 474-2826,

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 5508 Lonas Road
Affiliation City: Knoxville
Affiliation State: TN
Affiliation Country: Not reported
Affiliation Zip: 37939
Affiliation Phone: ,

Affiliation Type Desc: Operator
Entity Name: JOEY CUPP
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (865) 474-2826,

Affiliation Type Desc: Parent Corporation
Entity Name: PILOT TRAVEL CENTERS, LLC
Entity Title: Not reported
Affiliation Address: Not reported

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **S123519404**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Document Preparer
Entity Name:	Tara Velleux
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	JOEY CUPP
Entity Title:	Director, Environmental
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

A15 **PILOT TRAVEL CENTER LATHROP - 1017** **UST** **U004358096**
ENE **345 E ROTH RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.171 mi.
905 ft. **Site 8 of 12 in cluster A**

Relative: UST:
Higher

Actual:
17 ft.

Name:	PILOT TRAVEL CENTER LATHROP - 1017
Address:	345 E ROTH RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	Not reported
Latitude:	37.85564
Longitude:	-121.27455
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported

PILOT TRAVEL CENTER LATHROP - 1017 (Continued) **U004358096**

Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

A16 **JB HUNT** **RCRA NonGen / NLR** **1027459520**
ENE **345 ROTH RD** **CAC003197904**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.171 mi.
905 ft. **Site 9 of 12 in cluster A**

Relative: **Higher**

Actual: **17 ft.**

RCRA Listings:

Date Form Received by Agency:		20221004
Handler Name:	JB HUNT	
Handler Address:		345 ROTH RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231
EPA ID:		CAC003197904
Contact Name:		PREMIUM ENVIRONMENTAL SERVICES
Contact Address:		5032 S PLAZA DR
Contact City,State,Zip:		NEWBURGH, IN 47630
Contact Telephone:		812-853-2400
Contact Fax:		Not reported
Contact Email:		ADMIN@PREMIUMENVIRONMENTALSERVICES.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		615 JB HUNT CORPORATE DR
Mailing City,State,Zip:		LOWELL, AR 72745
Owner Name:	JB HUNT	
Owner Type:		Other
Operator Name:	PREMIUM ENVIRONMENTAL	SERVICES
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

JB HUNT (Continued) **1027459520**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20221004
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: JB HUNT

JB HUNT (Continued) **1027459520**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	615 JB HUNT CORPORATE DR
Owner/Operator City,State,Zip:	LOWELL, AR 72745
Owner/Operator Telephone:	800-452-4868
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: PREMIUM ENVIRONMENTAL	SERVICES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5032 S PLAZA DR
Owner/Operator City,State,Zip:	NEWBURGH, IN 47630
Owner/Operator Telephone:	812-853-2400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20221004
Handler Name: JB HUNT	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A17 **FLYING J TRAVEL CENTER LATHROP - 1017** **UST** **U004355630**
ENE **345 E ROTH RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.171 mi.
905 ft. **Site 10 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

UST:

Name:	FLYING J TRAVEL CENTER LATHROP - 1017
Address:	345 E ROTH RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	Not reported
Latitude:	37.85564
Longitude:	-121.27455
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

Name:	FLYING J TRAVEL CENTER LATHROP - 1017
Address:	345 E ROTH RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	10726990
Latitude:	37.8556400

FLYING J TRAVEL CENTER LATHROP - 1017 (Continued) **U004355630**

Longitude:	-121.274550
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

C18 **UPS LATHROP HUB** **UST** **U004261011**
SSE **11800 S HARLAN RD** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.184 mi.
974 ft. **Site 1 of 5 in cluster C**

Relative: UST SAN JOAQUIN:
Higher

Actual:
17 ft.

Name:	UPS LATHROP HUB
Address:	11800 S HARLAN RD
City,State,Zip:	LATHROP, CA 95330
Region:	SJ
Facility Id:	FA0010414
Mail Address:	8400 Pardee Drive, Attn: Plant Engineering
Mail Address 2:	Not reported
Mail Care of:	United Parcel Service, Inc.
Mail City,St,Zip:	Oakland, CA 94621
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable

UPS LATHROP HUB (Continued) **U004261011**

Tank Capacity:	5000
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10183537
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	37.8511825995
Longitude:	-121.2826161897

Tank Rec ID:	Not reported
Tank Number:	2
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	10000
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10183537
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	37.8511825995
Longitude:	-121.2826161897

C19 **UPS LATHROP HUB** **CERS HAZ WASTE** **S121748546**
SSE **11800 S HARLAN RD** **CERS TANKS** **N/A**
1/8-1/4 **LATHROP, CA 95330** **CERS**
0.184 mi.
974 ft. **Site 2 of 5 in cluster C**

Relative:
Higher

Actual:
17 ft.

CERS HAZ WASTE:

Name:	UPS LATHROP HUB
Address:	11800 S HARLAN RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	163145
CERS ID:	10183537
CERS Description:	Hazardous Waste Generator

Name:	UPS LATHROP HUB
Address:	11800 S HARLAN RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	163145
CERS ID:	10183537
CERS Description:	RCRA LQ HW Generator

CERS TANKS:

Name:	UPS LATHROP HUB

UPS LATHROP HUB (Continued) **S121748546**

Address: 11800 S HARLAN RD
City,State,Zip: LATHROP, CA 95330
Site ID: 163145
CERS ID: 10183537
CERS Description: Aboveground Petroleum Storage

CERS:
Name: UPS LATHROP HUB
Address: 11800 S HARLAN RD
City,State,Zip: LATHROP, CA 95330
Site ID: 163145
CERS ID: 10183537
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-20-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: I was told by the owner this site is demolished and no haz mat or business at this site. I droved by the location to verify. I inactivated 5021 for both 2220 and 1921.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-15-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were found at time of inspection. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Coordinates:
Site ID: 163145
Facility Name: UPS Lathrop Hub
Env Int Type Code: HWG
Program ID: 10183537
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.850650
Longitude: -121.278990

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: United Parcel Service, Inc.
Entity Title: Not reported
Affiliation Address: 55 Glenlake Parkway, NE
Affiliation City: Atlanta
Affiliation State: GA
Affiliation Country: United States
Affiliation Zip: 30328

UPS LATHROP HUB (Continued) **S121748546**

Affiliation Phone:	(323) 229-9894,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	8400 Pardee Drive, Attn: Plant Engineering
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94621
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Jeanette Hopkins
Entity Title:	West - Corporate Environmental Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Document Preparer
Entity Name:	Fatima Valdez Flores
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Fatima Valdez Flores
Entity Title:	Not reported
Affiliation Address:	8400 Pardee Drive
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94621
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	United Parcel Service, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

UPS LATHROP HUB (Continued) **S121748546**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(323) 229-9894,
Affiliation Type Desc:	Parent Corporation
Entity Name:	United Parcel Service, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Seefried Industrial Properties LP
Entity Title:	Not reported
Affiliation Address:	221 Camelback Road, Suite 225B
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85016
Affiliation Phone:	(209) 476-2904,

C20 **UPS - LATHROP HUB** **RCRA-LQG** **1019322808**
SSE **11800 HARLAN ROAD** **CAR000265447**
1/8-1/4 **LATHROP, CA 95330**
0.184 mi.
974 ft. **Site 3 of 5 in cluster C**

Relative: **Higher**

Actual: **17 ft.**

RCRA Listings:

Date Form Received by Agency:		20220219
Handler Name:	UPS - LATHROP HUB	
Handler Address:		11800 HARLAN ROAD
Handler City,State,Zip:		LATHROP, CA 95330-9723
EPA ID:		CAR000265447
Contact Name:		ALVIN SOLIS
Contact Address:		PARDEE DRIVE
Contact City,State,Zip:		OAKLAND, CA 94621
Contact Telephone:		510-246-2704
Contact Fax:		Not reported
Contact Email:		ALVINSOLIS@UPS.COM
Contact Title:		ENVIRONMENTAL COORDINATOR
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Large Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		2021
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PARDEE DRIVE
Mailing City,State,Zip:		OAKLAND, CA 94621
Owner Name:	UNITED PARCEL SERVICE, INC.	
Owner Type:		Private

UPS - LATHROP HUB (Continued) **1019322808**

Operator Name:	UNITED PARCEL SERVICE, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220525
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

UPS - LATHROP HUB (Continued) **1019322808**

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

UPS - LATHROP HUB (Continued) **1019322808**

Waste Code: P022
Waste Description: CARBON DISULFIDE

Waste Code: P044
Waste Description: DIMETHOATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIMETHYL S-[2-(METHYLAMINO)-2-OXOETHYL] ESTER

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U056
Waste Description: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

Waste Code: U080
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U112
Waste Description: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Waste Code: U117
Waste Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

UPS - LATHROP HUB (Continued) **1019322808**

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-246-2704
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: ALVINSOLIS@UPS.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-246-2704
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: ALVINSOLIS@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: LION INDUSTRIAL PROPERTIES LP, ATTN: STACEY MAGEE, DBA LIT IND LP
Legal Status: Private
Date Became Current: 20161001
Date Ended Current: Not reported
Owner/Operator Address: 1717 MCKINNEY AVENUE
Owner/Operator City,State,Zip: DALLAS, TX 75202
Owner/Operator Telephone: 657-234-9860
Owner/Operator Telephone Ext: Not reported

UPS - LATHROP HUB (Continued) **1019322808**

Owner/Operator Fax: Not reported
Owner/Operator Email: DSCIDMORE@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: UPS LATHROP
Legal Status: Private
Date Became Current: 20160501
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-246-2704
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: ALVINSOLIS@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY NE

UPS - LATHROP HUB (Continued) **1019322808**

Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-246-2704
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: ALVINSOLIS@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: LT INDUSTRIAL LP
Legal Status: Private
Date Became Current: 20160501
Date Ended Current: Not reported
Owner/Operator Address: 221 CAMELBACK RD STE 225B
Owner/Operator City,State,Zip: PHOENIX, AZ 85016
Owner/Operator Telephone: 602-337-8730
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED PARCEL SERVICE, INC.
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 55 GLENLAKE PARKWAY, NE
Owner/Operator City,State,Zip: ATLANTA, GA 30328
Owner/Operator Telephone: 510-453-2090
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: REPOWELL@UPS.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: LION INDUSTRIAL PROPERTIES LP, ATTN: STACEY MAGEE, DBA LIT IND LP
Legal Status: Private
Date Became Current: 20160901
Date Ended Current: Not reported
Owner/Operator Address: 1717 MCKINNEY AVENUE
Owner/Operator City,State,Zip: DALLAS, TX 75202
Owner/Operator Telephone: 657-234-9860
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: DSCIDMORE@UPS.COM

Historic Generators:
Receive Date: 20180227
Handler Name: UPS LATHROP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200228

UPS - LATHROP HUB (Continued) **1019322808**

Handler Name: UPS LATHROP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220219
Handler Name: UPS - LATHROP HUB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20190207
Handler Name: UPS LATHROP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20160706
Handler Name: UPS LATHROP
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220219
Handler Name: UPS - LATHROP HUB
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

UPS - LATHROP HUB (Continued) **1019322808**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 492110
NAICS Description: COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: UPS
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4588.8
Paid Amount: Not reported
Final Count: 1
Final Amount: 4588.8

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented

UPS - LATHROP HUB (Continued) **1019322808**

Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: UPS
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4588.8
Paid Amount: Not reported
Final Count: 1
Final Amount: 4588.8

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: UPS
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06

UPS - LATHROP HUB (Continued) **1019322808**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4588.8
Paid Amount: Not reported
Final Count: 1
Final Amount: 4588.8

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: 67
Consent/Final Order Respondent Name: UPS
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4588.8
Paid Amount: Not reported
Final Count: 1
Final Amount: 4588.8

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Manifest
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented

UPS - LATHROP HUB (Continued) **1019322808**

Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: UPS
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4588.8
Paid Amount: Not reported
Final Count: 1
Final Amount: 4588.8

Evaluation Action Summary:
Evaluation Date: 20220115
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: CAFO
Evaluation Responsible Sub-Organization: R06
Actual Return to Compliance Date: 20221019
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20220115
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: CAFO
Evaluation Responsible Sub-Organization: R06
Actual Return to Compliance Date: 20221019
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported

UPS - LATHROP HUB (Continued) **1019322808**

Former Citation:	Not reported
Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

C21 **SAN LORENZO LUMBER CO** **AST** **A100337620**
SSE **11800 S HARLAN** **N/A**
1/8-1/4 **LATHROP, CA**
0.184 mi.
974 ft. **Site 4 of 5 in cluster C**

Relative: Higher
Actual: 17 ft.

AST:

Name:	SAN LORENZO LUMBER CO
Address:	11800 S HARLAN
City/Zip:	LATHROP,
Certified Unified Program Agencies:	San Joaquin
Owner:	SAN LORENZO LUMBER CO
Total Gallons:	8,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported

SAN LORENZO LUMBER CO (Continued) **A100337620**

Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

C22 **BRANSON CROSS LUMBER** **SWEEPS UST** **S106923532**
SSE **11800 S HARLAN ROAD** **EMI** **N/A**
1/8-1/4 **LATHROP, CA 95330** **HAZNET**
0.184 mi. **HWTS**
974 ft. **Site 5 of 5 in cluster C**

Relative:
Higher

Actual:
17 ft.

SWEEPS UST:

Name:	BRANSON CROSS LUMBER
Address:	11800 S HARLAN ROAD
City:	LATHROP
Status:	Active
Comp Number:	1589
Number:	1
Board Of Equalization:	44-024774
Referral Date:	05-15-92
Action Date:	05-15-92
Created Date:	07-13-88
Owner Tank Id:	ULJ393219
SWRCB Tank Id:	39-000-001589-000001
Tank Status:	A
Capacity:	5000
Active Date:	05-15-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2

Name:	BRANSON CROSS LUMBER
Address:	11800 S HARLAN ROAD
City:	LATHROP
Status:	Active
Comp Number:	1589
Number:	1
Board Of Equalization:	44-024774
Referral Date:	05-15-92
Action Date:	05-15-92

BRANSON CROSS LUMBER (Continued) **S106923532**

Created Date:	07-13-88
Owner Tank Id:	ULJ393238
SWRCB Tank Id:	39-000-001589-000002
Tank Status:	A
Capacity:	10000
Active Date:	05-15-92
Tank Use:	PETROLEUM
STG:	P
Content:	DIESEL #2
Number Of Tanks:	Not reported

EMI:

Name:	UNITED PARCEL SERVICE
Address:	11800 S HARLAN RD
City,State,Zip:	LATHROP, CA 95330
Year:	2020
County Code:	39
Air Basin:	SJV
Facility ID:	9584
Air District Name:	SJU
SIC Code:	4215
Air District Name:	SAN JOAQUIN VALLEY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.013672
Reactive Organic Gases Tons/Yr:	0.013672
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

HAZNET:

Name:	UPS - LATHROP HUB
Address:	11800 S HARLAN RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 953309723
Contact:	ALVIN SOLIS
Telephone:	5102462704
Mailing Name:	Not reported
Mailing Address:	8400 PARDEE DR
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAD008302903
CA Waste Code:	291 - Latex waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0325
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAD008302903
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

BRANSON CROSS LUMBER (Continued) **S106923532**

Tons:	20.5275
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAD008302903
CA Waste Code:	141 - Off-specification, aged or surplus inorganics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	10.568
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	ILD098642424
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.004
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	ILD098642424
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.369
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAD008302903
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H020 - Solvents Recovery
Tons:	0.07
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	TXD000838896
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.0155
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAT080014079
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.2335
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	CAD008302903
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.3675
Year:	2021
Gepaid:	CAR000265447
TSD EPA ID:	ILD098642424

BRANSON CROSS LUMBER (Continued) **S106923532**

CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.043

Click this hyperlink while viewing on your computer to access
32 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	2021
Gen EPA ID:	CAR000265447
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1585
Waste Quantity:	317
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0595
Waste Quantity:	119
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141,331 - Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.102
Waste Quantity:	204
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369

BRANSON CROSS LUMBER (Continued) **S106923532**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141,331 - Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.052
Waste Quantity:	104
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1025
Waste Quantity:	205
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.105
Waste Quantity:	210
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.081
Waste Quantity:	162
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0645
Waste Quantity:	129
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2020
Gen EPA ID:	CAR000265447
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0495
Waste Quantity:	99
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020

BRANSON CROSS LUMBER (Continued) **S106923532**

Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1585
Waste Quantity:	317
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0595
Waste Quantity:	119
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC

BRANSON CROSS LUMBER (Continued) **S106923532**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141,331 - Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.102
Waste Quantity:	204
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141,331 - Not reported
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.052
Waste Quantity:	104
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1025
Waste Quantity:	205
Quantity Unit:	P
Additional Code 1:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.105
Waste Quantity:	210
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.081
Waste Quantity:	162
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES

BRANSON CROSS LUMBER (Continued) **S106923532**

Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0645
Waste Quantity:	129
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	9/28/2020
Creation Date:	10/8/2020
Receipt Date:	10/7/2020
Manifest ID:	001770670VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0975
Waste Quantity:	195
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Detail Two:

Year:	2020
EM Manifest ID:	96aa7205-cd97-4210-8746-f6ccdfad1742
Shipment Date:	9/15/2020
Receipt Date:	9/28/2020
Manifest Number:	001770623VES
Generator EPA ID:	CAR000265447
Name:	UNITED PARCEL SERVICE
Address:	LATHROP
Address 2:	11800 HARLAN RD
City:	LATHROP

BRANSON CROSS LUMBER (Continued) **S106923532**

Zip:	95330
Telephone:	877-818-0087
Contact:	Not reported
Contact Telephone:	916-508-8068
Transporter 1 EPA ID:	NJD080631369
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	ILD098642424
TSDF Name:	VEOLIA TECHNICAL SOLUTIONS LLC
TSDF Address 1:	7 MOBILE AVE
TSDF Address 2:	Not reported
TSDF City:	SAUGET
TSDF Zip:	62201
TSDF Telephone:	Not reported

Federal:

Year:	2020
EM Manifest ID:	96aa7205-cd97-4210-8746-f6ccdfad1742
Generator EPA ID:	CAR000265447
Shipment Date:	2020-09-15
Manifest Number:	001770623VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D003

Year:	2020
EM Manifest ID:	96aa7205-cd97-4210-8746-f6ccdfad1742
Generator EPA ID:	CAR000265447
Shipment Date:	2020-09-15
Manifest Number:	001770623VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D008

State:

Year:	2020
EM Manifest ID:	96aa7205-cd97-4210-8746-f6ccdfad1742
Generator EPA ID:	CAR000265447
Shipment Date:	2020-09-15
Manifest Number:	001770623VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.00200
Quantity Waste:	4.000000

BRANSON CROSS LUMBER (Continued) **S106923532**

Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 352

Year: 2020
EM Manifest ID: 2c1abbae-ffeb-41e8-8051-5e6a90cb3d80
Shipment Date: 7/8/2020
Receipt Date: 7/27/2020
Manifest Number: 001692996VES
Generator EPA ID: CAR000265447
Name: UNITED PARCEL SERVICE
Address: LATHROP
Address 2: 11800 HARLAN RD
City: LATHROP
Zip: 95330
Telephone: 877-818-0087
Contact: Not reported
Contact Telephone: 916-508-8068
Transporter 1 EPA ID: NJD080631369
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MOD095038998
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: ILD098642424
TSDF Name: VEOLIA TECHNICAL SOLUTIONS LLC
TSDF Address 1: 7 MOBILE AVE
TSDF Address 2: Not reported
TSDF City: SAUGET
TSDF Zip: 62201
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 2c1abbae-ffeb-41e8-8051-5e6a90cb3d80
Generator EPA ID: CAR000265447
Shipment Date: 2020-07-08
Manifest Number: 001692996VES
Line Number: 1
Method Code: H040
Quantity Tons: 0.01400
Quantity Waste: 28.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 141

Year: 2020
EM Manifest ID: 1cbd8ab6-17ad-4677-bdb1-b1222001798b
Shipment Date: 5/26/2020
Receipt Date: 6/12/2020
Manifest Number: 001863327VES
Generator EPA ID: CAR000265447
Name: UNITED PARCEL SERVICE
Address: LATHROP

BRANSON CROSS LUMBER (Continued) **S106923532**

Address 2:	11800 HARLAN RD
City:	LATHROP
Zip:	95330
Telephone:	877-818-0087
Contact:	Not reported
Contact Telephone:	916-508-8068
Transporter 1 EPA ID:	NJD080631369
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	ALR000007237
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	TXD000838896
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Address 1:	7665 HWY 73
TSDF Address 2:	Not reported
TSDF City:	PORT ARTHUR
TSDF Zip:	77640-2563
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	1cbd8ab6-17ad-4677-bdb1-b1222001798b
Generator EPA ID:	CAR000265447
Shipment Date:	2020-05-26
Manifest Number:	001863327VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.03500
Quantity Waste:	70.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	181

Year:	2020
EM Manifest ID:	e0b5cb4a-ab6f-4680-9b19-0922235ad624
Shipment Date:	5/11/2020
Receipt Date:	5/26/2020
Manifest Number:	019328743JJK
Generator EPA ID:	CAR000265447
Name:	UPS LATHROP
Address:	11800 S. HARLAN ROAD
Address 2:	Not reported
City:	LATHROP
Zip:	95330
Telephone:	877-577-2669
Contact:	Not reported
Contact Telephone:	916-351-0980
Transporter 1 EPA ID:	MNS000110924
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000173641
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD980884183
TSDF Name:	GEM Rancho Cordova LLC
TSDF Address 1:	11855 White Rock Road
TSDF Address 2:	Not reported
TSDF City:	Rancho Cordova

BRANSON CROSS LUMBER (Continued) **S106923532**

TSDF Zip: 95742
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: e0b5cb4a-ab6f-4680-9b19-0922235ad624
Generator EPA ID: CAR000265447
Shipment Date: 2020-05-11
Manifest Number: 019328743JJK
Line Number: 1
Method Code: H141
Quantity Tons: 0.18765
Quantity Waste: 45.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Gallons
State Code: 223

Year: 2020
EM Manifest ID: e0b5cb4a-ab6f-4680-9b19-0922235ad624
Generator EPA ID: CAR000265447
Shipment Date: 2020-05-11
Manifest Number: 019328743JJK
Line Number: 2
Method Code: H141
Quantity Tons: 0.03500
Quantity Waste: 70.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 223

Year: 2020
EM Manifest ID: 1a7392fd-5c7e-4c66-9b42-240f4a2e8a97
Shipment Date: 3/20/2020
Receipt Date: 4/8/2020
Manifest Number: 001863114VES
Generator EPA ID: CAR000265447
Name: UPS LATHROP
Address: S HARLAN ROAD
Address 2: Not reported
City: LATHROP
Zip: 95330-9723
Telephone: 877-818-0087
Contact: RAMONA POWELL
Contact Telephone: 510-453-2090
Transporter 1 EPA ID: NJD080631369
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAT000624247
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: AZ0000337360
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS
TSDF Address 1: 5736 W JEFFERSON ST
TSDF Address 2: Not reported
TSDF City: PHOENIX

BRANSON CROSS LUMBER (Continued) **S106923532**

TSDF Zip: 85043
TSDF Telephone: Not reported

Federal:
Year: 2020
EM Manifest ID: 1a7392fd-5c7e-4c66-9b42-240f4a2e8a97
Generator EPA ID: CAR000265447
Shipment Date: 2020-03-20
Manifest Number: 001863114VES
Line Number: 1
Method Code: H041
Quantity Tons: 0.05000
Quantity Waste: 100.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D002

Year: 2020
EM Manifest ID: 1a7392fd-5c7e-4c66-9b42-240f4a2e8a97
Generator EPA ID: CAR000265447
Shipment Date: 2020-03-20
Manifest Number: 001863114VES
Line Number: 1
Method Code: H041
Quantity Tons: 0.05000
Quantity Waste: 100.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D008

State:
Year: 2020
EM Manifest ID: 1a7392fd-5c7e-4c66-9b42-240f4a2e8a97
Generator EPA ID: CAR000265447
Shipment Date: 2020-03-20
Manifest Number: 001863114VES
Line Number: 1
Method Code: H041
Quantity Tons: 0.05000
Quantity Waste: 100.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 724

Year: 2020
EM Manifest ID: 1a7392fd-5c7e-4c66-9b42-240f4a2e8a97
Generator EPA ID: CAR000265447
Shipment Date: 2020-03-20
Manifest Number: 001863114VES
Line Number: 1
Method Code: H041

BRANSON CROSS LUMBER (Continued) **S106923532**

Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiberboard or plastic drums, barrels, kegs
Quantity Type:	Pounds
State Code:	791

Year:	2020
EM Manifest ID:	924740
Shipment Date:	12/20/2019
Receipt Date:	1/6/2020
Manifest Number:	001694846VES
Generator EPA ID:	CAR000265447
Name:	UNITED PARCEL SERVICE
Address:	LATHROP
Address 2:	11800 HARLAN RD
City:	LATHROP
Zip:	95330
Telephone:	877-818-0087
Contact:	Not reported
Contact Telephone:	626-334-5117
Transporter 1 EPA ID:	MOD095038998
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	NJD080631369
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	WID003967148
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address 1:	W124 N9451 BOUNDARY RD
TSDF Address 2:	Not reported
TSDF City:	MENOMONEE FALLS
TSDF Zip:	53051
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	924740
Generator EPA ID:	CAR000265447
Shipment Date:	2019-12-20
Manifest Number:	001694846VES
Line Number:	1
Method Code:	H141
Quantity Tons:	0.00100
Quantity Waste:	2.000000
Quantity Unit:	P
Number of Containers:	2
Type of Container:	Cylinders
Quantity Type:	Pounds
State Code:	141

Year:	2020
EM Manifest ID:	70f85600-3f86-4e6e-aeed-fff22e747c95
Shipment Date:	11/9/2020
Receipt Date:	11/30/2020
Manifest Number:	001770799VES
Generator EPA ID:	CAR000265447

BRANSON CROSS LUMBER (Continued) **S106923532**

Name:	UNITED PARCEL SERVICE
Address:	LATHROP
Address 2:	11800 HARLAN RD
City:	LATHROP
Zip:	95330
Telephone:	877-818-0087
Contact:	Not reported
Contact Telephone:	916-508-8068
Transporter 1 EPA ID:	NJD080631369
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	ALR000007237
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	TXD000838896
TSDF Name:	VEOLIA ES TECHNICAL SOLUTIONS,
TSDF Address 1:	L.L.C.
TSDF Address 2:	HWY 73-3.5 MI W. TAYLORS BAYOU
TSDF City:	PORT ARTHUR
TSDF Zip:	77640
TSDF Telephone:	Not reported

Federal:

Year:	2020
EM Manifest ID:	70f85600-3f86-4e6e-aeed-fff22e747c95
Generator EPA ID:	CAR000265447
Shipment Date:	2020-11-09
Manifest Number:	001770799VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.03500
Quantity Waste:	70.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D001

State:

Year:	2020
EM Manifest ID:	70f85600-3f86-4e6e-aeed-fff22e747c95
Generator EPA ID:	CAR000265447
Shipment Date:	2020-11-09
Manifest Number:	001770799VES
Line Number:	1
Method Code:	H040
Quantity Tons:	0.03500
Quantity Waste:	70.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	331

Year:	2020
EM Manifest ID:	e7db8b43-89d9-49ca-96b0-1ba207b92c62
Shipment Date:	11/29/2019
Receipt Date:	1/15/2020

BRANSON CROSS LUMBER (Continued) **S106923532**

Manifest Number:	006185062GBF
Generator EPA ID:	CAR000265447
Name:	UPS
Address:	11800 S HARLAN ROAD
Address 2:	Not reported
City:	LATHROP
Zip:	95330
Telephone:	800-899-4672
Contact:	Not reported
Contact Telephone:	510-453-2090
Transporter 1 EPA ID:	CAR000030114
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000030114
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD980884183
TSDF Name:	GEM RANCHO CORDOVA LLC
TSDF Address 1:	WHITE ROCK ROAD
TSDF Address 2:	Not reported
TSDF City:	RANCHO CORDOVA
TSDF Zip:	95742
TSDF Telephone:	Not reported

State:

Year:	2020
EM Manifest ID:	e7db8b43-89d9-49ca-96b0-1ba207b92c62
Generator EPA ID:	CAR000265447
Shipment Date:	2019-11-29
Manifest Number:	006185062GBF
Line Number:	1
Method Code:	H141
Quantity Tons:	0.41700
Quantity Waste:	100.000000
Quantity Unit:	G
Number of Containers:	2
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
State Code:	141

Year:	2020
EM Manifest ID:	bb44f9f6-ba50-46ce-a84b-cfbc23711b4d
Shipment Date:	11/23/2020
Receipt Date:	12/7/2020
Manifest Number:	001770839VES
Generator EPA ID:	CAR000265447
Name:	UNITED PARCEL SERVICE
Address:	LATHROP
Address 2:	11800 HARLAN RD
City:	LATHROP
Zip:	95330
Telephone:	877-818-0087
Contact:	Not reported
Contact Telephone:	916-508-8068
Transporter 1 EPA ID:	NJD080631369
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MOD095038998
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	ILD098642424

BRANSON CROSS LUMBER (Continued) **S106923532**

TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS,
TSDF Address 1: L.L.C.
TSDF Address 2: 7 MOBILE AVENUE
TSDF City: SAUGET
TSDF Zip: 62201-1069
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: bb44f9f6-ba50-46ce-a84b-cfbc23711b4d
Generator EPA ID: CAR000265447
Shipment Date: 2020-11-23
Manifest Number: 001770839VES
Line Number: 1
Method Code: H040
Quantity Tons: 0.01900
Quantity Waste: 38.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Fiberboard or plastic drums, barrels, kegs
Quantity Type: Pounds
State Code: 141

Year: 2020
EM Manifest ID: 12662b16-f846-4a91-ad28-7e47e2c763f1
Shipment Date: 10/20/2020
Receipt Date: 11/20/2020
Manifest Number: 001770710VES
Generator EPA ID: CAR000265447
Name: UNITED PARCEL SERVICE
Address: LATHROP
Address 2: 11800 HARLAN RD
City: LATHROP
Zip: 95330
Telephone: 877-818-0087
Contact: Not reported
Contact Telephone: 916-508-8068
Transporter 1 EPA ID: NJD080631369
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: OKR000031492
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: TXD000838896
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS,
TSDF Address 1: L.L.C.
TSDF Address 2: HWY 73-3.5 MI W. TAYLORS BAYOU
TSDF City: PORT ARTHUR
TSDF Zip: 77640
TSDF Telephone: Not reported

State:
Year: 2020
EM Manifest ID: 12662b16-f846-4a91-ad28-7e47e2c763f1
Generator EPA ID: CAR000265447
Shipment Date: 2020-10-20
Manifest Number: 001770710VES
Line Number: 1
Method Code: H040

BRANSON CROSS LUMBER (Continued) **S106923532**

Quantity Tons:	0.00200
Quantity Waste:	4.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Fiber or plastic boxes, cartons, cases
Quantity Type:	Pounds
State Code:	331

Additional Info:

Year:	2017
Gen EPA ID:	CAR000265447
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.1025
Waste Quantity:	205
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	7/5/2018 18:31:14
Receipt Date:	20171219
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0845
Waste Quantity:	169
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.092
Waste Quantity:	184
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.082
Waste Quantity:	164
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369

BRANSON CROSS LUMBER (Continued) **S106923532**

Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0925
Waste Quantity:	185
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.087
Waste Quantity:	174
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

BRANSON CROSS LUMBER (Continued) **S106923532**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1005
Waste Quantity:	201
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.081
Waste Quantity:	162
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	141 - Off-specification, aged, or surplus inorganics
RCRA Code:	D001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.086
Waste Quantity:	172
Quantity Unit:	P

BRANSON CROSS LUMBER (Continued) **S106923532**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171213
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001363209VES
Trans EPA ID:	NJD080631369
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2045
Waste Quantity:	409
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	UPS - LATHROP HUB
Address:	11800 S HARLAN RD
Address 2:	Not reported
City,State,Zip:	LATHROP, CA 95330
EPA ID:	CAR000265447
Inactive Date:	Not reported
Create Date:	08/30/2016
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	8400 PARDEE DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	OAKLAND, CA 94621
Owner Name:	UNITED PARCEL SERVICE INC
Owner Address:	55 GLENLAKE PKWY NE
Owner Address 2:	Not reported
Owner City,State,Zip:	ATLANTA, GA 303280000
Contact Name:	ALVIN SOLIS
Contact Address:	8400 PARDEE DR
Contact Address 2:	Not reported
City,State,Zip:	OAKLAND, CA 94621
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	37.835299
Longitude:	-121.286314

BRANSON CROSS LUMBER (Continued) **S106923532**

NAICS:

EPA ID:	CAR000265447
Create Date:	2018-01-02 08:29:59.203
NAICS Code:	492110
NAICS Description:	Couriers and Express Delivery Services
Issued EPA ID Date:	2016-08-30 09:42:01.10700
Inactive Date:	Not reported
Facility Name:	UNITED PARCEL SERVICE, INC.
Facility Address:	11800 S HARLAN RD
Facility Address 2:	Not reported
Facility City:	LATHROP
Facility County:	Not reported
Facility State:	CA
Facility Zip:	953309723

EPA ID:	CAR000265447
Create Date:	2016-08-30 09:42:01.397
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	2016-08-30 09:42:01.10700
Inactive Date:	Not reported
Facility Name:	UNITED PARCEL SERVICE, INC.
Facility Address:	11800 S HARLAN RD
Facility Address 2:	Not reported
Facility City:	LATHROP
Facility County:	Not reported
Facility State:	CA
Facility Zip:	953309723

A23 **FAST LANE CENTRAL VALLEY** **UST** **U004023833**
East **116 ROTH RD** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.189 mi.
996 ft. **Site 11 of 12 in cluster A**

Relative: **Higher**
Actual: **17 ft.**

UST:

Name:	FAST LANE CENTRAL VALLEY
Address:	116 ROTH RD
City,State,Zip:	LATHROP, CA 95330
Facility ID:	39-000-TMP006
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	10063345
Latitude:	37.8553000
Longitude:	-121.279200
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported

FAST LANE CENTRAL VALLEY (Continued) **U004023833**

Tank operator name: Not reported
Tank operator mailing address: Not reported
Tank operator mailing city: Not reported
Tank operator mailing zip: Not reported
Tank operator mailing state: Not reported
Tankidnumber: Not reported
Tank status: Not reported
Tank configuration: Not reported
Tank closure date: Not reported
Tank installation date: Not reported
Tank num of compartments: Not reported
Tank contents: Not reported
Tank capacity gallons: Not reported
Tank type: Not reported
Tank pc construction: Not reported
Tank pwpiping construction: Not reported
Tank piping type: Not reported
Tank piping construction: Not reported
Tank sacrificial anode: Not reported
Tank cp impressed current: Not reported
Tank cp shutoff: Not reported
Tank alarms: Not reported
Tank ball float: Not reported
Tank spill bucket: Not reported

UST SAN JOAQUIN:
Name: FAST LANE CENTRAL VALLEY
Address: 116 ROTH RD
City,State,Zip: LATHROP, CA 95330
Region: SJ
Facility Id: FA0015977
Mail Address: 111 HEALDSBURG AVE
Mail Address 2: Not reported
Mail Care of: B & G Group Inc
Mail City,St,Zip: HEALDSBURG, CA 95448

Tank Rec ID: 2
Tank Number: 1
Tank Status: 01 - Active, billable
Tank Capacity: 12000
Product Type Desc: 1b - PREMIUM UNLEADED
Program Element: 2350
Decode for Program Element: 2350 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10063345
Cross Ref Tank ID: Not reported
LEA ID: 1
Common Name: Not reported
Date Installed: 7/20/2007
Date of Closure: Not reported
Latitude: 37.8551439733
Longitude: -121.2797972830

Tank Rec ID: 3
Tank Number: 2

FAST LANE CENTRAL VALLEY (Continued) **U004023833**

Tank Status:	01 - Active, billable
Tank Capacity:	8000
Product Type Desc:	03 - DIESEL
Program Element:	2350
Decode for Program Element:	2350 - UST - PER TANK FEE
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10063345
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	7/20/2007
Date of Closure:	Not reported
Latitude:	37.8551439733
Longitude:	-121.2797972830

Tank Rec ID:	1
Tank Number:	3
Tank Status:	01 - Active, billable
Tank Capacity:	20000
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2350
Decode for Program Element:	2350 - UST - PER TANK FEE
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10063345
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	7/20/2007
Date of Closure:	Not reported
Latitude:	37.8551439733
Longitude:	-121.2797972830

Tank Rec ID:	4
Tank Number:	4
Tank Status:	01 - Active, billable
Tank Capacity:	20000
Product Type Desc:	03 - DIESEL
Program Element:	2350
Decode for Program Element:	2350 - UST - PER TANK FEE
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10063345
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	7/20/2007
Date of Closure:	Not reported
Latitude:	37.8551439733
Longitude:	-121.2797972830

Tank Rec ID:	5
Tank Number:	5

FAST LANE CENTRAL VALLEY (Continued) **U004023833**

Tank Status:	01 - Active, billable
Tank Capacity:	20000
Product Type Desc:	03 - DIESEL
Program Element:	2350
Decode for Program Element:	2350 - UST - PER TANK FEE
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10063345
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	7/20/2007
Date of Closure:	Not reported
Latitude:	37.8551439733
Longitude:	-121.2797972830

A24 **FAST LANE CENTRAL VALLEY** **CERS HAZ WASTE** **S121739838**
East **116 ROTH RD** **CERS TANKS** **N/A**
1/8-1/4 **LATHROP, CA 95330** **CERS**
0.189 mi.
996 ft. **Site 12 of 12 in cluster A**

Relative:
Higher

Actual:
17 ft.

CERS HAZ WASTE:

Name:	FAST LANE CENTRAL VALLEY
Address:	116 ROTH RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	116020
CERS ID:	10063345
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	FAST LANE CENTRAL VALLEY
Address:	116 ROTH RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	116020
CERS ID:	10063345
CERS Description:	Underground Storage Tank

CERS:

Name:	FAST LANE CENTRAL VALLEY
Address:	116 ROTH RD
City,State,Zip:	LATHROP, CA 95330
Site ID:	116020
CERS ID:	10063345
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	09-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 04/24/2020. The emergency response procedures are not complete. The emergency response and contingency

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

plan is missing the local Unified Program Agency (UPA) phone number. Please add 209-4683420 as the local UPA phone number. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-20-2017
Citation: HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes: Returned to compliance on 06/08/2018. Water was found on the auto side in the 87-product submersible turbine pump (STP), 87-product fill, 91-product STP, 91-product fill, diesel STP, diesel fill and vent sumps; and on the truck side water was found in the T1 diesel tank south STP, T2 diesel tank north STP, and vent sumps. Liquid (possibly product) was found in under dispenser containments for dispensers 14A/15B, 15A/16B, 16A/17B and 17A/18B. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. On the auto side of the facility, the service technicians removed approximately: one-quarter cup of water from the 87-product STP sump; two gallons of water from the 87-product fill sump; one cup of water from the 91-product STP and fill sumps; two cups of water from the diesel STP sump; one gallon of water from the diesel fill sump; and one inch of water in the auto vent sump. The service technicians did not remove any [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Date:	06-30-2015
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 08/10/2015. A monitoring system certification, leak detector testing, and spill container testing were performed on July 1, 2014 and a test report has not been submitted to the EHD. A copy of the test report must be submitted within 30 days of the test. Immediately provide this report to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description:	Failure to submit or maintain a current facility plot plan.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	Returned to compliance on 06/08/2018. On the truck side of the facility: the L22: dispenser 17 brine sensor failed when tested. Also the S2: diesel south vent and S3: diesel north piping failed the high liquid alarm when tested. The sensors monitoring the liquid level in the interstitial space shall be maintained so that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Correct immediately by having a properly licensed, trained, and certified contractor replace the failed component with a functional component (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD. If the failed component can t be replaced immediately, there is a possibility that the diesel tank 1 south UST system may be red tagged to prevent fuel inputs. Vacuum sensor monitoring of the secondary containment piping on the auto and truck sides of the facility of the vacuum/pressure/hydrostatic (VPH) system were not tested during the [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have current UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 06/10/2020. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes:	Returned to compliance on 04/18/2018. The designated operator (DO) failed to document all the auto-side alarms from the attached alarm histories on the 9/9/16, 10/31/16, 2/14/17 and 5/17/17 designated operator monthly inspection reports and failed to check that they were responded to appropriately. The missing alarms include: L28:Disp 11-12 brine fuel alarm on 8/19/16, 8/20/16 and 8/21/16 on the 9/9/16 DO auto-side report; L4:91 STP brine fuel alarm on 10/10/16 on the 10/31/16 DO auto-side report; L9:91 fill sump fuel alarm on 1/7/17; L7: 87 fill sump fuel alarm on 1/28/17 and S6:Diesel Prod. Line Sensor Fault alarm on 2/11/17 on the 2/14/17 DO auto-side report; L11:diesel fill sump sensor out alarm on 5/1/17 and 5/3/17 on the 5/17/17 DO auto-side report. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-01-2014
Citation:	Un-Specified
Violation Description:	UST Program - Design/Construction - For use of Local Ordinance only.
Violation Notes:	Returned to compliance on 07/05/2019.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description:	Failure to submit the Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 09/06/2018. A copy of the UST operating permit was not found on site. A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. Immediately obtain a copy of the permit and retain it on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes:	Returned to compliance on 07/12/2019. Owners or operators of

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

underground storage tanks that do not meet California Code of regulations, title 23 division 3, chapter 16 section 2635(c)(2) shall test overfill prevention equipment once by October 13th, 2018 and every 36 months thereafter; and within 30 days of the date of a repair. The site conducted the test on 1/25/19, over three months late. Ensure to conduct overfill prevention equipment inspection within the time frame provided by the regulation and submit test results within 30 days of performing the inspection. Overfill prevention equipment inspection is required once by October 13th, 2018 and every 36 months thereafter. Take all necessary precautions to ensure testing is performed in a timely manner. Ensure a 48 hour notification is provided to EHD prior to conducting the inspection. Test result for the testing performed must be submitted within 30 day of testing.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-09-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/08/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-16-2015
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 04/18/2018. Liquid was found in the truck side diesel vent sump, truck side diesel north and south turbine sumps. The gaskets from the sump lids/collars of the truck side diesel north and south turbine sumps are missing. These sumps are not liquid vapor tight. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage accordingly. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the truck side diesel vent sump, truck side diesel north and south turbine sumps under permit and inspection of the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Description: Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes: Returned to compliance on 07/17/2016. The Diesel North and Diesel South submersible turbine pump (STP) sump 208 sensors on the truck side failed when tested. The continuous monitoring system shall be maintained to detect the entry of the liquid or vapor phase of the hazardous substance stored in the primary containment into the secondary containment and to detect water intrusion into the secondary containment. The 208 sensors were replaced and retested during the inspection. A UST Retrofit Verification with Inspector Already Onsite form has been completed and provided to the operator and contractor. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Not reported
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Description: Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-01-2014
Citation: Un-Specified
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 07/01/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes: Returned to compliance on 04/18/2018. Monitoring system certification testing reports were not found on site during the inspection. Also records of repairs associated with the L11 sensor alarms on 8/22/2015, 9/9/2015, 9/10/2015 and L22 sensor alarms on 1/27/2016 and 5/20/2016 for the UST system were not found on site. These records shall be kept on site for the life of the tank. Immediately locate and maintain these records on site and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 02/01/2022. OBSERVATION: Underground storage tank (UST) Tank #4 Information forms are not current in the California Environmental Reporting System (CERS). - The biodiesel tank #4 have incorrect content marked. REGULATION GUIDANCE: Any change of information must be updated in CERS within 30 days of the changes. CORRECTIVE ACTION: Immediately log into CERS, update the required information, and submit for review by the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description: Failure to submit the Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes: Returned to compliance on 07/12/2019. Annual monitoring system certification, leak detector testing, and spill container testing was performed on 6/1/18 (truck side) and 6/8/18 (auto side) and a test report was submitted on 7/23/18, 22 days and 15 days late. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2716(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(f)
Violation Description: "Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of Designated Operator inspection records as follows: Designated operator monthly inspection records for inspections performed before October 1, 2018 must be kept for 12 months from the month of inspection. For inspections performed on or after October 1, 2018, copies of the ""Designated Underground Storage Tank Operator Visual Inspection Report"" must be kept for 36 months from the month of inspection. "
Violation Notes: Returned to compliance on 06/10/2020. The June 2018, May 2019 designated operator monthly inspection reports were not found on site. Designated operator monthly inspection reports for the previous twelve months shall be retained on site. The site manager was able to locate the auto side for May 2019 DO report but was not able to locate the truck side May 2019 inspection and June 2018 DO reports for the truck and the auto side. Locate and ensure that copies of the previous thirty six months of designated operator monthly inspection reports are maintained on site. Submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 04/20/2022. OBSERVATION: An approved copy of the response plan was not available for inspection. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-13-2022
Citation: 23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)
Violation Description: Failure to submit the Designated Underground Storage Tank Operator Identification Form within 30 days of installing a UST system or within 30 days of a change in DO.
Violation Notes: OBSERVATION: A new designated operator, Harold Largo Jr began conducting inspections on 12/22/2020 and notification was not provided to the EHD within 30 days of the change. REGULATION GUIDANCE: The owner or operator shall submit a "Designated Underground Storage Tank Operator Identification Form" no later than 30 days after any change in the designated UST operator(s). CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov and upload the notification identifying all the designated operators for this facility.

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes:	Returned to compliance on 06/10/2020. Fuel filters were observed outside of all under dispenser containments at the auto side of the facility . The underground storage tank system shall be operated to prevent unauthorized releases. Immediately contact a properly licensed, trained, and certified contractor to replace or upgrade the component under permit and inspection (if required) of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Not reported
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Not reported

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 08/08/2016. Mechanical flappers were visible in drop tubes for every underground storage tank (UST) on both the auto and truck side of the facility. The UST Tank Information forms for all five USTs in CERS list "Yes" for Fill Tube Shut-off Valve, indicating overfill protection by mechanical flappers. However, in the Comments/Additional Information section of the Monitoring Plan for all five USTs in CERS, the statement "Overfill prevention is set at 90% of tank capacity with audible and visual alarms." The service technicians could not identify whether overfill protection was performed by flappers or automatic tank gauges (ATGs). The EHD must be informed what method is used for overfill protection on both the auto and truck sides of the facility. If mechanical flappers are being used, provide documentation that the flappers have been set at 95 percent. If overfill protection is performed by 90 percent capacity of the tank using ATGs with audible and visual alarm, then verification of [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2715(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)(2)
Violation Description:	Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes:	Returned to compliance on 06/01/2018. The designated operator employee training for Antonio Martinez, Antonio Gutierrez, Monica Sanchez and Ryan Yimbol did not include a hiring date. The designated operator shall train facility employees for which he or she is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facility s best management practices 2. Employee s role with regard to monitoring

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

equipment as specified in the facility s monitoring plan 3. Employee s role with regard to spills and overfills as specified in the facility s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment alarms Ensure that employees have been trained by the designated operator, maintain the list on site, and submit a copy of the training records to the EHD. The manager on site added th missing date to correct this on [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-20-2017
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes: Returned to compliance on 06/20/2017. The 87-product spill container on the auto side and the tank 2 diesel north spill container on the truck side failed the one-hour hydrostatic test. All USTs shall be equipped with a spill container that has a minimum capacity of five gallons and a drain valve that allows drainage of the collected spill into the primary container or provides a means to keep the container empty. The service technician replaced the caps, tested functionality and the both spill containers passed the one-hour hydrostatic test. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-09-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Design/Construction - General
Violation Notes: Returned to compliance on 08/07/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 09/11/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 08/08/2016. The south diesel (D1) underground storage tank line leak detector on the truck side of the facility failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed leak detector (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD. If the failed leak detector can t be replaced immediately, there is a possibility that the south diesel (D1) UST system may be red tagged to prevent fuel inputs.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	Returned to compliance on 07/02/2018. The S2 and S7 from the truck side did not activate a high liquid alarm. S6 on the truck side would not come out of sensor fault alarm and S6 on the truck side would not come out of high liquid alarm after testing it on 6/1/17. S6 on the truck side has been replaced by elite IV however the other sensors have not been addressed yet. The interstitial space of the UST shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. - No vacuum communication on UDC 1/2, UDC 5/6, UDC 7/8, UDC 9/10, UDC 11/12. However brine communication was tested and passed on all UDCs in the auto side. - No brine communication was tested on 87, 91, and diesel

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

STP and fill sumps. However vacuum communication was tested and passed on all the sumps in the auto side. -The UDC 3/4 and vent sump in the auto side were tested for brine communication and vacuum [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-29-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/14/2017. The emergency response procedures were not complete and not submitted for 2015 . The forms are blank for the emergency response plan in CERS. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Returned to compliance on 11/15/2019. A permit to operate the UST system has not been issued. No person may own or operate an UST unless a permit for its operation has been issued by the local agency to the owner or operator of the UST system. Immediately obtain a permit to operate a UST system from the EHD. An Operating without a Permit penalty applies.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-09-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/11/2013.
Violation Division: San Joaquin County Environmental Health

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	1) OBSERVATION: The designated operator failed to check and note the correct test dates for the overfill prevention equipment on the designated operator inspection reports. The incorrect date is 06/02/2022. The correct date for overfill prevention equipment is 05/16/2022 for the Cars section. REGULATION GUIDANCE: During the inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and document the dates they were done. CORRECTIVE ACTION: Ensure that designated operators performing inspections at this facility are including all of the required information on the reports. 2) OBSERVATION: The designated operator failed to check and note all required items on the visual inspection reports. The incorrect and missing information included the following from the inspection reports: -Section 5 owner/operator follow up action corresponding to compliances issues from section 3 was left blank. REGULATI
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2716(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(f)
Violation Description:	"Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of Designated Operator inspection records as follows: Designated operator monthly inspection records for inspections performed before October 1, 2018 must be kept for 12 months from the month of inspection. For inspections performed on or after October 1, 2018, copies of the ""Designated Underground Storage Tank Operator Visual Inspection Report"" must be kept for 36 months from the month of inspection. "
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-01-2018
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Returned to compliance on 07/05/2019. A permit to operate the UST system has not been issued. No person may own or operate an UST unless a permit for its operation has been issued by the local agency to the owner or operator of the UST system. Immediately obtain a permit to operate a UST system from the EHD. An Operating without a Permit penalty applies.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 05/25/2021. Based on the work orders and the alarm history reviewed in 2018 two cold starts were conducted on the truck side and EHD was not notified of this cold starts. One cold start was conducted on 9/11/2017 and another one was conducted on 10/7/2017. Also 87 mechanical line leak detector on the auto zone was replaced on 1/26/18 without notifying EHD. No notification of these "cold starts" or replacement of the 87 line leak detector was provided to EHD prior or post these cold starts and the 87 line leak detector replacement, nor was a repair permit obtained. Obtain the permit from the EHD for these "cold starts" and line leak detector replacement. Emergency repairs relating to UST system monitoring and release detection may be performed by a properly licensed, trained, and certified contractor pursuant to the EHD'S policy and a notification shall be submitted or a permit (if required) shall be obtained within one business day from the EHD. All other repairs must have a permit submitted to an
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 06/10/2020. The monitoring plan is not current and/or not approved by the EHD. For all tanks: -Under "Pipe Monitoring is Performed Using the Following Method(s)" it states pressure for "Piping Secondary Containment" however while the

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

inspector was out on site, vacuum for "Piping Secondary Containment" was observed. -The monitoring plan did not list the sensor that is being used to monitor the vacuum of the pipe. For "Under Dispenser Containment (UDC) Monitoring" pressure is listed as "UDC Secondary Containment Monitoring" however while the inspector was out in the field the UDCs were observed to have interstitial fluid inside the secondary containment. Furthermore the monitoring plan for the Diesel south and Diesel north tank in the truck side: It states yes for "Leak Alarm Triggers Automatic Pump Shutdown" however while the inspector was on the field S1-diesel south piping sensor and S3-Diesel North piping high liquid alarm did not triggered an automatic pump shut down. The monitoring

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2637.1(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637.1(e)
Violation Description: Failure to submit a copy of the spill containment test results on the Spill Container Testing Report Form to the UPA within 30 days after the test.
Violation Notes: Returned to compliance on 07/12/2019. Spill container testing was performed on 6/1/18 (truck side) and 6/8/18 (auto side) and a test report was submitted on 7/23/18, 22 days and 15 days late. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-13-2022
Citation: 23 CCR 16 2644.1(a)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2644.1(a)(4)
Violation Description: Failure to notify the UPA 48 hours prior to testing.
Violation Notes: OBSERVATION: Dispenser #17/18 was replaced on 06/23/2022 without providing notification to the EHD at least 48 hours in advance. REGULATION GUIDANCE: Notification shall be provided to the CUPA at least 48 hours in advance of testing or repairs. CORRECTIVE ACTION: Immediately take necessary action to notify EHD for any UST component repair or replacement within 48-hours.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-30-2015
Citation: Un-Specified
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 04/18/2018. CCR 2632. The response plan

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

uploaded to CERS was not being implemented at time of inspection. At time of inspection the diesel fill bucket (auto side) had approximately 1/2g of diesel in it. The diesel bucket was noted as having fuel in it during the 5/20/2015 DO visit. Although the training is current for employees it appears employees need to have refresher training on roles with regard to spills and overfills as specified in the facility response plan. The response plan states "any release to secondary containment will be pumped out or otherwise removed within a time consistent with the ability of the secondary containment system to contain the hazardous material, but not greater than 30 calendar days, or sooner if required by the local agency. Recovered hazardous materials, unless still suitable for their intended use, will be managed as hazardous waste". Within 30 days provide written documentation how the response plan will be implemented in the future and what was [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes: Returned to compliance on 07/19/2022. OBSERVATION: Liquid was observed in UDCs 1/2, 2/3, 3/4, 4/5, diesel fill and STP sumps (truck side), UDCs 3/4, 7/8 and 11/12(Auto side) indicating a leak in the primary containment. REGULATION GUIDANCE: All primary containment for the UST system must be product tight. CORRECTIVE ACTION: Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component(s), under permit and inspection of the EHD if necessary.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-29-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 09/18/2018. Employee training records for propane and carbon dioxide were not available for review at time of inspection. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 07/19/2022. OBSERVATION: The monitoring plan is not current and/or not approved by the EHD. - The monitoring plans for the Biodiesel tanks incorrectly state the tanks are under vacuum. REGULATION GUIDANCE: The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). CORRECTIVE ACTION: Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 07/19/2022.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 06/10/2020. UST Tank Information forms for the Diesel tank #3, Diesel tank #4, Diesel tank n#5 are not current in CERS. All three tanks have secondary containment for vapor recovery blank. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2637.1(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637.1(e)
Violation Description:	Failure to submit a copy of the spill containment test results on the Spill Container Testing Report Form to the UPA within 30 days after the test.
Violation Notes:	Returned to compliance on 07/08/2021.

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 06/17/2016. Approximately one-quarter cup of water was found in the 91-product fill sump, approximately one-quarter inch of water was found on the south sloping side of the vent box on the automobile side of the facility and approximately one-half inch of water was found covering the vent box bottom on the truck side of the facility. Approximately one cup of liquid was found in the under dispenser containments (UDCs) for dispensers 13/14B, 16A/17B, 17A/18B and 18A/19. Secondary containment shall be constructed to prevent any liquid intrusion into the system by precipitation, infiltration, surface runoff or seepage. The service technicians removed the liquid during the inspection. Continue to check the 91-product sump, vent boxes and dispensers for liquid and if found, immediately contact a properly licensed, trained, and certified contractor to address the liquid intrusion into the 91-product sump, vent boxes and UDCs under permit and inspection of the Environmental Health Department [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/18/2018. Financial responsibility documents submitted to California Environmental Reporting System (CERS) are not accepted by the Environmental Health Department (EHD). Under Section A of Certification of Financial Responsibility, change 500,000 dollars per occurrence to 1 million dollars per occurrence; add "per occurrence and annual" after $995,000; and add "per occurrence and annual aggregate" after $5,000. The Letter from Chief Financial Officer lists $5,000,000 for #4 (Tangible net worth (subtract line 3 from line 2). The correct amount should be $500,000. Also the Letter from Chief Financial Office states that "property damage caused by an unauthorized release of petroleum in the amount of at least $ 1 Mil annual aggregate coverage. The $ 1 Mil should be changed to $5,000 to agree with number 1. Amount of annual aggregate coverage being assured by this letter ....$5,000. Current financial responsibility documents are required to be submitted annually. Immediately log into the [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	OBSERVATION: The facility is not in compliance with the written conditions of the operating permit. - Failure to conduct overfill prevention equipment - Failure to respond to out of compliance violations for example designated operator identification form not submitted. REGULATION GUIDANCE: The owner and operator of underground storage tank (UST) systems shall comply with all requirements of the permit issued for the operation of the UST system. CORRECTIVE ACTION: Immediately take all necessary actions to bring these UST systems into compliance.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	09-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 04/24/2020. The site map was not complete as part of the business plan. The site map is missing storm drain locations, emergency shut off locations, fill port for the carbon dioxide location, utilities shut offs (Natural gas and electrical), storm drain locations, evacuation staging area, emergency response equipment locations (fire extinguishers and spill kits), loading and unloding are for the fuel and carbon dioxide. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Notes:	Returned to compliance on 07/02/2018. Annual monitoring system certification and leak detector testing were last performed on June 20th, 2017 and vacuum sensor monitoring of the secondary containment piping was not tested at the auto on the following: - No vacuum communication on UDC 1/2, UDC 5/6, UDC 7/8, UDC 9/10, UDC 11/12. However brine communication was tested and passed on all UDCs in the auto side. - No brine communication was tested on 87, 91, and diesel STP and fill sumps. However vacuum communication was tested and passed on all the sumps in the auto side. -The UDC 3/4 and vent sump in the auto side were tested for brine communication and vacuum communication and passed. - No vacuum nor brine communication was tested on UDC 14A/15B, UDC 15A/16B, UDC 16A/17B, UDC 17A/18B, UDC 18A/19B in the truck side. - No brine communication was tested on STP sump and fill sump for Diesel tank #1 and STP sump and fill sump for diesel tank #2. However vacuum communication was tested and passed on all the sumps [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	08-08-2016
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	Returned to compliance on 06/08/2018. Vacuum sensor monitoring of the secondary containment piping of the truck side of the facility of the vacuum/pressure/hydrostatic (VPH) system has not been tested to date. The interstitial space of the underground storage tank shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Immediately contact a properly licensed, trained, and certified contractor to test communication of the VPH components under inspection by the Environmental Health Department (EHD).
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	08-08-2016
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes:	Returned to compliance on 04/18/2018. Approximately one cup of liquid was found in the south diesel spill container on the truck side of the facility and approximately two cups of liquid were found in the diesel

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spill container on the auto side of the facility. Spill containers shall be constructed to prevent any liquid retention. Note that fuel was found in the south diesel spill container during the inspection on June 17, 2016. Continue to monitor for liquid in the spill containers and remove the liquid when present.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/20/2022. 1) OBSERVATION: Financial responsibility documents have not been submitted to the EHD. The most recent financial responsibility documents in CERS are dated 05/01/2020. REGULATION GUIDANCE: Current financial responsibility documents are required to be submitted annually. CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents. 2) OBSERVATION: Current financial responsibility documents were not found on site. REGULATION GUIDANCE: A copy of current financial responsibility documents are required to be maintained on site. CORRECTIVE ACTION: Immediately obtain a copy of the facility's financial responsibility documents and maintain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-13-2022
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: OBSERVATION: An approved copy of the response plan was not available for inspection. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container.

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	Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	Returned to compliance on 06/05/2019. The Diesel #3 and Diesel #4 on the truck side spill containers had approximately 5 gallons of standing liquid when the inspector arrived on site. The spill container did not meet the five gallon capacity with the standing liquid. The service technician removed the stating liquid prior to the testing and verified the five gallon capacity without the standing liquid. All spill containers shall have a minimum capacity of five gallons and be capable of containing a spill or overfill until it is detected or cleaned up. The service technician removed the standing liquid while the inspector was on site to correct this violation. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 11/02/2020. One-30g drum was seen without the contents marked. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information. This violation was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have current UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 07/19/2022. OBSERVATION: An approved copy of the monitoring plans were not available for inspection. REGULATION GUIDANCE: A copy of these plans shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020

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Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes: Returned to compliance on 07/12/2019. The designated operator failed to document the following on the auto and truck side: On the 10/26/18 designated operator (DO) inspection report under - Section III The DO failed to add a description to all the components marked N/A or N from section VII through XI. -Section V The owner/operator failed to provide explanation of follow-up actions that will be taken for the statement provided by the DO in section III. -Section VI The OWNER / OPERATOR failed to provide at least one of the following: a name, signature, and date within 48 hours of receiving the DO report under the ACKNOWLEDGMENT OF COMPLIANCE ISSUES section. -Section IX The DO failed to mark Yes, No, or N/A to the question "Are all sensors in under-dispenser containment located to detect a leak at the earliest opportunity?" On the 11/21/18 designated operator (DO) inspection report under - Section III The DO failed to add a description to all the components marked N/A or N from section VII through XI. -Secti
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-30-2015
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes: Returned to compliance on 08/10/2015. At time of inspection the diesel fill bucket (auto side) had approximately 1/2g of diesel in it. The diesel bucket was noted as having fuel in it during the 5/20/2015 DO visit. Although the training is current for employees it appears employees need to have refresher training on roles with regard to spills and overfills as specified in the facility response plan. The designated operator shall train facility employees for which he or she

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facility s best management practices 2. Employee s role with regard to monitoring equipment as specified in the facility s monitoring plan 3. Employee s role with regard to spills and overfills as specified in the facility s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	HSC 6.7 25290.2(c) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.2(c)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 06/10/2020. Fuel filters were observed outside of all under dispenser containments at the auto side of the facility . The underground storage tank system shall be operated to prevent unauthorized releases. Immediately contact a properly licensed, trained, and certified contractor to replace or upgrade the component under permit and inspection (if required) of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the UPA or special inspector.
Violation Notes:	Returned to compliance on 07/09/2018. An inspection was last done on June 20th, 2017 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by July 20th, 2017. This information was received on 4/18/2018 resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Not reported
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 04/02/2018. An accurate UST Monitoring Site Plan has not been submitted. A site plan must be submitted identifying the locations where monitoring will be performed. Please include the Vacuum, Pressure, Hydrostatic (VPH) System monitoring sensors in the site plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ and upload a copy of the UST Monitoring Site Plan.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/08/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-02-2018
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 07/02/2018. Annual monitoring system certification and leak detector testing were last performed on June 20th, 2017. On site to witness vacuum communication and brine communication on the following: In the auto side: - Vacuum communication for 87 product, 91 product, and vapor on UDC 1/2, UDC 5/6, and UDC 9/10, was tested and passed. Vacuum communication for 87 product, 91 product, diesel and vapor and was tested and passed. - Brine communication was tested on 87, 91, and diesel STP and fill sumps was tested and passed on all the sumps. In the truck side. -

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	Vacuum and brine communication was tested on UDC 14A/15B, UDC 15A/16B, UDC 16A/17B, UDC 17A/18B, UDC 18A/19B in the truck side and passed. - Brine communication was tested on STP sump and fill sump for Diesel tank #1 and STP sump and fill sump for diesel tank #2 and passed in the truck side. Testing was completed a year and a month passed due. These tests are required once every 12 months. This was corrected on [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-30-2015
Citation:	HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description:	Failure to maintain secondary containment, as evidenced by failure of secondary containment testing.
Violation Notes:	Returned to compliance on 08/10/2015. Liquid was found in the Auto side: -Diesel fill and STP sumps -Premium fill and STP sumps, -Regular fill and STP sumps indicating a leak in the secondary containment. Secondary containment shall be impervious to the liquid and vapor of the substance contained and constructed to prevent structural weakening as a result of contact with any hazardous substances released from the primary containment. Immediately contact a properly licensed, trained, and certified contractor to make repairs to the UST system under permit and inspection of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 04/18/2018. An approved copy of the monitoring plans was not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	Returned to compliance on 06/13/2022. OBSERVATION: The 87 Smart sensor(S10) failed when tested. REGULATION GUIDANCE: The interstitial

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space of the UST shall be maintained, as designed, under constant vacuum or pressure such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. CORRECTIVE ACTION: The sensor was replaced and retested during the inspection. This was corrected on site.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: HSC 6.7 25290.1(e)2 - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)2
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 06/10/2020. The S4-91 product auto side sensor failed to have a high liquid alarm when tested. The interstitial space of the UST shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Correct immediately by having a properly licensed, trained, and certified contractor replace the failed component with a functional component (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD. If the failed component can t be replaced immediately, there is a possibility that the 91 product in the auto side UST system may be red tagged to prevent fuel inputs.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-30-2015
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 08/10/2015. An approved copy of the monitoring program were not available for inspection. A copy of this program shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-13-2022
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

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Violation Notes:	Returned to compliance on 06/13/2022. OBSERVATION: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date, January 15. - The 2022 business plan submittal was submitted late on 5/11/2022. - The 2021 business plan submittal was submitted late on 6/29/2021. - The 2020 business plan submittal was submitted late on 4/24/2020 REGULATION GUIDANCE: The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. CORRECTIVE ACTION: Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. This was corrected.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	Returned to compliance on 07/12/2019. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-05-2019
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 06/10/2020. Financial responsibility documents have not been submitted to the EHD. Financial responsibility documents were last signed on 4/18/18. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description:	Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes:	OBSERVATION: Facility could not provide the Emergency Response Plan

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and the inventory information upon request./Employees do not have access to the Emergency Response Plan and the inventory information on-site. REGULATION GUIDANCE: The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. CORRECTIVE ACTION: Immediately make arrangements to have the business plan readily available for review.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes: Returned to compliance on 04/18/2018. Liquid was found in the 87-product spill container on the automobile side of the facility and fuel was found in both the north and south spill containers on the truck side of the facility. Spill containers shall be constructed to prevent any liquid retention. The service technicians removed the liquid during the inspection. Continue to check the spill containers and if liquid is found, immediately contact a properly licensed, trained, and certified contractor to address the retention of liquid in the spill containers under permit and inspection of the Environmental Health Department (EHD). This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes: Returned to compliance on 07/12/2019. Water was found in the 91 product STP sump, Deisel STP sump, 87 product STP sump, 91 product fill sump, and vent sump in the auto side. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage accordingly. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the 91 product STP sump, Deisel STP sump, 87 product STP sump, 91 product fill sump, and vent sump in the auto side under permit and inspection of the EHD, if required.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020

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Site Name: Fast Lane Central Valley
Violation Date: 06-16-2016
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 04/19/2018. The monitoring plan is not current and/or not approved by the EHD. For T1, T2, T3, T4, and T5, beneath Pipe Monitoring is Performed Using the Following Methods, add "Yes" to Leak Alarm Triggers Automatic Pump Shutdown, and "Yes" for Failure/Disconnect Triggers Pump Shutdown. Also beneath Recordkeeping, change "No" to "Yes" for Equipment Maintenance and Calibration Records. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description: Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 06/10/2020.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 12-19-2018
Citation: HSC 6.7 25290.1(e)2 - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)2
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 07/05/2019. The S3-87 Vapor sensor was not able to pull vacuum while the inspector was on site. The interstitial space of the UST shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Correct immediately by having a properly licensed, trained, and certified contractor replace the failed component with a functional component (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD if necessary. If the failed component can t be replaced immediately, there is a possibility that the UST system may be red tagged to prevent fuel inputs.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley

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Violation Date:	06-30-2015
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 08/10/2015. 1. The designated operator failed to check and note the correct test dates for the Monitoring System Certification and spill containment structure (Bucket) on the August 2014, October 2014 and January 2015 designated operator monthly inspection report. During the monthly inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and document the dates they were done. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports. 2. The designated operator failed to document all the alarms from the attached alarm history on the Auto side: November 2014, December 2014 and the Truck side: January 2015, April 2015 designated operator monthly inspection report and failed to check that they were responded to appropriately. The missing alarms include: Auto: L-28 November 1, 2014 (2 alarms), S-6, S-7 December 7, 2014, Truck: [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-29-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/17/2016. 2-55g empty drums were seen in the hazardous waste storage area. Containers larger than five gallons that previously held a hazardous material shall be marked with the date they were emptied and managed within one year of being emptied. Immediately mark and manage all empty containers per this section.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 06/13/2022. OBSERVATION: Water was found in the UDCs 3/4, 7/8, and 11/12 sumps REGULATION GUIDANCE: Secondary

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containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff.
CORRECTIVE ACTION: The service technician removed approximately halve a gallon of liquid from the UDCs 3/4, 7/8, and 11/12 sumps and returned the sensor to its proper location. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the UDCs 3/4, 7/8, and 11/12 sumps under permit and inspection of the EHD. This was corrected on site.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-01-2018
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Returned to compliance on 07/05/2019. Fuel filters were observed outside of all under dispenser containments of the auto side at the facility. The underground storage tank system shall be operated to prevent unauthorized releases. Immediately contact a properly licensed, trained, and certified contractor to replace or upgrade the component under permit and inspection with the EHD
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Not reported
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 08-08-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 08/08/2016. The south diesel (D1) underground storage tank VMI line leak detector on the truck side of the facility failed to detect a leak when tested on 8/8/2016. The

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service technician stated that a new siphon jet valve had been installed on 6/16/2016. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. The service technician adjusted the leak detector, retested it, and it passed. This was corrected on site.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-30-2015
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 04/18/2018. UST Tank Information forms for all 5 USTs are not current in CERS. Tank 1- Overfill Protection is inaccurate Riser Pipe Primary Containment is inaccurate No information for Corrosion protection is listed Tank 2- Overfill Protection is inaccurate Riser Pipe Primary Containment is inaccurate No information for Corrosion protection is listed Tank 3- Overfill Protection is inaccurate Vapor Recovery Primary & Secondary Containment information needs verification No information for Corrosion protection is listed Tank 4- Overfill Protection is inaccurate Vapor Recovery Primary & Secondary Containment information needs verification Riser Pipe Primary Containment is inaccurate No information for Corrosion protection is listed Tank 5- Overfill Protection is inaccurate Vapor Recovery Primary & Secondary Containment information needs verification Riser Pipe Primary Containment is inaccurate No information for Corrosion protection is listed Any change of [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-13-2022
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an

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	inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes:	OBSERVATION: Overfill prevention testing has not been conducted for the truck side. The overfill conducted on the car side on 05/16/2022, test results rejected EHD did not witness testing. REGULATION GUIDANCE: Overfill prevention equipment inspections were required to be conducted by October 13, 2018, and every 36 months thereafter, and within 30 days of completion of a repair. CORRECTIVE ACTION: Immediately schedule this testing and provide 48 hours notification to the EHD. Ensure all future testing is conducted within required time frames.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-01-2014
Citation:	Un-Specified
Violation Description:	UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes:	Returned to compliance on 07/05/2019.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Design/Construction - General
Violation Notes:	Returned to compliance on 08/08/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley

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Violation Date:	06-20-2017
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 04/19/2018. The monitoring plan is not current and/or not approved by the EHD. For all five underground storage tanks: under Pipe Monitoring is Performed Using the Following Methods, add the brine interstitial 304 sensor to "Leak Sensor Model", and add "Yes" to Leak Alarm Triggers Automatic Pump Shutdown, and "Yes" to Failure Disconnect Triggers Pump Shutdown; beneath Under Dispenser Containment (UDC) Monitoring, add the brine interstitial 304 sensor; under Recordkeeping, change "No" to "Yes" for Equipment Maintenance and Calibration Records. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	09-18-2018
Citation:	HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description:	Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes:	Returned to compliance on 04/24/2020. Facility could not provide the Emergency Response Plan and the Chemical inventory upon request. The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. Immediately make arrangements to have the business plan readily available for review.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-29-2015
Citation:	40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description:	Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless it can be demonstrated to the Department that aisle space is not needed for any of these purposes.
Violation Notes:	Returned to compliance on 06/17/2016. The drums for hazardous waste were stored behind two dumpsters with a narrow passage in between the two, in a trash enclosure. The trash enclosure had inches of trash on the ground in the enclosed area. Adequate aisle space shall be maintained to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to all areas of facility operation in an emergency. Immediately maintain

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	aisle space to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description:	Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 04/18/2018. Maintenance and monitoring records for the last three years were not found on site. L11 sensor on the auto side went into alarm on 8/22/2015, 9/9/ 2015 and 9/102015, as noted by the designated operator (DO); however, the alarms were not addressed by the DO and maintenance records associated with these alarms were not found on site. L22 sensor, on the truck side, went into alarm on 1/27/2016 and went into alarm three times on 5/20/2016 but the alarms were not documented by the DO nor were maintenance records associated with these alarms found on site. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description:	Failure to submit the Underground Storage Tank Statement of Understanding and Compliance Form.
Violation Notes:	OBSERVATION: The new Underground Storage Tank Statement of Understanding and Compliance Form was not found in CERS. REGULATION GUIDANCE: This form must be uploaded to the California Environmental Reporting System (CERS). CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov and upload the Underground Storage Tank Statement of Understanding and Compliance Form for this facility.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-29-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

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Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 06/14/2017. A training program was not submitted . Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 04/02/2018. An accurate UST Monitoring Site Plan was not submitted. A site plan is a facility map that must be submitted identifying the locations where monitoring will be performed. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, remove the Underground Storage Tank Monitoring Plan currently in CERS, and upload a copy of the UST Monitoring Site Plan (map).
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes:	Returned to compliance on 04/18/2018. The designated operator failed to document all the alarms from the attached alarm history on the January 29, 2016 and May 28, 2016 designated operator monthly inspection reports and failed to check that they were responded to appropriately. The missing alarms include: L22, brine sensor in

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

dispenser 17A/18B on the truck side, on January 27, 2016 and three times on May 20, 2016. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-29-2015
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 09/18/2018. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The emergency response plan is not filled out in CERS. The last submittal date was 7/21/2014. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/18/2018. Financial responsibility documents submitted to CERS and the San Joaquin County Environmental Health Department (EHD) are not correct. Remove 500,000 dollars per occurrence and add either 1 million dollars annual aggregate or 2 million dollars annual aggregate. Note: the current Certification of Financial Responsibility and Letter from Chief Financial Officer terminate on 6/30/ 2016. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-01-2014
Citation: Un-Specified

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 04/19/2018. HSC 25404(e)(4) CERS not accepted
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)
Violation Description:	Failure to submit the Designated Underground Storage Tank Operator Identification Form within 30 days of installing a UST system or within 30 days of a change in DO.
Violation Notes:	Returned to compliance on 07/19/2022. OBSERVATION: A new designated operator, Harold Largo Jr, began conducting inspections on 12/22/2020 and notification was not provided to the EHD within 30 days of the change. REGULATION GUIDANCE: The owner or operator shall submit a "Designated Underground Storage Tank Operator Identification Form" no later than 30 days after any change in the designated UST operator(s). CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov and upload the notification identifying all the designated operators for this facility.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description:	Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 07/09/2018. The July 2017, August 2017, and October 2017 designated operator monthly inspection reports were not found on site. Designated operator monthly inspection reports for the previous twelve months shall be retained on site. Locate and ensure that copies of the previous twelve months of designated operator monthly inspection reports are maintained on site. Submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	09-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Notes:	Returned to compliance on 04/24/2020. 400 pounds of carbon dioxide and 73.5 gallons of propane were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description:	Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 04/20/2022. OBSERVATION: The Facility Employee Training Certificate dated 05/19/2021 left the initial training dates blank . REGULATION GUIDANCE: All site employees must be trained prior to taking responsibility as a facility employee if after October 1, 2018, or within 30 days of hire if prior to October 1, 2018. The Facility Employee Training Certificate shall contain accurate information for all employees trained. CORRECTIVE ACTION: Update the Facility Employee Training Certificate to contain the accurate information and submit a copy of the updated form to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-30-2015
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space under constant vacuum, pressure, or hydrostatic such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment. (Product Tight)
Violation Notes:	Returned to compliance on 06/30/2015. The interstitial space sensors

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

for UDC 14 and 16 failed when tested. The sensors monitoring the liquid level in the interstitial space shall be maintained so that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. The sensors were replaced and retested during the inspection. A UST Retrofit Verification with Inspector Already Onsite form has been completed and provided to the operator and contractor.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 06/08/2018. Communication in the 87-, 91-, and three diesel-submersible turbine pump (STP) sumps and fill sumps, and communication in the under-dispenser-containments (UDC) of the truck side of the facility as well as vacuum sensor monitoring of the secondary containment piping of the truck side of the facility of the vacuum/pressure/hydrostatic (VPH) system were not tested during the inspection on June 16 and 17, 2016. The interstitial space of the UST shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Immediately contact a properly licensed, trained, and certified contractor to test communication of the VPH components listed above under inspection by the Environmental Health Department (EHD). Documentation of the S6 diesel STP sensor on the auto side of the facility indicates that the S6 sensor has been going into alarm intermittently. On [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-29-2015
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain and/or maintain an Active EPA ID.
Violation Notes: Returned to compliance on 06/17/2016. This facility s EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Date: 06-17-2016
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes: Returned to compliance on 06/17/2016. The 87-product spill container on the auto side and the north and south diesel spill containers on the truck side of the facility contained liquid. All USTs shall be equipped with a spill container that has a minimum capacity of five gallons and a drain valve that allows drainage of the collected spill into the primary container or provide a means to keep the container empty. The liquid was removed by the service technicians during the inspection. Continue to monitor for liquid in the spill containers and remove the liquid when present. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 07/19/2022. OBSERVATION: The facility is not in compliance with the written conditions of the operating permit. Failure to respond to all violations. REGULATION GUIDANCE: The owner and operator of underground storage tank (UST) systems shall comply with all requirements of the permit issued for the operation of the UST system. CORRECTIVE ACTION: Immediately take all necessary actions to bring these UST systems into compliance. Respond to all violations.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-30-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 04/18/2018. Current financial responsibility documents have not been submitted to the EHD. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description:	Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 04/18/2018. Monitoring records for the last three years were not found on site. Monitoring system certification test reports for 2014, 2015 and 2016 were not found at the facility during the inspection. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the CUPA or special inspector.
Violation Notes:	Returned to compliance on 04/18/2018. An inspection was last done on June 16 and 17, 2016, the inspection continued on August 8, 2016 and an inspection report was issued identifying information to be submitted to bring this site into compliance. The June 16 and 17, 2016 inspection report was last amended on September 8, 2016 and the August 8, 2016 inspection report was last amended on September 15, 2016. This information was required to be submitted by October 8, 2016 and October 15, 2016, respectively. This information has not been received resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report. The existing violations include: From the 8/8/16 [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description:	"Failure to submit a copy of the overfill prevention equipment inspection results on the Overfill Prevention Equipment Inspection

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	Report Form to the UPA within 30 days after the inspection. "
Violation Notes:	Returned to compliance on 04/20/2022. OBSERVATION: Overfill prevention testing was performed on 01/25/2019 and a test report was submitted on 06/26/2019, four months late. REGULATION GUIDANCE: A copy of the test report must be submitted within 30 days of the tests. CORRECTIVE ACTION: Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description:	Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 11/02/2020. An inspection was last done on June 29, 2015 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by July 30, 2015. This information has not been received resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report. Note-2 violations, lack of emergency coordinator and contaminated container were observed as having been corrected today on site. The other 2 violations, failure to maintain adequate aisle space and inactive state ID number remain open.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2637.1(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637.1(e)
Violation Description:	Failure to submit a copy of the spill containment test results on the Spill Container Testing Report Form to the UPA within 30 days after the test.

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Notes:	Returned to compliance on 08/06/2021. OBSERVATION: A spill container testing for the auto and diesel sides were performed on 06/09/2020 and 6/10/2020. A test report was submitted to the EHD on 09/14/2020 two months late. REGULATION GUIDANCE: A copy of the test report must be submitted within 30 days of the test. CORRECTIVE ACTION: Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-13-2022
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	OBSERVATION: Maintenance and monitoring records for the last three years were not found on site. - The 2020 and 2019 monitoring system certification test results were not found on site during the inspection. REGULATION GUIDANCE: These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. CORRECTIVE ACTION: Immediately locate and maintain all missing maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description:	Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes:	Returned to compliance on 06/20/2017. The 208 sensors in the tank 1 diesel south and tank 2 diesel north submersible turbine pump (STP) sumps were located on the opposite side of the sumps from where most of the liquid had accumulated at the lowest point in the sumps and the 208 sensors were not located to detect a leak at the earliest opportunity. Monitoring equipment shall be maintained to be able to detect a leak at the earliest possible opportunity. The sensor was relocated to the lowest point of the sump by the service technician. Ensure that all monitoring equipment is maintained to detect a leak at the earliest opportunity. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain monitoring and maintenance records and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 07/09/2018. Maintenance and monitoring records for the last three years were not found on site. L23 (UDC 7-8) had an alarm on 8/23/17, L15 (vent sump auto side) had an alarm on 8/25/17, and L11 (diesel Fill on the auto side) had an alarm on 8/21/17, 8/18/17, 1/27/18, 1/1/18 the facility did not logged these alarms nor was there a work order addressing these alarms. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 07/05/2019. Based on the work orders and the alarm history reviewed two cold starts were conducted on the truck side and EHD was not notified of this cold starts. One cold start was conducted on 9/11/2017 and another one was conducted on 10/7/2017. Also 87 mechanical line leak detector on the auto zone was replaced on 1/26/18 without notifying EHD. No notification of these "cold starts" or replacement of the 87 line leak detector was provided to EHD prior or post these cold starts and the 87 line leak detector replacement, nor was a repair permit obtained. Obtain the permit from the EHD for these "cold starts" and line leak detector replacement. Emergency repairs relating to UST system monitoring and release detection may be performed by a properly licensed, trained, and certified contractor pursuant to the EHD'S policy and a notification shall be submitted or a permit (if required) shall be obtained within one business day from the EHD. All other repairs must have a permit submitted to and appro
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	05-01-2018
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 07/02/2018. Annual monitoring system certification and leak detector testing were last performed on June 20, 2017 and vacuum sensor monitoring of the secondary containment piping was not tested at the auto and truck side. Testing has not been completed and is 11 months past due. These tests are required once every 12 months. Immediately schedule these tests and provide 48 hours notification to the EHD. Please be aware that a follow up inspection will be charged at our current hourly rate. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 06/01/2018. The 87 product VMI line leak detector on the auto side failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. The service technician adjusted the leak detector, retested it, and it passed. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 07/26/2017. B-20 Biodiesel (between 5 and 20 percent) was recently added to the diesel underground storage tanks and the UST Certification of Installation/Modification has not been submitted. This certification is required to be submitted within 30 days of completion of work to the California Environmental Reporting System (CERS). Immediately log into CERS, complete the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 04/18/2018. UST Facility Operating Permit is not current in CERS. The Board of Equalization number is not valid. Also the facility telephone number, (707) 431-3510, appears to be incorrect. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD. UST Tank Information forms for the underground storage tanks (UST) T1, T2, T3, T4, and T5 are not current in CERS; there is no Corrosion Protection identified in CERS.; T3, T4 and T5 - beneath Vent, Vapor Recovery (VR) and Riser/Fill Pipe Piping Construction, remove "Fiberglass" from the Vapor Recovery Primary and Secondary Containment since there is no vapor recovery for the diesel product. For T1, T2, T4 and T5 - beneath Vent, Vapor Recovery (VR) and Riser/Fill Pipe Piping Construction, change Riser Pipe Primary Containment from Fiberglass to Steel. T4 and T5 - beneath Tank Description, change Tank Configuration from "One a [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3),25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description:	Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-20-2017

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the CUPA.
Violation Notes:	Returned to compliance on 09/06/2018. A permit to operate the UST system was not found at the site. No person may own or operate an UST unless a permit for its operation has been issued by the local agency to the owner or operator of the UST system. Immediately obtain a permit to operate a UST system from the EHD. An Operating without a Permit penalty applies.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description:	Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes:	Returned to compliance on 07/08/2021.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes:	Not reported
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-02-2018
Citation:	HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Description:	Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes:	Returned to compliance on 07/05/2019. The S3-87 Vapor sensor was not under vacuum while the inspector was on site. The interstitial space of the UST shall be maintained, as designed, under constant vacuum

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

such that a breach in the primary or secondary containment is detected before the hazardous substance is released into the environment. Correct immediately by having a properly licensed, trained, and certified contractor replace the failed component with a functional component (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD if necessary. If the failed component can t be replaced immediately, there is a possibility that the UST system may be red tagged to prevent fuel inputs.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 11/02/2020. This facility s hazardous waste ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without a hazardous waste ID number. Go to the DTSC web site http://www.dtsc.ca.gov/IDManifest/PERMHWID.cfm for the form to reactivate the ID number . Immediately reactivate your state ID number and submit evidence to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 11/02/2020. Saturated absorbent used to soak up what appeared to be fuel near dispenser 7/8 on the auto side and throughout the facility near the dispensers was seen on the ground. A 5g bucket full of saturated absorbent, which was determined to be hazardous waste at the time of inspection had a crack in the bottom and oily staining under and around it. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately pick up the saturated absorbent and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-09-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/09/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: HSC 6.7 25290.1(e)2 - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)2
Violation Description: Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-29-2015
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes: Returned to compliance on 06/17/2016. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to retain a copy of the permit to operate at the facility.
Violation Notes: Returned to compliance on 08/06/2021. OBSERVATION: A copy of the UST operating permit was not found on site. REGULATION GUIDANCE: A copy of the UST operating permit and all attachments and conditions shall be

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

retained at the facility. CORRECTIVE ACTION: Immediately obtain a copy of the permit and retain it on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-05-2019
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 06/10/2020. The designated operator employee training for Harinder Kaur and Sandeep Singh was not performed. The designated operator shall train facility employees for which he or she is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facility s best management practices 2. Employee s role with regard to monitoring equipment as specified in the facility s monitoring plan 3. Employee s role with regard to spills and overfills as specified in the facility s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment alarms Ensure that employees have been trained by the designated operator, maintain the list on site, and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-22-2021
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 07/19/2022. 1) OBSERVATION: The audible visual alarm used as the overfill prevention system is not currently functional on the diesel tanks at the truck UST. REGULATION GUIDANCE: All UST systems must be equipped with an approved, functional overfill prevention device at all times during delivery operations. CORRECTIVE ACTION: Immediately discontinue deposition of petroleum into this tank until the component is repaired or replaced by a properly licensed, trained, and certified contractor under permit and inspection of the EHD. If the failed component can t be replaced immediately, there is a possibility that the diesel UST system may be red tagged to prevent fuel inputs. 2) OBSERVATION: Overfill prevention testing at the auto UST side has not been conducted. REGULATION GUIDANCE: Overfill prevention equipment inspections were required to be conducted by October 13, 2018, and every 36 months thereafter, and within 30 days of completion of a repair. CORRECTIVE ACTION: Immedi

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-01-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)

Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 07/09/2018. The designated operator failed to document all the alarms from the attached alarm history on the11/27/2018, 12/30/2018, 1/30/2018, and 2/28/2018, designated operator monthly inspection report and failed to check that they were responded to appropriately. The missing alarms include: from the aouto side: L11- Diesel fill 3/30/18, 3/28/18, L15 8/25/17, S5 and S7 no vacuum alarm on 1/30/18, 12/30/17, 11/27/17. The alarm history fior the May 2018 report was not printed. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-01-2018
Citation:	23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description:	Failure to submit the Annual Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes:	Returned to compliance on 07/09/2018. Annual monitoring system certification, leak detector testing, and spill container testing was performed on June 20th, 2017 and a test report was submitted on 8/14/2017 , 25 days late. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-30-2015
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 04/19/2018. The monitoring plan is not current and/or not approved by the EHD. The information submitted through CERS does not list monitoring equipment for the VPH portion of the system. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Date:	06-30-2015
Citation:	23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate plot plan.
Violation Notes:	Returned to compliance on 04/02/2018. An accurate UST Monitoring Site Plan was not submitted. A site plan must be submitted identifying the locations where monitoring will be performed. An email was sent when the submittal status was changed through CERS for the UST portion. The submittal status was changed on 7/24/2014. The comments noted by regulator were "The incorrect document was uploaded for the UST Monitoring site plan. UST monitoring plans must include a Site PLan showing the general tank and piping layouts and the locations where monitoring is performed (i.e., location of each sensor, line leak detector, monitoring system control panel, etc.). A UST monitoring site plan template is available from the State Water Resources Control Board at http://www.swrcb.ca.gov/ust/forms/docs/mcf_siteplan.pdf. If your facility's Hazardous materials inventory site map shows all the required information, select the "Provided in Other Submittal Element" option on the left side of this web form and then select from [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 08/08/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/08/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 08/06/2021. 1) OBSERVATION: The designated operator inspections for the following months were performed more than 30 days after the previous inspection: - Initial inspection on 10/01/2020, next inspection performed on 11/25/2020 (52 days between the two dates) - Initial inspection on 08/03/2020, next inspection performed on 10/01/2020 ([59 days between the two dates) REGULATION GUIDANCE: The designated operator visual inspections shall be conducted within 30 days or less of the previous inspection. CORRECTIVE ACTION: Ensure that all designated operator inspections are performed within the required time frames. 2) OBSERVATION: The designated operator failed to check and note all required items on the visual inspection reports. The incorrect and missing information included the following from the inspection reports: -The DO reports of 06/11/21, 5/19/21, 4/21/21, 3/22/2021, 2/22/2021, 1/12/2021, 12/22/2020, 11/25/2020, 10/01/2020 and 08/03/2020 left section V blank (owner/operator follo

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 07-29-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/10/2015. 21 five gallon tanks of propane was found on site and has not been reported. Bulk 400 pound tank of carbon dioxide was found on site and has not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 05-01-2018
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Violation Notes:	Returned to compliance on 07/05/2019. Due to outstanding violations, a permit to operate the UST system has not been issued for 2018. No person may own or operate an UST unless a permit for its operation has been issued by the local agency to the owner or operator of the UST system. Immediately obtain a permit to operate a UST system from the EHD. An Operating without a Permit penalty applies.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-01-2014
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 04/18/2018.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	09-18-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/18/2018. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The business plan was not submitted between 11/1/2017- 1/15/2018. The business plan was submitted on 3/7/2018 making it late. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-01-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/01/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-30-2015
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	Section(s) 25291
Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 04/18/2018. Water was found in the auto side and truck side vent sumps. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage accordingly. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the auto side vent sump under permit and inspection of the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to submit or maintain a current facility plot plan.
Violation Notes:	Not reported
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-22-2021
Citation:	23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description:	Failure to submit the Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes:	Returned to compliance on 08/06/2021. OBSERVATION: A monitoring system certification, leak detector testing, and spill container testing for the auto and diesel sides were performed on 06/09/2020 and 6/10/2020. A test report was submitted to the EHD on 09/14/2020 two months late. REGULATION GUIDANCE: A copy of the test report must be submitted within 30 days of the test. CORRECTIVE ACTION: Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-17-2016
Citation:	40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description:	Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
Violation Notes:	Returned to compliance on 11/02/2020. 2 hazardous waste drums are stored in the dumpster area behind 2 dumpsters. The area has trash

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

	littered throughout it. To get to the hazardous waste containers one must squeeze between the two dumpsters or pull them out. Adequate aisle space shall be maintained to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to all areas of facility operation in an emergency. Immediately maintain aisle space to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	08-08-2016
Citation:	HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description:	Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes:	Returned to compliance on 06/08/2018. Water was found in the diesel north submersible turbine pump (STP) sump, diesel south STP sump, under dispenser containment (UDC) sumps for UDC 13/14B, UDC 14A/15B, UDC 15A/16B, UDC 16A/17B, UDC 17A/18B, and UDC 18A/19 on the truck side of the facility. Secondary containment shall be constructed to prevent any water intrusion into the system by precipitation, infiltration, or surface runoff. The service technician removed approximately: one-half cup of liquid from UDC 13/14B, one cup of liquid from UDC 14A/15B, one-half cup of liquid from UDC 15A/16B, one-and-a-half cups of liquid from UDC 16A/17B, one cup of liquid from UDC 17A/18B and one cup of liquid from UDC 18A/19 and returned the sensors to their proper locations. Note that liquid was found in UDCs: 13/14B, 16A/17B, 17A/18B and 18A/19 during the inspection on June 17, 2016. Immediately contact a properly licensed, trained, and certified contractor to address the water intrusion into the STP and UDC sumps under and [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	07-09-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Design/Construction - General
Violation Notes:	Returned to compliance on 10/11/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	116020
Site Name:	Fast Lane Central Valley
Violation Date:	06-10-2020
Citation:	HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)

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Violation Description: Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-17-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Response Plan available on site.
Violation Notes: Returned to compliance on 04/18/2018. The monitoring plan is not current and/or not approved by the EHD. For T1, T2, T3, T4, and T5, beneath Pipe Monitoring is Performed Using the Following Methods, add "Yes" to Leak Alarm Triggers Automatic Pump Shutdown, and "Yes" for Failure/Disconnect Triggers Pump Shutdown. Also beneath Recordkeeping, change "No" to "Yes" for Equipment Maintenance and Calibration Records. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-10-2020
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 07/08/2021.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Violation Date: 06-20-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 04/19/2018. UST Facility Operating Permit is not current in CERS. The Board of Equalization (BOE) number is not valid. Any change of information must be updated in CERS within 30 days of the changes. Immediately contact the BOE and get a valid BOE number. Log into CERS, update the required information, and submit for review by the EHD. UST Tank Information forms for the all five underground storage tanks are not current in CERS. Under Tank Construction: change "Yes" to "No" for Fill Tube Shut-off Valve; Under Corrosion Protection, change "No" to "Yes" for Isolation. For Tank ID

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#1, 2, 4 and 5 - under Vent, Vapor Recovery (VR) and Riser/Fill Pipe Piping Construction, change "Fiberglass" to "Steel" for Riser Pipe Primary Containment. For Tank ID #3,4 and 5 - under Vent, Vapor Recovery (VR) and Riser/Fill Pipe Piping Construction, remove "Fiberglass" from Vapor Recovery Primary Containment and remove "Fiberglass" from Vapor Recovery Secondary Containment. For Tank ID #4 and 5 - [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-01-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Immediately complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork. Note: A complete monitoring system certification testing must be conducted annually. There is a possibility that the 87 octane, 91 octane, and diesel UST systems may be red tagged to prevent fuel inputs. Violations for failure to obtain a valid permit to operate and failed to test monitoring and leak equipment annually.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection. A complete report was finished on 07/19/2022 and replaces the initial checklist. There were two violations, one violation was corrected on site. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility clerk on the day of inspections (June 19 and 20, 2017). The Environmental Health Department (EHD) has written the complete report which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report. Note: The annual monitoring system

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certification testing was not completed during the two days of testing on June 19 and 20, 2017. Vacuum sensor monitoring of the secondary containment piping on the auto and truck sides of the facility of the vacuum/pressure/hydrostatic (VPH) system were not tested during these two days. The interstitial space of the underground storage tank shall be maintained, as designed, under constant vacuum such that a breach in the primary or secondary [Truncated]

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The monitoring system certification was conducted on 6/22/2021 and 6/29/2021. An inspection checklist was provided to the facility operator on the day of inspection (6/22/2021). The EHD has written the complete report which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 08/7/2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Inspection report, corrective action statement form and a list of approve free CUPA training classes. * Overfill prevention equipment inspection was not conducted at the auto side.

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-29-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by July 30, 2015 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-09-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-19-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for a billable re-inspection. The re-inspection was scheduled by Elite IV to verify the functionality and ability to monitor the system for the smart sensor S3- 87 Vapor. When the inspector arrived on site, the service technician stated that the vacuum sensor had not been able to gain more than 0.6 inches of mercury of vacuum. He then isolated the sensor to ensure that it was functional and was able to determine that the sensor was functional. The service technician placed the sensor back into the system to verify the ability to monitor the system and attempted to reach vacuum. However the service technician stated that the sensor was not able to maintained vacuum. He determined that a pressure test is required to determine the leak source. Obtain a permit from EHD, if necessary, to investigate, repair and retest the failing component. Ensure to contact EHD for a billable re-inspection to witness functionality and ability to monitor the system for smart sensor S3-87 Vapor once
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-01-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the first day of inspection a two day inspection. The EHD has written the complete report which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site on June 16 and 17, 2016 to perform an annual monitoring system certification, spill container, and line leak detector inspection. Except for checking communication in the 87-, 91-, and diesel-submersible turbine pump (STP) sumps and fill sumps, the monitoring system certification for the automobile side of the facility was completed on June 16, 2016; on site on June 17, 2016 to perform an annual monitoring system certification, spill container, and line leak detector inspection on the truck side of the facility. Communication in the 87-, 91- and diesel STP and fill sumps on the automobile side of the facility has not been and will not be completed during this inspection. An inspection checklist was provided to the facility clerk on the first day of the inspection (6/16/2016). Due to

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time constraints, a checklist was provided to the facility clerk on the second day of the inspection (6/17/16). The Environmental Health Department (EHD) completed the written [Truncated]

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-02-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by August 1st, 2018. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-09-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-16-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: On site to witness completion of the annual monitoring system certification of the truck side USTs. This is a billable reinspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8-16-15. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial

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Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-29-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/28/2015 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The inspection was started on 6/9/20 and completed on 6/10/20. An inspection checklist was provided to the facility operator at the time of inspection. The inspector will provide a complete report to the facility operator within the next few weeks. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.

Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The inspection was started on 6/9/20 and completed on 6/10/20. An inspection checklist was provided to the facility operator at the time of inspection. The inspector will provide a complete report to the facility operator within the next few weeks. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection (Car side 6/13/2022 and auto side 6/23/2022).. A complete report was finished on 07/19/2022 and replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by July 18, 2016 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. 3-5g buckets of saturated absorbent were deemed hazardous waste at the time of inspection and placed in the solid hazardous waste drum on site. A hazardous waste label was properly completed and applied to the container.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator at the time of inspection. The EHD will generate and provide a complete report to the facility operator. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 06-29-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Completed monitoring system certification truck side . Completed

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overfill on truck side. The Auto side completed monitoring certification completed on 06/22/2021.and no overfill conducted.

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 08-08-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of continuation of the monitoring system certification inspection performed on August 8, 2016. The Environmental Health Department (EHD) completed the amended written report on September 1, 2016, which replaced the checklist left at the facility, and emailed the amended report, along with the checklist completed on August 8, 2016 and photos taken on August 8, 2016, to Hardeep Gill, environmental contact. The September 1, 2016 inspection report for the August 8, 2016 testing was amended again by the EHD on September 8, 2016, by revising violation 319. The EHD has amended for a third time the inspection report for testing performed on August 8, 2016. The revision includes removing violation 313. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-30-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspection commenced June 29, 2015. The appointment with the EHD was for 9:00am. The testing did not begin until 10:15am. Testing could not be completed on the 29th due to time constraints. A checklist of violations was left on site. Inspector arrived on site on June 30, 2015 at the 9:00am scheduled appointment time. The testing did not begin until almost 11:00am. Inspector witnessed testing by Al Milburn, technician who was on site yesterday with Brian Dunahay. The certifications used yesterday were Brian's. Inspector told Al she would need to see his certifications. He said ok. At completion of the inspection Al showed inspector certifications. His ICC certification is current but the V/R expired 6/17/2015. Al stated he completed course, need to take the online exam today after we were finished with inspection. Inspection agreed to accept certification if it was completed today and had todays date on it. Inspector spoke with Brian and he confirmed he would email a [Truncated]

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 07-09-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 10/18/2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 05-01-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-01-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-17-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-17-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-20-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-29-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 06-30-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-01-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-02-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-09-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS,

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-09-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-16-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 07-29-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 116020
Site Name: Fast Lane Central Valley
Site Address: 116 ROTH RD
Site City: LATHROP
Site Zip: 95330
Enf Action Date: 08-08-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Hardeep Gill
Entity Title: Not reported
Affiliation Address: 111 Healdsburg Ave

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95448
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	B&G Group Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95448
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Fast Lane Central Valley
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Hardeep Gill
Entity Title:	Operations Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	UST Property Owner Name

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Entity Name:	Fast Lane Central Valley
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95448
Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	UST Tank Operator
Entity Name:	B&G Group, Inc
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95448
Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Fast Lane Sierra 2018, LLC
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95448
Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	Document Preparer
Entity Name:	Christina Gill
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Hardeep Gill
Entity Title:	Opertaions Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	Fast Lane Central Valley LLC
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95448

FAST LANE CENTRAL VALLEY (Continued) **S121739838**

Affiliation Phone:	(707) 431-3510,
Affiliation Type Desc:	Legal Owner
Entity Name:	Fast Lane Central Valley LLC
Entity Title:	Not reported
Affiliation Address:	111 Healdsburg Ave
Affiliation City:	Healdsburg
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95448
Affiliation Phone:	(707) 431-3510,

D25 **STAURTS NURSERY** **RCRA-SQG** **1000427357**
NE **10936 S HARLEN RD** **FINDS** **CAD982480642**
1/8-1/4 **FRENCH CAMP, CA 95231** **ECHO**
0.198 mi.
1043 ft. **Site 1 of 10 in cluster D**

Relative: **Higher**
Actual: **18 ft.**

RCRA Listings:

Date Form Received by Agency:		19880719
Handler Name:	STAURTS NURSERY	
Handler Address:		10936 S HARLEN RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231
EPA ID:		CAD982480642
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		10936 S HARLEN RD
Contact City,State,Zip:		FRENCH CAMP, CA 95231
Contact Telephone:		209-982-0525
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		1
Mailing Address:		S HARLEN RD
Mailing City,State,Zip:		FRENCH CAMP, CA 95231
Owner Name:	STAURTS NURSERY	
Owner Type:		Private
Operator Name:	NOT REQUIRED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No

STAURTS NURSERY (Continued) **1000427357**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: STAURTS NURSERY	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

STAURTS NURSERY (Continued) **1000427357**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19880719
Handler Name: STAURTS NURSERY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002824944

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000427357

STAURTS NURSERY (Continued) **1000427357**

Registry ID:	110002824944
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002824944
Name:	STAURTS NURSERY
Address:	10936 S HARLEN RD
City,State,Zip:	FRENCH CAMP, CA 95231

E26 **BOBSTER INC** **RCRA NonGen / NLR** **1005441147**
NE **10855 S HARLAN RD** **CAR000116020**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.229 mi.
1208 ft. **Site 1 of 2 in cluster E**

Relative: **Higher**
Actual: **17 ft.**

RCRA Listings:

Date Form Received by Agency:		20050114
Handler Name:	BOBSTER INC	
Handler Address:		10855 S HARLAN RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231
EPA ID:		CAR000116020
Contact Name:		ROBERT T BETTENCOURT
Contact Address:		1475 NANA PL
Contact City,State,Zip:		MANTECA, CA 95336
Contact Telephone:		209-823-8411
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1475 NANA PL
Mailing City,State,Zip:		MANTECA, CA 95336
Owner Name:	BENETO INC	
Owner Type:		Private
Operator Name:	ROBERT BETTENCOURT	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported

BOBSTER INC (Continued) **1005441147**

Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20050218
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BENETO INC	
Legal Status:	Private
Date Became Current:	19930101
Date Ended Current:	Not reported
Owner/Operator Address:	10855 S HARLAN RD
Owner/Operator City,State,Zip:	FRENCH CAMP, CA 95231
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: ROBERT BETTENCOURT	
Legal Status:	Private
Date Became Current:	20040617
Date Ended Current:	Not reported

BOBSTER INC (Continued) **1005441147**

Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: ROBERT BETTENCOURT
Legal Status: Private
Date Became Current: 20040617
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROBERT BETTENCOURT
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1475 NANA PL
Owner/Operator City,State,Zip: MANTECA, CA 95336-6423
Owner/Operator Telephone: 209-823-5928
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BENETO INC
Legal Status: Private
Date Became Current: 19930101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20020513
Handler Name: ROBERT BETTENCOURT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

BOBSTER INC (Continued) **1005441147**

Receive Date:	20040825
Handler Name: BETTENCOURT TRUCKING	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20050114
Handler Name: BOBSTER INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56211
NAICS Description:	WASTE COLLECTION

NAICS Code:	562111
NAICS Description:	SOLID WASTE COLLECTION

NAICS Code:	562112
NAICS Description:	HAZARDOUS WASTE COLLECTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D27 **KAG WEST** **RCRA NonGen / NLR** **1024847512**
NE **10852 S HARLAN RD** **CAL000402459**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.229 mi.
1209 ft. **Site 2 of 10 in cluster D**

Relative:
Higher

Actual:
18 ft.

RCRA Listings:

Date Form Received by Agency:	20141121
Handler Name: KAG WEST	
Handler Address:	10852 S HARLAN RD
Handler City,State,Zip:	FRENCH CAMP, CA 95231
EPA ID:	CAL000402459
Contact Name:	JAMES KING

KAG WEST (Continued) **1024847512**

Contact Address:		1 TOWER LANE SUITE 2325
Contact City,State,Zip:		OAKBROOK TERRACE, IL 60181
Contact Telephone:		630-472-5923
Contact Fax:		630-472-0495
Contact Email:		JAMES.KING@THEKAG.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4366 MOUNT PLEASANT ST NW
Mailing City,State,Zip:		NORTH CANTON, OH 44720-5446
Owner Name:	KAG WEST	
Owner Type:		Other
Operator Name:	JAMES KING	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking

KAG WEST (Continued) **1024847512**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180906
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: KAG WEST	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4366 MOUNT PLEASANT ST NW
Owner/Operator City,State,Zip:	NORTH CANTON, OH 44720-5446
Owner/Operator Telephone:	330-409-1030
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JAMES KING	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1 TOWER LANE SUITE 2325
Owner/Operator City,State,Zip:	OAKBROOK TERRACE, IL 60181
Owner/Operator Telephone:	630-472-5923
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20141121
Handler Name: KAG WEST	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

KAG WEST (Continued) **1024847512**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 562119
NAICS Description: OTHER WASTE COLLECTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D28 **DEMAR TRANSPORTATION** **RCRA NonGen / NLR** **1014388008**
NE **10850 S HARLAN RD** **CAR000216838**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.230 mi.
1213 ft. **Site 3 of 10 in cluster D**

Relative: **Higher**
Actual: **18 ft.**

RCRA Listings:

Date Form Received by Agency:		20110228
Handler Name:	DEMAR TRANSPORTATION	
Handler Address:		10850 S HARLAN RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231
EPA ID:		CAR000216838
Contact Name:		BOGUMILA T HENDOWSKI
Contact Address:		1473 SNYDER ST
Contact City,State,Zip:		MANTECA, CA 95336
Contact Telephone:		209-608-4819
Contact Fax:		Not reported
Contact Email:		DEMARTRANS@YAHOO.COM
Contact Title:		GEN PARTNER
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1473 SNYDER ST
Mailing City,State,Zip:		MANTECA, CA 95336
Owner Name:	SYBLE CLARK	
Owner Type:		Private
Operator Name:	DEMAR TRANSPORTATION	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		Yes
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No

DEMAR TRANSPORTATION (Continued) **1014388008**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20110307
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DEMAR TRANSPORTATION	
Legal Status:	Private
Date Became Current:	20091201
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

DEMAR TRANSPORTATION (Continued) **1014388008**

Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: SYBLE CLARK	
Legal Status:	Private
Date Became Current:	20071001
Date Ended Current:	Not reported
Owner/Operator Address:	8105 W DEPOT MASTER CT
Owner/Operator City,State,Zip:	TRACY, CA 95304
Owner/Operator Telephone:	650-400-2684
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20110228
Handler Name: DEMAR TRANSPORTATION	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48422
NAICS Description:	SPECIALIZED FREIGHT (EXCEPT USED GOODS) TRUCKING, LOCAL
NAICS Code:	562111
NAICS Description:	SOLID WASTE COLLECTION
NAICS Code:	562112
NAICS Description:	HAZARDOUS WASTE COLLECTION
NAICS Code:	562211
NAICS Description:	HAZARDOUS WASTE TREATMENT AND DISPOSAL

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D29 NE 1/8-1/4 0.231 mi. 1218 ft. | **JOHN R LAWSON ROCK & OIL INC**
10848 S HARLAN RD
FRENCH CAMP, CA 95231
Site 4 of 10 in cluster D | **RCRA NonGen / NLR** | **1024806408**
CAL000268744

Relative: Higher
Actual: 18 ft.

RCRA Listings:

Date Form Received by Agency:	20030407
Handler Name:	JOHN R LAWSON ROCK & OIL INC
Handler Address:	10848 S HARLAN RD
Handler City,State,Zip:	FRENCH CAMP, CA 95231-9600
EPA ID:	CAL000268744
Contact Name:	JOHN LAWSON OR KIM BYARS
Contact Address:	PO BOX 9899
Contact City,State,Zip:	FRESNO, CA 93794
Contact Telephone:	559-276-2220
Contact Fax:	559-276-2227
Contact Email:	KIMJRLRO@SBCGLOBAL.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 9899
Mailing City,State,Zip:	FRESNO, CA 93794-0899
Owner Name:	JOHN R LAWSON ROCK & OIL INC
Owner Type:	Other
Operator Name:	JOHN LAWSON OR KIM BYARS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

JOHN R LAWSON ROCK & OIL INC (Continued) **1024806408**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JOHN R LAWSON ROCK & OIL INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5723 N GOLDEN STATE BLVD
Owner/Operator City,State,Zip:	FRESNO, CA 93722-9351
Owner/Operator Telephone:	559-276-2220
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JOHN LAWSON OR KIM BYARS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 9899
Owner/Operator City,State,Zip:	FRESNO, CA 93794
Owner/Operator Telephone:	559-276-2220
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

JOHN R LAWSON ROCK & OIL INC (Continued) **1024806408**

Historic Generators:
Receive Date: 20030407
Handler Name: JOHN R LAWSON ROCK & OIL INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48422
NAICS Description: SPECIALIZED FREIGHT (EXCEPT USED GOODS) TRUCKING, LOCAL

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D30 **JOHN R LAWSON ROCK & OIL** **CERS HAZ WASTE** **S121741815**
NE **10848 S HARLAN** **CERS** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.231 mi.
1218 ft. **Site 5 of 10 in cluster D**

Relative:
Higher

Actual:
18 ft.

CERS HAZ WASTE:
Name: JOHN R LAWSON ROCK & OIL
Address: 10848 S HARLAN
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 126524
CERS ID: 10184373
CERS Description: Hazardous Waste Generator

CERS:
Name: JOHN R LAWSON ROCK & OIL
Address: 10848 S HARLAN
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 126524
CERS ID: 10184373
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 09-17-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Violation Notes:	Returned to compliance on 09/21/2015. 600 Gallons of Used Oil, 238 gallons of new motor oil, and 1000 gallons of DEF, were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	06-24-2019
Citation:	22 CCR 11 66261.7 - California Code of Regulations, Title 22, Chapter 11, Section(s) 66261.7
Violation Description:	Failure to manage empty containers greater than 5 gallons in capacity that previously held a hazardous material/waste in accordance with 22 CCR 11 66261.7 including but not limited to the following: (e)(2)By reclaiming its scrap value onsite or shipping the container or inner liner to a person who reclaims its scrap value; or (3) By reconditioning or re manufacturing the container or inner liner onsite for subsequent reuse, or shipping the container or inner liner to a person who reconditions or re-manufactures the container or inner liner; or (4) By shipping the container or inner liner to a supplier or to another intermediate collection location for accumulation prior to managing the container or inner liner pursuant to subsections (e)(2) or (e)(3) of 22 CCR 11 66261.7; or (i) By shipping the container or inner liner back to the supplier for the purpose of being refilled. (f) A container or an inner liner removed from a container larger than five gallons in capacity which is managed pursuant to subsection (e) of 22 CCR 11 66261.7 shall be marked with the date it has been emptied and shall be managed within one year of being emptied.
Violation Notes:	Returned to compliance on 07/24/2019. Two blue 55 gallon poly drums in the compressor room were missing empty labels. Containers larger than five gallons that previously held a hazardous material shall be marked with the date they were emptied and managed within one year of being emptied. Immediately mark and manage all empty containers per this section.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-25-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/25/2018. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The business plan was not submitted between 11/1/2018 to The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 06-24-2019
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 07/24/2019. In the shop area: -Two black 55 gallon steel drums (full, 1/3 full) containing oil filters were missing accumulation start dates. -One green 55 gallon steel drum containing oil filters (1/8 full) was missing an accumulation start date. -One blue 16 gallon steel drum containing oily debris (1/2 full) was missing an accumulation start date. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Since it cannot be determined how long the hazardous waste has been on site, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest. Submit a copy of the manifest to the EHD within 30 days.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 09-17-2015
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 12/22/2015. Training records were not available at the time of inspection. The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-17-2015
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/21/2015. A Hazardous Materials Business Plan has not been established or implemented. A Hazardous Materials Business Plan shall be established and implemented for emergency response to a release or threatened release of a hazardous material when storing hazardous materials at or above the thresholds quantities of 55 gallons for materials that are liquids, 500 pounds for solids, or 200 cubic feet for compressed gas, at standard temperature and pressure. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-17-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/21/2015. A training program was not submitted at the time of inspection. Training programs for all employees and annual training, including refresher courses, shall include safety procedures for the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the facility's emergency response plans and procedures. These training programs may take into consideration of each employee. Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	06-24-2019
Citation:	40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 07/24/2019. In the shop area, one 16 gallon

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

steel drum containing oily debris and three 55 gallon steel drums containing oil filters were observed open. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 06-24-2019
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 07/24/2019. Copies of uniform manifests for the disposal of hazardous waste for oily debris were not found on site for the past three years. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit the missing copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 09-25-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/13/2020. The Hazardous Materials Inventory forms for new oil and used oil were not complete. Please update the chemicals to the new federal hazard categories. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 09-17-2015
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Violation Notes:	Returned to compliance on 09/21/2015. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-25-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 01/13/2020. A site map was not complete as part of the business plan. If acronyms are used please list what they mean. What doe EXT mean? Please add utilities shut offs, chemical loading, and unloading areas to the site map. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-17-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/21/2015. The facility's business plan was not submitted electronically to the California Environmental Reporting System (CERS). As of January 1, 2013, all businesses were required to submit all business plans electronically. Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-17-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 09/21/2015. A site map was not submitted as part of the business plan. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	06-24-2019
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/24/2019. In the shop area: Two black 55 gallon steel drums (full, 1/3 full) containing oil filters were observed with hazardous waste labels missing the accumulation start date, physical property, hazardous property, name and address of the generator, and the words "hazardous waste." -One green 55 gallon steel drum containing oil filters (1/8 full) was missing a hazardous waste label. -One blue 16 gallon steel drum containing oily debris (1/2 full) was missing a hazardous waste label. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	126524
Site Name:	JOHN R LAWSON ROCK & OIL
Violation Date:	09-17-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/21/2015. The emergency response procedures were submitted at the time of inspection. A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Violation Date: 09-17-2015
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 09/21/2015. The Business Owner/Operator Identification form was not submitted. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-24-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by July 24, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. The following minor violation was corrected during the inspection: An emergency coordinator was missing from the contingency plan. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. The emergency coordinator was added to the plan during the inspection. Wa
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-25-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

paperwork, by 10/25/2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 18th, 2015. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 126524
Site Name: JOHN R LAWSON ROCK & OIL
Site Address: 10848 S HARLAN
Site City: FRENCH CAMP
Site Zip: 95231
Enf Action Date: 09-17-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Brian Duncan
Entity Title: Not reported
Affiliation Address: 10848 S. Harlan Rd.
Affiliation City: French Camp
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95231
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: JOHN R LAWSON ROCK & OIL
Entity Title: Not reported
Affiliation Address: 10848 S HARLAN RD
Affiliation City: FRENCH CAMP
Affiliation State: CA
Affiliation Country: United States

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Affiliation Zip:	95231
Affiliation Phone:	(209) 983-0951,
Affiliation Type Desc:	Operator
Entity Name:	Brian Duncan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 564-0005,
Affiliation Type Desc:	Identification Signer
Entity Name:	Brian Duncan
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	1868 East Hazelton Avenue
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95205-6232
Affiliation Phone:	(209) 468-3420,
Affiliation Type Desc:	Property Owner
Entity Name:	Steve Beneto
Entity Title:	Not reported
Affiliation Address:	PO Box 1496
Affiliation City:	West Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 371-8241,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	10848 S HARLAN RD
Affiliation City:	FRENCH CAMP
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95231
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	JOHN R LAWSON ROCK & OIL
Entity Title:	Not reported
Affiliation Address:	Not reported

JOHN R LAWSON ROCK & OIL (Continued) **S121741815**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

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31 **JASBAR SINGH FARM** **UST** **U004259403**
North **235 BRIGGS RD** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.234 mi.
1238 ft.

Relative: UST SAN JOAQUIN:
Higher
Actual: Name: JASBAR SINGH FARM
18 ft. Address: 235 BRIGGS RD
City,State,Zip: LATHROP, CA 95330
Region: SJ
Facility Id: FA0023712
Mail Address: 11191 VALLEJO CT
Mail Address 2: Not reported
Mail Care of: Not reported
Mail City,St,Zip: FRENCH CAMP, CA 95231

Tank Rec ID: Not reported
Tank Number: 1
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 500
Product Type Desc: (none)
Program Element: 2360
Decode for Program Element: 2360 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: Not reported
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: 11/17/2016
Latitude: 37.8589683650
Longitude: -121.2868494083

D32 **BENETO TANK LINES** **UST** **U003786669**
NE **10842 HARLAN RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.235 mi.
1241 ft. **Site 6 of 10 in cluster D**

Relative: UST:
Higher
Actual: Name: BENETO TANK LINES
18 ft. Address: 10842 HARLAN RD
City,State,Zip: FRENCH CAMP, CA 95231
Facility ID: FA0006898
Permitting Agency: Not reported
CERSID: Not reported
Latitude: 37.8583245877102

BENETO TANK LINES (Continued) **U003786669**

Longitude:	-121.278827190399
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

D33 **RAMOS OIL-FRENCH CAMP** **UST** **U004023354**
NE **10842 S HARLAN RD** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.235 mi.
1241 ft. **Site 7 of 10 in cluster D**

Relative: UST:
Higher

Actual:
18 ft.

Name:	RAMOS OIL-FRENCH CAMP
Address:	10842 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	10182151
Latitude:	37.8587000
Longitude:	-121.277200
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported

RAMOS OIL-FRENCH CAMP (Continued) **U004023354**

Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

Name:	RAMOS OIL-FRENCH CAMP
Address:	10842 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
CERSID:	Not reported
Latitude:	37.8587
Longitude:	-121.2772
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported
Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported

RAMOS OIL-FRENCH CAMP (Continued) **U004023354**

Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

UST SAN JOAQUIN:

Name:	RAMOS OIL-FRENCH CAMP
Address:	10842 S HARLAN RD
City,State,Zip:	FRENCH CAMP, CA 95231
Region:	SJ
Facility Id:	FA0006898
Mail Address:	PO BOX 401
Mail Address 2:	Not reported
Mail Care of:	RAMOS OIL CO., INC
Mail City,St,Zip:	WEST SACRAMENTO, CA 95691

Tank Rec ID:	TA0505616
Tank Number:	1
Tank Status:	01 - Active, billable
Tank Capacity:	20000
Product Type Desc:	03 - DIESEL
Program Element:	2361
Decode for Program Element:	2361 - UST FACILITY
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10182151
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	4/1/1995
Date of Closure:	Not reported
Latitude:	37.8588221360
Longitude:	-121.2806575008

D34 **RAMOS OIL FRENCH CAMP** **RCRA NonGen / NLR** **1024810382**
NE **10842 S HARLAN RD** **CAL000289406**
1/8-1/4 **FRENCH CAMP, CA 95231**
0.235 mi.
1241 ft. **Site 8 of 10 in cluster D**

Relative: **Higher**
Actual: **18 ft.**

RCRA Listings:

Date Form Received by Agency:		20041220
Handler Name:	RAMOS OIL FRENCH CAMP	
Handler Address:		10842 S HARLAN RD
Handler City,State,Zip:		FRENCH CAMP, CA 95231
EPA ID:		CAL000289406
Contact Name:		JOY KACHADORIAN
Contact Address:		1515 SOUTH RIVER ROAD
Contact City,State,Zip:		WEST SACRAMENTO, CA 95691-0401
Contact Telephone:		916-371-2570
Contact Fax:		916-371-3028
Contact Email:		JOYK@RAMOSOIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 401
Mailing City,State,Zip:		WEST SACRAMENTO, CA 95691
Owner Name:	RAMOS OIL CO	
Owner Type:		Other
Operator Name:	JOY KACHADORIAN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

RAMOS OIL FRENCH CAMP (Continued) **1024810382**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required: Not reported	
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: RAMOS OIL CO	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 401
Owner/Operator City,State,Zip:	WEST SACRAMENTO, CA 95691
Owner/Operator Telephone:	916-371-2570
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JOY KACHADORIAN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1515 SOUTH RIVER ROAD
Owner/Operator City,State,Zip:	WEST SACRAMENTO, CA 95691-0401
Owner/Operator Telephone:	916-371-2570
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

RAMOS OIL FRENCH CAMP (Continued) **1024810382**

Historic Generators:
Receive Date: 20041220
Handler Name: RAMOS OIL FRENCH CAMP
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44719
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D35 NE 1/8-1/4 0.235 mi. 1241 ft. **BENETO INC.** **LUST S107619744**
10842 HARLAN **Cortese N/A**
FRENCH CAMP, CA 95231 **CERS**
Site 9 of 10 in cluster D

Relative: Higher
Actual: 18 ft.

LUST:
Name: BENETO INC.
Address: 10842 HARLAN
City,State,Zip: FRENCH CAMP, CA 95231
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607709384
Global Id: T0607709384
Latitude: 37.858369
Longitude: -121.277711
Status: Completed - Case Closed
Status Date: 11/30/2007
Case Worker: Not reported
RB Case Number: 391172
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 0001685
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607709384
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler

BENETO INC. (Continued) **S107619744**

Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607709384
Action Type: ENFORCEMENT
Date: 01/31/2006
Action: Notice of Responsibility

Global Id: T0607709384
Action Type: Other
Date: 05/06/2005
Action: Leak Reported

Global Id: T0607709384
Action Type: REMEDIATION
Date: 12/20/2004
Action: Monitored Natural Attenuation

Global Id: T0607709384
Action Type: ENFORCEMENT
Date: 11/30/2007
Action: Closure/No Further Action Letter

Global Id: T0607709384
Action Type: Other
Date: 05/06/2005
Action: Leak Stopped

Global Id: T0607709384
Action Type: Other
Date: 12/20/2004
Action: Leak Discovery

LUST:
Global Id: T0607709384
Status: Open - Case Begin Date
Status Date: 12/20/2004

Global Id: T0607709384
Status: Open - Site Assessment
Status Date: 01/31/2006

Global Id: T0607709384
Status: Open - Site Assessment
Status Date: 09/06/2006

Global Id: T0607709384
Status: Open - Verification Monitoring
Status Date: 09/06/2006

Global Id: T0607709384
Status: Completed - Case Closed

BENETO INC. (Continued) **S107619744**

Status Date: 11/30/2007

LUST REG 5:

Name:	BENETO INC.
Address:	10842 HARLAN
City:	FRENCH CAMP
Region:	5
Status:	Case Closed
Case Number:	391172
Case Type:	Soil only
Substance:	DIESEL
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

CORTESE:

Name:	BENETO INC.
Address:	10842 HARLAN
City,State,Zip:	FRENCH CAMP, CA 95231
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607709384
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	BENETO INC.
Address:	10842 HARLAN
City,State,Zip:	FRENCH CAMP, CA 95231
Site ID:	254545
CERS ID:	T0607709384
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200

BENETO INC. (Continued) **S107619744**

Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

D36 **RAMOS OIL-FRENCH CAMP** **CERS HAZ WASTE** **S121788905**
NE **10842 S HARLAN RD** **CERS TANKS** **N/A**
1/8-1/4 **FRENCH CAMP, CA 95231** **CERS**
0.235 mi.
1241 ft. **Site 10 of 10 in cluster D**

Relative: Higher

Actual: 18 ft.

CERS HAZ WASTE:
Name: RAMOS OIL-FRENCH CAMP
Address: 10842 S HARLAN RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 60255
CERS ID: 10182151
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: RAMOS OIL-FRENCH CAMP
Address: 10842 S HARLAN RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 60255
CERS ID: 10182151
CERS Description: Underground Storage Tank

CERS:
Name: RAMOS OIL-FRENCH CAMP
Address: 10842 S HARLAN RD
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 60255
CERS ID: 10182151
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-27-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 03/01/2017. The designated operator employee training was not complete. The log on site did not have the name of the trainer, and the information employees were trained on. Immediately provide training for employees and submit a completed training log to the EHD. This is a repeat violation (which is currently still open) from 2015.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate plot plan.
Violation Notes:	Returned to compliance on 10/20/2017. An accurate UST Monitoring Site Plan was not submitted. Missing are the UDC sensors, annular sensor, and fill sump sensor. A site plan must be submitted identifying the locations where monitoring will be performed. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ and upload a copy of the UST Monitoring Site Plan.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description:	Failure to construct, operate, and maintain primary containment as product-tight.
Violation Notes:	Returned to compliance on 03/01/2017. Diesel liquid was discovered in UDCS 1-2, 2S-3, 3-4 and 4S-5S dispensers, during the 2015 routine inspection, indicating a leak in the primary piping. All primary containment for the UST system must be tight. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD. This is a repeat violation (which is currently still open) from 2015.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes:	Returned to compliance on 10/20/2017. The UST Tank Information form for the diesel tank (TA0505616) is not current in CERS. Primary containment tank construction, piping construction and piping primary containment, vent primary and secondary containment construction, vapor recovery primary and secondary containment construction, riser pipe primary and secondary containment construction, vent piping transition sumps construction, and corrosion protection were not provided or were incorrect. Also the applicant's name on the UST Tank Information form is outdated. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2021
Citation:	23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description:	Failure to submit the Monitoring System Certification Form to the UPA within 30 days of completion of the test.
Violation Notes:	Returned to compliance on 10/27/2021. OBSERVATION: A monitoring system certification, leak detector testing, and spill container testing were performed on 10/29/2020. A test report has not been submitted to the EHD or the California Environmental Reporting System (CERS). REGULATION GUIDANCE: A copy of the test report must be submitted within 30 days of the test. CORRECTIVE ACTION: Immediately provide this report to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-28-2022
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	OBSERVATION: An approved copy of the response plan was not available for inspection. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 11/19/2018. UST Tank Information form is not current in CERS. The tank manufacturer is incorrectly listed as Xerxes; the tank was observed to be Containment Solutions. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 11/19/2018. Maintenance and monitoring

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

records for the last three years were not found on site. Copies of the test results from the 2017 secondary containment testing and the 2016 and 2017 monitoring system certification were not found on site. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all missing maintenance and monitoring records for the last three years on site and submit copies to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2020
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 10/25/2021. OBSERVATION: Current financial responsibility documents were not found on site. REGULATION GUIDANCE: A copy of current financial responsibility documents are required to be maintained on site. CORRECTIVE ACTION: Immediately obtain a copy of the facility's financial responsibility documents and maintain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the local agency or the special inspector.
Violation Notes: Returned to compliance on 03/01/2017. An inspection was last done on October 30, 2014 and an inspection report was issued identifying information to be submitted to bring this site into compliance, including submitting complete financial responsibility documents. This information was required to be submitted by November 30, 2014. This information has not been received resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-30-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 11/26/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2017
Citation:	23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description:	Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.
Violation Notes:	Returned to compliance on 04/06/2018. Maintenance and monitoring records for the last three years were not found on site. The 2016 annual spill bucket and line leak detector test results were not available for review during the time of inspection. On the July 2017 monthly designated operator (DO) report, the DO mentioned that the filter piping was leaking which was triggering an L7: master dispenser 3-4 alarm. The DO noted that a "Ramos Mechanic" came out to the site to fix the leak. There were no work orders or logs found on site documenting the repair. Immediately submit documents showing how the leak was fixed and what was done with the waste to the EHD. On October 20, 2017, there was an L2: diesel stp sump fuel alarm that occurred. According to Joy Kachadorian, Ramos should have come to the site to investigate the alarm. There were no records on site indicating how the alarm was handled. Immediately submit documents to EHD showing how the alarm was handled. These records shall be maintained [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes:	Returned to compliance on 10/25/2021. OBSERVATION: An inspection was last done on 10/31/2019 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by 11/30/2019. This information has not been received resulting in a non-compliant status for this facility. REGULATION GUIDANCE: An operator that receives an inspection report shall have 30 days to implement the corrections specified in the inspection report and comply with permit conditions. The corrective action shall include all of the recommendations made in the report. The operator shall submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken.

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

CORRECTIVE ACTION: Ensure that a written response documenting corrective actions taken or proposed is submitted and all corrections implemented within 30 days of receiving an inspection report.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 01/07/2021. Observation: The emergency response(ER) procedures were lacking or inadequate. Under section C the phone number for the Local Unified Program Agency, 209-468-3420 has not been listed correctly. Regulation Guidance: A business plan shall include the following emergency response procedures for a release or threatened release of hazardous materials, including, but not limited to, the following: - immediate notification of local emergency personnel and the Environmental Health Department (EHD) - procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment - evacuation plans and procedures, including immediate notice, for the site. Corrective action: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 10/20/2017. The monitoring plan is not current and/or not approved by the EHD. The monitor panel manufacturer, monitor panel model, leak sensor manufacturer, leak sensor model number, continuous monitoring of piping secondary containment, pipeline integrity testing and frequency, UDC monitoring, UDC panel manufacturer and model number, UDC leak sensor and model and UDC construction were incomplete or inaccurate. The monitoring system at the site was changed from an Incon to a Veeder Root monitoring panel and sensors in October 2012. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 10/25/2021. OBSERVATION: The designated operator failed to check and note all required items on the visual inspection reports. The incorrect and missing information included the following from the inspection reports: -Question 9 was left blank. REGULATION GUIDANCE: During the visual inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and shall check all required items on the report. CORRECTIVE ACTION: Ensure that designated operators performing visual inspections at this facility are including all of the required information on the reports.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Manifest number 018139946JJK (12/21/17) was not found on site. Manifest number 013679675JJK (10/7/16) was found on site without a TSDF signed copy. Hazardous waste generators shall retain copies of all manifests for three years or until a copy signed off by the destination facility is received. The signed off copy shall be retained and made readily available for review for three years. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the miss

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2020
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description: Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 10/25/2021. OBSERVATION: Maintenance and monitoring records for the last three years were not found on site. - The 10//8/2018 Overfill prevention test results were not on site at the time of inspection. - The 10/31/2019 Monitoring system certification form test results were not site at the time of inspection. REGULATION GUIDANCE: These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. CORRECTIVE ACTION: Immediately locate and maintain all missing maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 03/01/2017. Complete financial responsibility documents have not been submitted to the EHD. The date is missing on the Certification of Financial Responsibility. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-30-2014
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to maintain the primary containment as product-tight.
Violation Notes: Returned to compliance on 10/30/2014. Approximately 1 cup of diesel

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

fuel was observed in the Dispenser #2 and #4 UDC, indicating a leak in the primary piping. All primary containment for the UST system must be tight. Observed technician cleaned up the fuel with absorbent pads which were then placed in a hazardous waste container on site, and tightened the connection in the Dispenser which technician said the "weeping" was coming from. Violation has been corrected on site. This is a Minor Violation.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 10/20/2017. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2021
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: OBSERVATION: Liquid was observed in the satellite 1 and 3-4 under dispenser containment. REGULATION GUIDANCE: If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. CORRECTIVE ACTION: Immediately remove this liquid, make a hazardous waste determination per Title 22 hazardous waste regulations, and manage it accordingly. Ensure that all sumps and annular spaces are maintained free of liquid.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2017
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

	has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes:	Returned to compliance on 04/06/2018. The designated operator failed to review all of the liquid sensor alarms from the alarm history on the 5/31/2017 designated operator monthly inspection report and failed to check that they were responded to appropriately. The L8 satellite dispenser pan 4-5 alarm was missing from the attached print out. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 01/07/2021. Observation: The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. Regulation Guidance : The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. Corrective action: Immediately log into the CERS at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2021
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to retain a copy of the permit to operate at the facility.
Violation Notes:	Returned to compliance on 01/11/2022. OBSERVATION: A current copy of the UST operating permit was not found on site. The most recent permit on site was dated 2019. REGULATION GUIDANCE: A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. CORRECTIVE ACTION: Immediately obtain a copy of the 2021 permit and retain it on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Response Plan available on site.
Violation Notes:	Returned to compliance on 03/01/2017. An approved copy of the response plan was not available for inspection. A copy of these plans must be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-31-2019
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	Returned to compliance on 10/28/2020. An approved copy of the response plan was not available for inspection. A copy of this plan shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	22 CCR 12 66262.42 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.42
Violation Description:	Failure to complete the uniform hazardous waste manifest exception requirements.
Violation Notes:	Returned to compliance on 02/23/2017. Manifest numbers 009925400JJK (5/23/13), 009925285JJK (10/28/13), 011290771JJK (05/01/14), and 013679756JJK (03/13/15) were not found at this facility. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifests or prepare and submit the required information to [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 03/01/2017. Current financial responsibility documents are required to be submitted annually. The CFR letter submitted for 2016 is missing a witness or notary signature. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents. This is a repeat violation (which is currently still open) from 2015.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 10/20/2017. An accurate UST Monitoring Site Plan was not submitted. A site plan must be submitted identifying the locations where monitoring will be performed. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ and upload a copy of the UST Monitoring Site Plan. This is a repeat violation (which is currently still open) from 2015.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 10/20/2017. An approved copy of the monitoring plan was not available for inspection. A copy of these plans must be accessible on site at all times. Immediately locate and retain a copy on site. This is a repeat violation (which is currently still open) from 2015.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	An emergency coordinator and modified contingency plan information is

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lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-30-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 12/28/2016. Last financial responsibility documents submitted to the EHD and uploaded to the CERS website were dated 3/22/2013 and therefore is no longer current. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the required documents. This is a repeat violation, Class II.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: HSC 6.7 25291(a)(1) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(a)(1)
Violation Description: Failure to maintain the primary containment as product-tight.
Violation Notes: Returned to compliance on 03/01/2017. Diesel liquid was discovered in the UDC at 1-2, 2S-3S, 3-4, and 4S-5S dispensers, indicating a leak in the primary piping. All primary containment for the UST system must be tight. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed component under permit and inspection of the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 01/07/2021. Observation: Proof of employees

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

training was not provided during the inspection . Regulation Guidance: The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. All employees shall be trained in safety procedures in the event of a release or threatened release of a hazardous material, including, but not limited to, familiarity with the following plans and procedures: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Corrective action: Immediately provide employee training

Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-27-2016
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.
Violation Notes: Returned to compliance on 03/01/2017. Maintenance and monitoring records for the last three years were not found on site. Monitoring system certification test results for 2013 were not found on site. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the last three years on site and submit copies to the EHD. This is a repeat violation (which is currently still open) from 2015.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-27-2016
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 10/20/2017. UST Facility Operating Permit Application and UST Tank Information are not current in CERS. Any change of information must be updated in CERS within 30 days of the changes. Missing or incorrect information includes, but may not be limited to: Piping construction Vapor recovery construction Fill components Corrosion protection Immediately log into CERS, update the required information, and submit for review by the EHD. This is a

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

repeat violation (which is currently still open) from 2015.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-31-2019
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have current UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 10/28/2020. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2021
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 11/22/2021. OBSERVATION: An approved copy of the response plan was not available for inspection. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. The response plan observed on site was for 2017. The response plan submitted on CERS was dated 9/25/2019. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-27-2016
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 03/01/2017. The designated operator failed to check and note the correct test dates for the monitoring system certification, spill bucket certification, and secondary containment testing on monthly reports January 2016-October 2016. Secondary containment test results were incorrectly logged as October 16, 2011 for the months January-October 2016. Monitoring system certification

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

and spill bucket certifications were listed as October 31, 2013 and October 31, 2012 for the months June, July, and August 2016. On the other reports corrections were noted in red. When asked Steven said he had made the corrections today (October 27, 2016). The alarm histories attached to January-April 2016 were printouts from today according to Steven. An alarm occurred April 27, 2016 for sensors L-2 and L-3. These alarms were not identified on the designated operator monthly report done on April 29, 2016. This report indicated there had not been any alarms, as did the reports conducted after this The [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes: Returned to compliance on 03/01/2017. An emergency coordinator and modified contingency plan information are lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form has been provided that can be used for this purpose.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 04/06/2018. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-27-2016
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Violation Notes:	Returned to compliance on 03/01/2017. An alarm was seen on the alarm history print out from April 27, 2016. The alarm was for the L-2 and L-3 sensors. There was no maintenance record or notation about this alarm on site. These records must be maintained for a minimum of 3 years. Immediately submit a maintenance record and/or a statement indicating what caused the alarms and what action was taken to correct them.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	23 CCR 16 2636(f)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(4)
Violation Description:	Failure to meet one or more of the following monitoring requirements in lieu of the requirement to be tightness tested every 12 months: The monitoring system maintains all product piping outside the dispenser to be fail-safe and shut down the pump when a leak is detected. The monitoring system shuts down the pump or stops flow when a leak is detected in the under dispenser containment (UDC).
Violation Notes:	Returned to compliance on 10/25/2018. The L5 Satellite #1 UDC sensor did not shut down the turbine when tested and did not meet the requirements for annual line tightness testing exemption. The service technician reprogrammed the monitoring panel for positive shutdown for the L5 sensor, which satisfies the annual line tightness testing requirement. Ensure that all leak detection equipment is properly programmed at all times. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2017
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the CUPA or special inspector.
Violation Notes:	Returned to compliance on 04/06/2018. An inspection was last done on October 27,2016 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by November 26,2016. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP

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Violation Date:	10-31-2019
Citation:	23 CCR 16 2665(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665(b)
Violation Description:	"Failure to submit a copy of the overfill prevention equipment inspection results on the Overfill Prevention Equipment Inspection Report Form to the UPA within 30 days after the inspection. "
Violation Notes:	Returned to compliance on 10/28/2020. Overfill prevention testing was performed on 10/8/2019 and a test report was not submitted to EHD. A copy of the test report must be submitted within 30 days of the tests. Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 03/01/2017. The designated operator failed to check and note the correct test dates for the monitoring system certification (noted as 10/31/13), spill bucket certification (noted as 10/31/12), and secondary containment testing (noted as 10/16/11) from December 2014 through February 2015, and April through September 2015 on the designated operator monthly inspection reports. During the monthly inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and document the dates they were done. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports. The designated operator did not attach an alarm history to the March 2015 designated operator monthly inspection reports (dated 3/26/15 and 3/30/15). During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

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Violation Notes:	Returned to compliance on 01/07/2021. Observation: The Business Owner/Operator Identification form was not submitted or complete. Failed to submit business activity and owner identification page for 2020 . Regulation Guidance: This information must be current and submitted as part of the business plan. Corrective action: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	The owner/operator has failed to comply with one or more of the following: to maintain a copy of the designated operator monthly inspections for the last 12 months and/or maintain a list of trained employees on-site or off-site at a readily available location, if approved by the CUPA.
Violation Notes:	Returned to compliance on 09/26/2017. The November 2014 and June 2015 designated operator monthly inspection reports were not found on site. The report found in the June 2015 position was dated both 6/1/15 and 7/30/15, and the attached alarm history was dated 7/1/15. Designated operator monthly inspection reports for the previous twelve months shall be retained on site. Locate and ensure that copies of the previous twelve months of designated operator monthly inspection reports are maintained on site. Submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-31-2019
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes:	Returned to compliance on 10/28/2020. The owner/operator failed to sign the designated inspection report under section VI. (owner/operator acknowledgment of compliance) within 48 hours of

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receiving the 10/28/19, 7/7/19, 5/15/19 and 4/18/19 designated operator monthly inspection report. During the monthly inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and document the dates they were done. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 03/01/2017. A black fifty-five gallon drum near the dispensers containing used absorbents was dated 3/1/15. Facilities who generate less than 1000 kg of hazardous waste per month and do not exceed 6000 kg of waste stored on site at any time may store waste on site up to 180 days. Immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2015
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment..
Violation Notes: Returned to compliance on 03/01/2017. A diesel filter at dispenser number five was leaking product onto the concrete creating a dark wet stain beside the dispenser. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately repair the leaking diesel filter, clean up all spills, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2018
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter

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	16, Section(s) 2712(i)
Violation Description:	Failure to retain a copy of the permit to operate at the facility.
Violation Notes:	Returned to compliance on 11/19/2018. A copy of the UST operating permit was not found on site. A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. Immediately obtain a copy of the permit and retain it on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 10/30/2019. The monitoring plan is not current and/or not approved by the EHD. -Under tank monitoring 'Automatic Tank Gauging' is selected, and the recordkeeping section includes ATG testing records. According to Mr. Richardson, the site is not using ATGs for leak monitoring. -No continuous monitoring was marked under pipe monitoring. Veeder-Root 208 sensors were observed in the STP sump and the fill sump. -The leak detector model is listed as LD2000. The model observed on site is a 99LD2000. -Joy Kachadorian is listed as the Second Person Having Responsibility; she is no longer with the company. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to comply with one or more of the following: provide training to facility employee(s) responsible for proper operation and maintenance every 12 months and/or train new employee(s) who are responsible for proper operation and maintenance within 30-days of hire and/or to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system.
Violation Notes:	Returned to compliance on 09/26/2017. The designated operator employee training was not performed in 2015. The last date of training was 3/19/2014. The designated operator shall train facility employees for which he or she is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facility s best management practices 2. Employee s role with regard to monitoring equipment as specified in the facility s monitoring plan 3. Employee s role with regard to spills and overfills as specified in the facility s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment alarms Ensure that employees have been trained by the designated operator, maintain the list on site, and submit a copy of the training records

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

	to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/07/2021. Observation: The Hazardous Materials Inventory forms for 2018, 2019 and 2020 were not completed. Regulation Guidance: This information must be current and submitted as part of the business plan. Corrective action: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes:	Returned to compliance on 02/23/2017. Manifest numbers 009925400JJK (5/23/13), 009925285JJK (10/28/13), 011290771JJK (05/01/14), and 013679756JJK (03/13/15) were not found at this facility. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifests or prepare and submit the required information to [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-31-2019
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

	Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 10/31/2019. Current financial responsibility documents were not found on site. A copy of current financial responsibility documents are required to be maintained on site. Immediately obtain a copy of the facility's financial responsibility documents and maintain a copy on site. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the CUPA or special inspector.
Violation Notes:	Returned to compliance on 03/01/2017. An inspection was done on October 30, 2014 and October 29, 2015 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by Nov 30, 2014 and December 3, 2015 . This information has not been received resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report. Immediately submit written responses for the above listed inspections.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description:	Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 09/26/2017. The monthly reports for January-April 2016 were completed today on site before I arrived. Accurate designated operator monthly inspection reports for the previous twelve months shall be retained on site. Immediately begin this practice. This is a repeat violation (which is currently still open) from 2015. Monthly reports noted on the 2015 EHD inspection report include November 2014 and June 2015. Copies were requested and have not been provided.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Violation Date:	10-29-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/07/2021. Observation: A training program was not submitted for 2020. Regulation Guidance: Training programs for all employees and annual training, including refresher courses, shall include familiarity with the facility's Emergency response plans and procedures in the event of a release or threatened release of a hazardous material. Training shall cover, but not limited to, all of the following: (A) Immediate notification contacts to the appropriate local emergency response personnel and to the unified program agency. (B) Procedures for the mitigation of a release or threatened release to minimize any potential harm or damage to persons, property, or the environment. (C) Evacuation plans and procedures, including immediate notice, for the business site. These training programs may take into consideration of each employee. Corrective action: Immediately prepare or update the facility's training program, log into the California Environmental Reporting System (CERS) at http://cers.cal
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2021
Citation:	23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description:	Failure to submit the Underground Storage Tank Statement of Understanding and Compliance Form.
Violation Notes:	Returned to compliance on 02/01/2022. OBSERVATION: The Underground Storage Tank Statement of Understanding and Compliance Form was found in CERS is outdated. REGULATION GUIDANCE: This form must be uploaded to the California Environmental Reporting System (CERS). CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov and upload the Underground Storage Tank Statement of Understanding and Compliance Form for this facility.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2018
Citation:	HSC 6.5 25123.3(h)(2) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(2)
Violation Description:	Failure to determine the status of any hazardous waste if a signed copy of the manifest isn t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isn t received within 60 days of the date the waste was accepted by the initial transporter.
Violation Notes:	Manifest number 018139946JJK (12/21/17) was not found on site. Manifest number 013679675JJK (10/7/16) was found on site without a

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

TSDF signed copy. Hazardous waste generators shall retain copies of all manifests for three years or until a copy signed off by the destination facility is received. The signed off copy shall be retained and made readily available for review for three years. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generator s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the miss

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2021
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes: Returned to compliance on 01/11/2022. OBSERVATION: An inspection was last done on 10/29/2020 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by 11/28/2020. This information has not been received resulting in a non-compliant status for this facility. REGULATION GUIDANCE: An operator that receives an inspection report shall have 30 days to implement the corrections specified in the inspection report and comply with permit conditions. The corrective action shall include all of the recommendations made in the report. The operator shall submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. CORRECTIVE ACTION: Ensure that a written response documenting corrective actions taken or proposed is submitted and all corrections implemented within 30 days of receiving an inspection report.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-29-2020
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to retain a copy of the permit to operate at the facility.
Violation Notes: Returned to compliance on 10/25/2021. OBSERVATION: A copy of the UST operating permit was not found on site. REGULATION GUIDANCE: A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. CORRECTIVE ACTION: Immediately obtain a copy of the permit and retain it on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2021
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 02/01/2022. OBSERVATION: Financial responsibility documents have not been submitted to the EHD. The most recent financial responsibility documents in CERS are dated 10/5/2020. Section B of the certification of Financial Responsibility list an incorrect amount for the State UST Funds coverage amount. REGULATION GUIDANCE: Current financial responsibility documents are required to be submitted annually and maintain a copy on site. CORRECTIVE ACTION: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the required documents, and maintain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes:	Returned to compliance on 03/01/2017. Maintenance and monitoring records for the last three years were not found on site. Monitoring system certification test results for 2013 and 2014 were not found onsite. Secondary containment test results for 2014 were not found onsite. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the last three years on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure to meet any of the following consolidated manifest requirements: 1) Legible receipts for each quantity of hazardous waste that is received from a generator, 2) The generator's information (name, address, identification number, contact person, telephone number of the generator, the signature of the generator or the

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

generator's representative), 3) Date of the shipment, 4) The manifest number, 5) The volume or quantity of each waste stream received, 6) The name, address, and identification number of the authorized facility to which the hazardous waste will be transported, 7) The transporter's information (name, address, and identification number, the driver's signature), 8) A statement, signed by the generator, certifying that the generator has established a program to reduce the volume or quantity and toxicity of the hazardous waste to the degree economically practicable. 9) The generator shall retain each receipt for at least three years.

Violation Notes: Returned to compliance on 03/01/2017. Copies of hazardous waste disposal records for the last three years were not found on site. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copy of all manifests and receipts for the last three years, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-28-2022
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes: OBSERVATION: The designated operator failed to check and note all required items on the visual inspection reports. The incorrect and missing information included the following from the inspection reports: D.O. report 12/6/21: Designated operator noted compliance issues that the owner/operator did not describe the follow up actions to correct noted compliance issues. REGULATION GUIDANCE: During the visual inspection, the designated operator shall check that all required testing and maintenance for the UST system have been completed and shall check all required items on the report. CORRECTIVE ACTION: Ensure that designated operators performing visual inspections at this facility are including all of the required information on the reports.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-28-2022
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to retain a copy of the permit to operate at the facility.
Violation Notes:	OBSERVATION: A current copy of the UST operating permit was not found on site. The most recent permit on site was dated 2020. REGULATION GUIDANCE: A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. CORRECTIVE ACTION: Immediately obtain a copy of the 2022 permit and retain it on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-31-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 04/06/2018. The site map was not complete, as part of the business plan. The site map is missing an evacuation staging are. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2021
Citation:	23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description:	Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes:	OBSERVATION: Monitoring records for the last three years were not found on site. The following test results are missing: -2019 Monitoring System Certification - 2019 Overfill Prevention Inspection - 2020 Monitoring System Certification - 2020 Secondary Containment Testing REGULATION GUIDANCE: These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. CORRECTIVE ACTION: Immediately locate and maintain all missing maintenance and monitoring

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

	records for the last three years on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Owner/operator make false statements, representation, or certification on an application, record, or other document.
Violation Notes:	Returned to compliance on 03/01/2017. During the inspection it was noted by the inspector several designated monthly inspection reports looked almost identical to one another. The writing was in red and all of the same fill in the blank areas and "corrections" were noted. The alarm histories that were attached did not have a date on the top of them. One of the reports from April should have had an alarm noted and did not. Instead it was noted there had not been any alarms for the previous month. When the designated operator, Steven Richardson was asked if he had completed the reports today (October 27, 2016) he said yes. He said the reports had been completed but are now missing. Immediately prepare a written statement and submit it to the EHD indicating how this practice will be prevented in the future and whats steps will be taken to ensure compliance.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2015
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 03/01/2017. A black fifty-five gallon drum located near the dispensers and containing used absorbents did not have the hazardous properties listed on the label. All hazardous waste containers shall be marked with the following information: - the words Hazardous Waste - name and address of generator - hazardous properties (ignitable, corrosive, reactive, toxic) - physical state (liquid, solid) - composition (contents) - accumulation start date Immediately label this container and ensure that all hazardous waste containers are marked with all the required information.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-29-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

	required content.
Violation Notes:	Returned to compliance on 01/07/2021. Observation: A site map was not completed or submitted as part of the business plan. The last map submittal did not show/address loading areas, internal roads, storm and sewer drains, evacuation staging area, emergency response equipment (spill control), emergency shutoff, and access/exit points. Regulation Guidance: A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as NA". Corrective action: Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-25-2017
Citation:	23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description:	Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 04/06/2018. The October 2016, November 2016, December 2016, January 2017, February 2017, March 2017 and April 2017 designated operator monthly inspection reports were not found on site. Designated operator monthly inspection reports for the previous twelve months shall be retained on site. Locate and ensure that copies of the previous twelve months of designated operator monthly inspection reports are maintained on site. Submit copies to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Violation Date:	10-27-2016
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 10/20/2017. The monitoring plan is not current and/or not approved by the EHD. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary changes, and submit for review by the EHD. Immediately provide a written statement to the EHD indicating what was done to correct this violation. This is a repeat violation (which is currently still open) from 2015.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS,
Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Violation Date: 10-29-2015
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 03/01/2017. A copy of the 2015 UST operating permit was not found on site. A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. Immediately obtain a copy of the permit and retain it on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Violation Date: 10-25-2017
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description: Failure to submit or update a plot plan.
Violation Notes: Returned to compliance on 03/26/2018. An accurate UST Monitoring Site Plan was not submitted. The annular sensor location was located in the incorrect space on the site map. A site plan must be submitted identifying the locations where monitoring will be performed. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/ and upload a copy of the UST Monitoring Site Plan.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: A checklist was provided to Steve Richardson at the time of the inspection. The report was completed on November 2, 2015 and will be mailed to the facility. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within thirty days of receiving the completed report. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. Waste generated at this facility: - Used fuel filters - Diesel contaminated absorbents - Diesel contaminated water - Oil/water separator waste Provided: - Return to [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2020
Violations Found: Yes

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Eval Type: Routine done by local agency
Eval Notes: An inspection report was provided to the facility operator on the day of inspection. The report was amended and replaces the initial report. *Voilation #208 modified and removed DO(designated operator) inspection dates. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the amended inspection report. Report in pending laser fiche folder.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection report was provided to the facility operator on the day of inspection. The report was amended by the EHD. The amended report replaces the initial report. Violations # 104 removed. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by December 21, 2019 . Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Return to Compliance Certification Form, Corrective action statement form, and a list of approve free CUPA classes.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The monitoring system certification was conducted on 10/29/2020, an inspection checklist was provided to the facility operator on the day of inspection. The EHD has written the complete report on 12/03/2020 which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 01/2/2021. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead. Documents provided: Return to compliance form, Corrective action form and a list

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

of approve CUPA free training classes.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 11/24/2021. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Return to Compliance Certification, Flyer for Free CUPA Classes, Inspection Report
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 24, 2017 . Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS. Reviewed monitoring plans, site map, DO reports, tank information, facility information and alarm history.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 24, 2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Return to Compliance Certification form, schedule of free CUPA classes
Eval Division: San Joaquin County Environmental Health

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 30, 2014. Consent to perform the inspection, take photos and collect samples was given by Mario Lopez representative of Ramos Oil on site. This facility s designated operator is Steven Richardson 8218604 (ICC expiration date: 8/29/2015. The service technician was Gabriel Garcia (ICC 5281582 expiration date: 7/30/2016), who had the following manufacturer s certifications: Veeder Root Lvl 2/3 expires 7/23/2016, VMI Catastrophic Testing Certification expires 5/12/2016. Secondary containment test as required by SB989 was last conducted on 12/16/2011, and will be due in December 2014. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 11/30/2017. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-25-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 24, 2018. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Return to Compliance Certification form, schedule of free CUPA classes
Eval Division: San Joaquin County Environmental Health
Eval Program: UST

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, immediately. This facility is OUT OF COMPLIANCE. The Return to Compliance must be submitted for the 2015 and the 2016 routine inspections.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-28-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by November 27, 2022. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($156). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: A checklist was provided to Steve Richardson at the time of the inspection. The report was completed on November 2, 2015 and will be mailed to the facility. Violation 109 has been removed. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting thirty days of receiving completed inspection report. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS. Provided: Return to [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS,

Enforcement Action:
Site ID: 60255

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Site Name:	RAMOS OIL-FRENCH CAMP
Site Address:	10842 S HARLAN RD
Site City:	FRENCH CAMP
Site Zip:	95231
Enf Action Date:	10-25-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Site Address:	10842 S HARLAN RD
Site City:	FRENCH CAMP
Site Zip:	95231
Enf Action Date:	10-27-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Site Address:	10842 S HARLAN RD
Site City:	FRENCH CAMP
Site Zip:	95231
Enf Action Date:	10-29-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	HW
Enf Action Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Site Address:	10842 S HARLAN RD
Site City:	FRENCH CAMP
Site Zip:	95231
Enf Action Date:	10-29-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Joaquin County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS,

Site ID:	60255
Site Name:	RAMOS OIL-FRENCH CAMP
Site Address:	10842 S HARLAN RD
Site City:	FRENCH CAMP
Site Zip:	95231
Enf Action Date:	10-30-2013

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Site Address: 10842 S HARLAN RD
Site City: FRENCH CAMP
Site Zip: 95231
Enf Action Date: 10-30-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS,

Site ID: 60255
Site Name: RAMOS OIL-FRENCH CAMP
Site Address: 10842 S HARLAN RD
Site City: FRENCH CAMP
Site Zip: 95231
Enf Action Date: 10-31-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 60255
Facility Name: RAMOS OIL-FRENCH CAMP
Env Int Type Code: HWG
Program ID: 10182151
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 37.858700
Longitude: -121.277200

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420,

Affiliation Type Desc: Document Preparer
Entity Name: Lauren Takos

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 401
Affiliation City:	WEST SACRAMENTO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95691
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	RAMOS OIL COMPANIES
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Ramos Oil Company
Entity Title:	Not reported
Affiliation Address:	PO BOX 401
Affiliation City:	WEST SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 825-1000,
Affiliation Type Desc:	Operator
Entity Name:	RAMOS OIL CO., INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 825-1000,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Joy Kachadorian
Entity Title:	EHS Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 825-1000,

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	BENETO FAMILY TRUST
Entity Title:	Not reported
Affiliation Address:	4080 SEAPORT BLVD
Affiliation City:	WEST SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 677-0817,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lauren Takos
Entity Title:	Not reported
Affiliation Address:	P.O. Box 401
Affiliation City:	West Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95691
Affiliation Phone:	,

Affiliation Type Desc:	UST Tank Owner
Entity Name:	BENETO FAMILY TRUST
Entity Title:	Not reported
Affiliation Address:	4080 SEAPORT BLVD
Affiliation City:	WEST SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 677-0817,

Affiliation Type Desc:	Identification Signer
Entity Name:	Lauren Takos
Entity Title:	EHS Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	RAMOS OIL COMPANY INC
Entity Title:	Not reported
Affiliation Address:	1515 S RIVER RD
Affiliation City:	W SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95691
Affiliation Phone:	(916) 371-2570,

Affiliation Type Desc:	Property Owner
Entity Name:	Ramos Oil Company
Entity Title:	Not reported
Affiliation Address:	P.O. Box 401
Affiliation City:	West Sacramento
Affiliation State:	CA
Affiliation Country:	United States

RAMOS OIL-FRENCH CAMP (Continued) **S121788905**

Affiliation Zip: 95691
Affiliation Phone: (916) 371-2570,

F37 **BYRON PETERS** **HIST UST** **U001605948**
NNW **235 BRIGGS AVE** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.244 mi.
1286 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**
Actual: **17 ft.**

HIST UST:
Name: BYRON PETERS
Address: 235 BRIGGS AVE
City,State,Zip: LATHROP, CA 95330
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000030284
Facility Type: Other
Other Type: FARM
Contact Name: Not reported
Telephone: 2099821447
Owner Name: BYRON PETERS
Owner Address: 235 W. BRIGGS AVE
Owner City,St,Zip: LATHROP, CA 95330
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1960
Tank Capacity: 00000300
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

F38 **GYRON PETERS** **HIST UST** **S118410829**
NNW **235 W BRIGGS AVE** **N/A**
1/8-1/4 **LATHROP, CA 95330**
0.244 mi.
1286 ft. **Site 2 of 2 in cluster F**

Relative: **Higher**
Actual: **17 ft.**

HIST UST:
Name: GYRON PETERS
Address: 235 W BRIGGS AVE
City,State,Zip: LATHROP, CA 95330
File Number: 0002fa10
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0002fa10.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported

GYRON PETERS (Continued) **S118410829**

Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

E39 **DEMAR TRANSPORTATION** **PFAS ECHO** **1027350644**
NE **37.858354/-121.280758** **N/A**
1/8-1/4 **FRENCH CAMP, CA**
0.244 mi.
1289 ft. **Site 2 of 2 in cluster E**

Relative: **Higher**
Actual: **18 ft.**

PFAS ECHO:

Name:	DEMAR TRANSPORTATION
Address:	37.858354/-121.280758
City,State,Zip:	FRENCH CAMP, CA
Latitude:	37.858354
Longitude:	-121.280758
Count:	-1
County:	SAN JOAQUIN
Status:	Active
Region:	09
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110043415596
Facility Percent Minority:	68.928
Facility Derived Tribes:	Not reported
Facility Population:	671.54
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-121.280758,%22y%22:37.858354,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	Not reported
Facility FIPS Code:	06077
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	18040002
Facility Derived WBD:	180400030205
Facility Derived CD113:	09
Facility Derived CB2010:	060770038031060
Facility Major Flag:	Not reported
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	Not reported
Facility Days Last Inspection:	Not reported
Facility Informal Count:	0
Facility Date Last Informal Action:	Not reported
Facility Formal Action Count:	0

DEMAR TRANSPORTATION (Continued) **1027350644**

Facility Date Last Formal Action:	Not reported
Facility Total Penalties:	0
Facility Penalty Count:	Not reported
Facility Date Last Penalty:	Not reported
Facility Last Penalty AMT:	Not reported
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
RCRA IDS:	CAR000216838
RCRA Permit Types:	Transporter
RCRA NAICS:	562211 562112 562111 48422
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Compliance Status:	Not reported
SDWA SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI On Site Releases:	Not reported
TRI Off Site Transfers:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

40
East
1/4-1/2
0.399 mi.
2106 ft.

LATHROP QUINONES ARMED FORCES RESERVE CENTER (AFRC **ENVIROSTOR** **S107736597**
400 EAST ROTH ROAD **N/A**
LATHROP, CA 95330

Relative:
Higher

Actual:
21 ft.

ENVIROSTOR:

Name:	LATHROP QUINONES ARMED FORCES RESERVE CENTER (AFRC)
Address:	400 EAST ROTH ROAD
City,State,Zip:	LATHROP, CA 95330
Facility ID:	71000048
Status:	No Further Action
Status Date:	12/19/2001
Site Code:	101044
Site Type:	Military Evaluation
Site Type Detailed:	Open Base
Acres:	4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported

LATHROP QUINONES ARMED FORCES RESERVE CENTER (AFRC) (Continued) **S107736597**

Supervisor: Charles Ridenour
Division Branch: Cleanup Sacramento
Assembly: 12
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 37.85444
Longitude: -121.2735
APN: NONE SPECIFIED
Past Use: VEHICLE MAINTENANCE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: SOIL
Alias Name: T0607754271
Alias Type: GeoTracker Global ID
Alias Name: 101044
Alias Type: Project Code (Site Code)
Alias Name: 71000048
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Site Inspection (SI) Report
Completed Date: 12/19/2001
Comments: DTSC signed No Further Action decision document on 12/21/2001.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: No Further Action Letter
Completed Date: 08/30/2001
Comments: SI Report and NFA Concurrence Letter, drafted by T Escarda, signed by AJ Landis 08/30/2001 for grease rack cleanup. Approximately 4 acres at Sharpe Army Depot.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

41
SSW
1/4-1/2
0.423 mi.
2232 ft.

4TH HIGH SCHOOL/WESTON RANCH
FRENCH CAMP ROAD/WOLFE ROAD
STOCKTON, CA 95206

ENVIROSTOR SCH **S104549147 N/A**

Relative:
Lower

Actual:
15 ft.

ENVIROSTOR:
Name: 4TH HIGH SCHOOL/WESTON RANCH
Address: FRENCH CAMP ROAD/WOLFE ROAD
City,State,Zip: STOCKTON, CA 95206
Facility ID: 39010002

4TH HIGH SCHOOL/WESTON RANCH (Continued) **S104549147**

Status: No Further Action
Status Date: 06/11/2001
Site Code: 104027
Site Type: School Investigation
Site Type Detailed: School
Acres: 50
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Juan Koponen
Division Branch: Northern California Schools & Santa Susana
Assembly: 12
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.8471
Longitude: -121.2903
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic DDD DDE
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: 4TH HIGH SCHOOL/WESTON RANCH
Alias Type: Alternate Name
Alias Name: MANTECA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: MANTECA USD- 4TH HI SCH/VCA
Alias Type: Alternate Name
Alias Name: MANTECA USD-4TH HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: 104018
Alias Type: Project Code (Site Code)
Alias Name: 104027
Alias Type: Project Code (Site Code)
Alias Name: 39010002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/02/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/11/2001
Comments: DTSC approved the Preliminary Endangerment Assessment (PEA). Based on the information presented in the PEA, neither an actual a potential release of hazardous material, nor the presence of naturally occurring hazardous material indicated a the site pose threat to human health or the environment under any land use. Therefore, DTSC concurred that no further environmental investigation or cleanup was required at this site, and approved the PEA.

4TH HIGH SCHOOL/WESTON RANCH (Continued) **S104549147**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/06/2000
Comments: Phase 1- Pursuant to an agreement between the Department of Toxic Substancs Control (DTSC) and the California Department of Education, DTSC's Site Mitigation Program completed a review of a Phase I Environmental Assessment and has determined that a Preliminary Endangerment Assessment is required. The PEA will be conducted under DTSC's oversight pursuant to agreements between DTSC and the pertinent school district. Any subsequent cleanup activities (if needed) after the PEA would be conducted pursuant to agreements between DTSC and the Manteca Unified School District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/23/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/22/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/15/2000
Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 00/01-132) with Manteca Unified School District to provide oversight for a Preliminary Endangerment Assessment for the proposed 4th High School Weston Ranch Site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: 4TH HIGH SCHOOL/WESTON RANCH
Address: FRENCH CAMP ROAD/WOLFE ROAD
City,State,Zip: STOCKTON, CA 95206
Facility ID: 39010002

4TH HIGH SCHOOL/WESTON RANCH (Continued) **S104549147**

Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	50
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Juan Koponen
Division Branch:	Northern California Schools & Santa Susana
Site Code:	104027
Assembly:	12
Senate:	05
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/11/2001
Restricted Use:	NO
Funding:	School District
Latitude:	37.8471
Longitude:	-121.2903
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic, DDD, DDE
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	4TH HIGH SCHOOL/WESTON RANCH
Alias Type:	Alternate Name
Alias Name:	MANTECA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	MANTECA USD- 4TH HI SCH/VCA
Alias Type:	Alternate Name
Alias Name:	MANTECA USD-4TH HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	104018
Alias Type:	Project Code (Site Code)
Alias Name:	104027
Alias Type:	Project Code (Site Code)
Alias Name:	39010002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/02/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/11/2001
Comments:	DTSC approved the Preliminary Endangerment Assessment (PEA). Based on the information presented in the PEA, neither an actual a potential release of hazardous material, nor the presence of naturally occurring hazardous material indicated a the site pose threat to human health or the environment under any land use. Therefore, DTSC concurred that no further environmental investigation or cleanup was

4TH HIGH SCHOOL/WESTON RANCH (Continued) **S104549147**

required at this site, and approved the PEA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/06/2000
Comments: Phase 1- Pursuant to an agreement between the Department of Toxic Substancs Control (DTSC) and the California Department of Education, DTSC's Site Mitigation Program completed a review of a Phase I Environmental Assessment and has determined that a Preliminary Endangerment Assessment is required. The PEA will be conducted under DTSC's oversight pursuant to agreements between DTSC and the pertinent school district. Any subsequent cleanup activities (if needed) after the PEA would be conducted pursuant to agreements between DTSC and the Manteca Unified School District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 01/23/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/22/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/15/2000
Comments: DTSC entered into an Environmental Oversight Agreement (Docket Number HSA-A 00/01-132) with Manteca Unified School District to provide oversight for a Preliminary Endangerment Assessment for the proposed 4th High School Weston Ranch Site.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

42 **GRANITE CONSTRUCTION COMPANY** **LUST** **S103621424**
NNE **10500 HARLAN** **Cortese** **N/A**
1/4-1/2 **FRENCH CAMP, CA 95231** **EMI**
0.485 mi. **HIST CORTESE**
2560 ft. **CERS**

Relative:
Higher

Actual:
18 ft.

LUST:

Name:	GRANITE CONSTRUCTION CO
Address:	10500 HARLAN RD S
City,State,Zip:	FRENCH CAMP, CA 95231
Lead Agency:	SAN JOAQUIN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700570
Global Id:	T0607700570
Latitude:	37.8616271
Longitude:	-121.279884
Status:	Completed - Case Closed
Status Date:	10/31/2006
Case Worker:	Not reported
RB Case Number:	390733
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	1993
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700570
Contact Type:	Regional Board Caseworker
Contact Name:	Alan Buehler
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607700570
Action Type:	Other
Date:	06/18/1992
Action:	Leak Discovery

Global Id:	T0607700570
Action Type:	Other
Date:	06/18/1992
Action:	Leak Reported

Global Id:	T0607700570
Action Type:	REMEDIATION
Date:	09/28/1993
Action:	Excavation

Global Id:	T0607700570
Action Type:	ENFORCEMENT
Date:	02/26/1993
Action:	Notice of Reimbursement

GRANITE CONSTRUCTION COMPANY (Continued) **S103621424**

LUST:

Global Id:	T0607700570
Status:	Open - Case Begin Date
Status Date:	06/18/1992
Global Id:	T0607700570
Status:	Open - Site Assessment
Status Date:	08/22/1996
Global Id:	T0607700570
Status:	Completed - Case Closed
Status Date:	10/31/2006

LUST REG 5:

Name:	GRANITE CONSTRUCTION CO
Address:	10500 HARLAN RD S
City:	FRENCH CAMP
Region:	5
Status:	Case Closed
Case Number:	390733
Case Type:	Drinking Water Aquifer affected
Substance:	GASOLINE
Staff Initials:	JLB
Lead Agency:	Local
Program:	LUST
MTBE Code:	0

CORTESE:

Name:	GRANITE CONSTRUCTION CO
Address:	10500 HARLAN RD S
City,State,Zip:	FRENCH CAMP, CA 95231
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700570
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

EMI:

GRANITE CONSTRUCTION COMPANY (Continued) **S103621424**

Name:	GRANITE CONSTRUCTION COMPANY
Address:	10500 HARLAN
City,State,Zip:	FRENCH CAMP, CA 952310000
Year:	1987
County Code:	39
Air Basin:	SJV
Facility ID:	56
Air District Name:	SJU
SIC Code:	2951
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	2

Name:	GRANITE CONSTRUCTION COMPANY
Address:	10500 HARLAN
City,State,Zip:	FRENCH CAMP, CA 952310000
Year:	1990
County Code:	39
Air Basin:	SJV
Facility ID:	56
Air District Name:	SJU
SIC Code:	2951
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	5
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	16
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3

Name:	GRANITE CONSTRUCTION COMPANY
Address:	10500 HARLAN
City,State,Zip:	FRENCH CAMP, CA 952310000
Year:	1993
County Code:	39
Air Basin:	SJV
Facility ID:	366
Air District Name:	SJU
SIC Code:	2951
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0

GRANITE CONSTRUCTION COMPANY (Continued) **S103621424**

Particulate Matter Tons/Yr: 9
Part. Matter 10 Micrometers and Smllr Tons/Yr: 4

Name: GRANITE CONSTRUCTION COMPANY
Address: 10500 HARLAN
City,State,Zip: FRENCH CAMP, CA 952310000
Year: 1995
County Code: 39
Air Basin: SJV
Facility ID: 366
Air District Name: SJU
SIC Code: 2951
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 4
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 3
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1

HIST CORTESE:
edr_fname: GRANITE CONSTRUCTION CO
edr_fadd1: 10500 HARLAN
City,State,Zip: FRENCH CAMP, CA 95231
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390733

CERS:
Name: GRANITE CONSTRUCTION CO
Address: 10500 HARLAN RD S
City,State,Zip: FRENCH CAMP, CA 95231
Site ID: 258965
CERS ID: T0607700570
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

43
East
1/2-1
0.784 mi.
4142 ft.

H & M TRANSPORT INC
707 E ROTH RD
FRENCH CAMP, CA 95231

ENVIROSTOR
HIST UST
NPDES
CIWQS
CERS

U001604057
N/A

Relative:
Higher

Actual:
22 ft.

ENVIROSTOR:

Name:	H & M TRANSPORT INC
Address:	707 E ROTH RD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility ID:	39420006
Status:	Refer: Other Agency
Status Date:	05/15/1995
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Sacramento
Assembly:	13
Senate:	05
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.85635
Longitude:	-121.2685
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* UNSPECIFIED ACID SOLUTION
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SL205433014
Alias Type:	GeoTracker Global ID
Alias Name:	39420006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	02/18/1987
Comments:	Site screening done. No cleanup documented. Pond is malodeous with dark oil-like ring. No vegetation near border.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	05/11/1982
Comments:	Facility identified from County Health list.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported

H & M TRANSPORT INC (Continued) **U001604057**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
Name: HANDM TRANSPORT INC
Address: 707 ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
File Number: 0002fce6
URL: https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0002fce6.pdf
Region: STATE
Facility ID: 00000038443
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2099820260
Owner Name: H.&M. TRANSPORT INC.
Owner Address: P.O. BOX H, 707 ROTH RD.
Owner City,St,Zip: FRENCH CAMP, CA 95231
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1980
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 10
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1980
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 10
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1980
Tank Capacity: 00008000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 10
Leak Detection: None

H & M TRANSPORT INC (Continued) **U001604057**

Click here for Geo Tracker PDF:

NPDES:

Name:	SYSTEM TRANSPORT
Address:	707 EAST ROTH ROAD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39I028553
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/03/2020
Operator Name:	System Transport Inc
Operator Address:	PO Box 3456
Operator City:	Spokane
Operator State:	Washington
Operator Zip:	99220

Name:	SYSTEM TRANSPORT
Address:	707 EAST ROTH ROAD
City,State,Zip:	FRENCH CAMP, CA 95231
Facility Status:	Active
NPDES Number:	CAS000001
Region:	5S
Agency Number:	0
Regulatory Measure ID:	513939
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	5S39I028553
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/03/2020
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	PO Box 3456
Discharge Name:	System Transport Inc
Discharge City:	Spokane
Discharge State:	Washington
Discharge Zip:	99220
Status:	Not reported
Status Date:	Not reported

H & M TRANSPORT INC (Continued) **U001604057**

Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

CIWQS:

Name:	SYSTEM TRANSPORT
Address:	707 EAST ROTH ROAD
City,State,Zip:	FRENCH CAMP, CA 95231
Agency:	System Transport Inc
Agency Address:	PO Box 3456, Spokane, WA 99220
Place/Project Type:	Industrial - Local Trucking Without Storage
SIC/NAICS:	4212
Region:	5S
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	5S39I028553
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/03/2020
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	37.85758
Longitude:	-121.26871

CERS:

Name:	SYSTEM TRANSPORT
Address:	707 EAST ROTH ROAD
City,State,Zip:	FRENCH CAMP, CA 95231
Site ID:	589678
CERS ID:	876640
CERS Description:	Industrial Facility Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	System Transport Inc
Entity Title:	Operator
Affiliation Address:	PO Box 3456
Affiliation City:	Spokane
Affiliation State:	WA
Affiliation Country:	Not reported
Affiliation Zip:	99220
Affiliation Phone:	,

44
South
1/2-1
0.807 mi.
4262 ft.

VERNER PARCELS C&D
HARLAN ROAD AND SQUIRES ROAD
LATHROP, CA 95330

ENVIROSTOR
DEED

S117038651
N/A

Relative:
Higher

Actual:
17 ft.

ENVIROSTOR:

Name:	VERNER PARCELS C&D
Address:	HARLAN ROAD AND SQUIRES ROAD
City,State,Zip:	LATHROP, CA 95330
Facility ID:	39000002
Status:	Haz Waste Disp Land Use (not BZP / HWP)
Status Date:	04/24/2000
Site Code:	Not reported
Site Type:	Border Zone / Haz Waste Evaluation
Site Type Detailed:	Border Zone / Haz Waste Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Dominique Forrester
Division Branch:	Cleanup Legacy Landfills
Assembly:	12
Senate:	05
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	37.84111
Longitude:	-121.2844
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	Arsenic
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	COUNTRY SQUIRES
Alias Type:	Alternate Name
Alias Name:	SOUTHERN PACIFIC C&D
Alias Type:	Alternate Name
Alias Name:	VERNER PARCELS C AND D
Alias Type:	Alternate Name
Alias Name:	Not reported
Alias Type:	Project Code (Site Code)
Alias Name:	39000002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	02/15/1990
Comments:	DEED RESTRICTION: A voluntary deed restriction is in place. This property went through the Hazardous Waste/Border Zone Property process, but was not formally designated as either a hazardous waste property or border zone property.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

VERNER PARCELS C&D (Continued) **S117038651**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Name: VERNER PARCELS C&D
Address: HARLAN ROAD AND SQUIRES ROAD
City,State,Zip: LATHROP, CA 95330
Envirostor ID: 39000002
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: BORDER ZONE / HAZ WASTE EVALUATION
Status: HAZ WASTE DISP LAND USE (NOT BZP / HWP)
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

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45 **AGRI-FEEDS INC** **ENVIROSTOR** **S100190065**
East **755 E ROTH RD** **N/A**
1/2-1 **FRENCH CAMP, CA 95231**
0.837 mi.
4422 ft.

Relative: **Higher**

Actual: **22 ft.**

ENVIROSTOR:
Name: AGRI-FEEDS INC
Address: 755 E ROTH RD
City,State,Zip: FRENCH CAMP, CA 95231
Facility ID: 39200017
Status: Refer: RWQCB
Status Date: 11/15/1982
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Sacramento
Assembly: 13
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.85747
Longitude: -121.2674
APN: 19332012
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED

AGRI-FEEDS INC (Continued) **S100190065**

Alias Name: 19332012
Alias Type: APN
Alias Name: 39200017
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 07/17/1982
Comments: FACILITY IDENTIFIED FROM RWQCB.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 6 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FRENCH CAMP	S106230431	UNION PACIFIC RAILROAD - FRENCH CA	HARLAN RD		CPS-SLIC
FRENCH CAMP	S105960402	SOUTHERN PACIFIC TRANSPORTATION CO	HARLAN ROAD	95231	CA BOND EXP. PLAN
FRENCH CAMP	1003878767	SO PACIFIC RR	HARLAN RD	95231	SEMS-ARCHIVE
FRENCH CAMP	S123592894	UNION PACIFIC LATHROP INTERMODAL F	1000 EAST ROTH ROAD	95231	CPS-SLIC, HAZNET, HWTS
LATHROP	S106230396	DEFENSE DISTRIBUTION REGION WEST (	724 ACRES AT ROTH RD		CPS-SLIC
LATHROP	S126984273	SHARPE ARMY DEPOT	850 E. ROTH RD. T1S,R6E SECS 1	95330	SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 25

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 08/25/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/02/2022
Date Data Arrived at EDR: 11/08/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/21/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 12/19/2022
Number of Days to Update: 5

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/03/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/07/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/23/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/19/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/14/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/23/2022
Date Data Arrived at EDR: 12/06/2022
Date Made Active in Reports: 03/03/2023
Number of Days to Update: 87

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/14/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/07/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/07/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 83

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 8

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/24/2022
Date Data Arrived at EDR: 10/24/2022
Date Made Active in Reports: 01/12/2023
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/05/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/11/2023
Number of Days to Update: 5
Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 8
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 78
Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/06/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/11/2023
Number of Days to Update: 5
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 08/24/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 76

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 08/02/2022
Date Data Arrived at EDR: 10/17/2022
Date Made Active in Reports: 01/04/2023
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/21/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/01/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 91

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/20/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/12/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/16/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/18/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/18/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 14

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 13

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/03/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/27/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/13/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2023
Date Data Arrived at EDR: 02/02/2023
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 11/17/2022
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/22/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/13/2022
Date Data Arrived at EDR: 09/14/2022
Date Made Active in Reports: 12/05/2022
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/01/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 60

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/22/2022
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 91

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 123

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/23/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 222

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/23/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/06/2022
Date Data Arrived at EDR: 09/06/2022
Date Made Active in Reports: 10/26/2022
Number of Days to Update: 50

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/14/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/07/2023
Number of Days to Update: 83

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/10/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/14/2022
Date Data Arrived at EDR: 11/14/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 01/24/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2022
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 02/14/2023
Number of Days to Update: 76

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/15/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/18/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/12/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/08/2022
Date Data Arrived at EDR: 11/23/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Varies

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 83

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/10/2022
Date Data Arrived at EDR: 11/10/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/14/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/04/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/31/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/14/2023
Number of Days to Update: 77
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/03/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/07/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/14/2023
Number of Days to Update: 77
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2022
Date Data Arrived at EDR: 12/07/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/22/2023
Number of Days to Update: 82
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/13/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/23/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/05/2023
Date Data Arrived at EDR: 01/06/2023
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 4

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/02/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/21/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/03/2023
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 09/28/2022
Date Data Arrived at EDR: 09/29/2022
Date Made Active in Reports: 12/14/2022
Number of Days to Update: 76

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 5

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/13/2022
Date Data Arrived at EDR: 12/15/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 6

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2022
Date Data Arrived at EDR: 10/21/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/29/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/05/2022
Date Made Active in Reports: 12/16/2022
Number of Days to Update: 72

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/05/2022
Date Made Active in Reports: 12/16/2022
Number of Days to Update: 72

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 79

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/03/2022
Date Data Arrived at EDR: 10/04/2022
Date Made Active in Reports: 12/15/2022
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/10/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 11/01/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/07/2023
Number of Days to Update: 83

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 11/01/2022
Date Data Arrived at EDR: 12/14/2022
Date Made Active in Reports: 03/07/2023
Number of Days to Update: 83

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/14/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/05/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/18/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/03/2023
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 10/27/2022
Date Made Active in Reports: 01/18/2023
Number of Days to Update: 83

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 10/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/24/2022
Date Data Arrived at EDR: 08/01/2022
Date Made Active in Reports: 10/20/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 01/31/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/26/2022
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 78

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/13/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/22/2022
Date Data Arrived at EDR: 09/26/2022
Date Made Active in Reports: 12/09/2022
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/22/2022
Date Data Arrived at EDR: 09/26/2022
Date Made Active in Reports: 12/09/2022
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/21/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/09/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/27/2022
Date Data Arrived at EDR: 10/28/2022
Date Made Active in Reports: 01/18/2023
Number of Days to Update: 82

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/18/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/30/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 11/29/2022
Date Made Active in Reports: 02/14/2023
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 02/28/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/25/2023
Number of Days to Update: 79

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/03/2022
Date Data Arrived at EDR: 11/07/2022
Date Made Active in Reports: 01/24/2023
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/14/2022
Date Made Active in Reports: 01/04/2023
Number of Days to Update: 82

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/06/2022
Next Scheduled EDR Contact: 03/27/2023
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/08/2022
Date Data Arrived at EDR: 11/09/2022
Date Made Active in Reports: 02/01/2023
Number of Days to Update: 84

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2022
Next Scheduled EDR Contact: 03/20/2023
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/02/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 10/28/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Reports: 01/20/2023
Number of Days to Update: 80
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/15/2023
Next Scheduled EDR Contact: 06/05/2023
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/09/2023
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/13/2022
Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/09/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/25/2022
Date Made Active in Reports: 11/14/2022
Number of Days to Update: 81

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/23/2023
Next Scheduled EDR Contact: 06/12/2023
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 11/17/2022
Date Data Arrived at EDR: 11/21/2022
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 81

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/11/2022
Date Data Arrived at EDR: 10/12/2022
Date Made Active in Reports: 12/29/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/15/2023
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/13/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/02/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2022
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/17/2023
Next Scheduled EDR Contact: 05/01/2023
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/28/2022
Date Data Arrived at EDR: 12/02/2022
Date Made Active in Reports: 02/23/2023
Number of Days to Update: 83

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/07/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/21/2022
Date Data Arrived at EDR: 09/30/2022
Date Made Active in Reports: 12/14/2022
Number of Days to Update: 75

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/19/2022
Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/25/2022
Date Data Arrived at EDR: 10/26/2022
Date Made Active in Reports: 10/31/2022
Number of Days to Update: 5

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/20/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/16/2022
Date Made Active in Reports: 02/06/2023
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/10/2023
Next Scheduled EDR Contact: 05/22/2023
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/28/2022
Next Scheduled EDR Contact: 04/17/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/27/2023
Next Scheduled EDR Contact: 05/08/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/06/2023
Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/13/2022
Next Scheduled EDR Contact: 05/29/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/06/2023
Next Scheduled EDR Contact: 06/19/2023
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SINGH PETROLEUM AND BACAY PROPERTIES
11293 SOUTH MANTHEY ROAD AND 169 MANILA ROAD
LATHROP, CA 95330

TARGET PROPERTY COORDINATES

Latitude (North):	37.854802 - 37ˆ 51’ 17.29’’
Longitude (West):	121.285229 - 121ˆ 17’ 6.82’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	650858.1
UTM Y (Meters):	4190885.5
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12008720 LATHROP, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

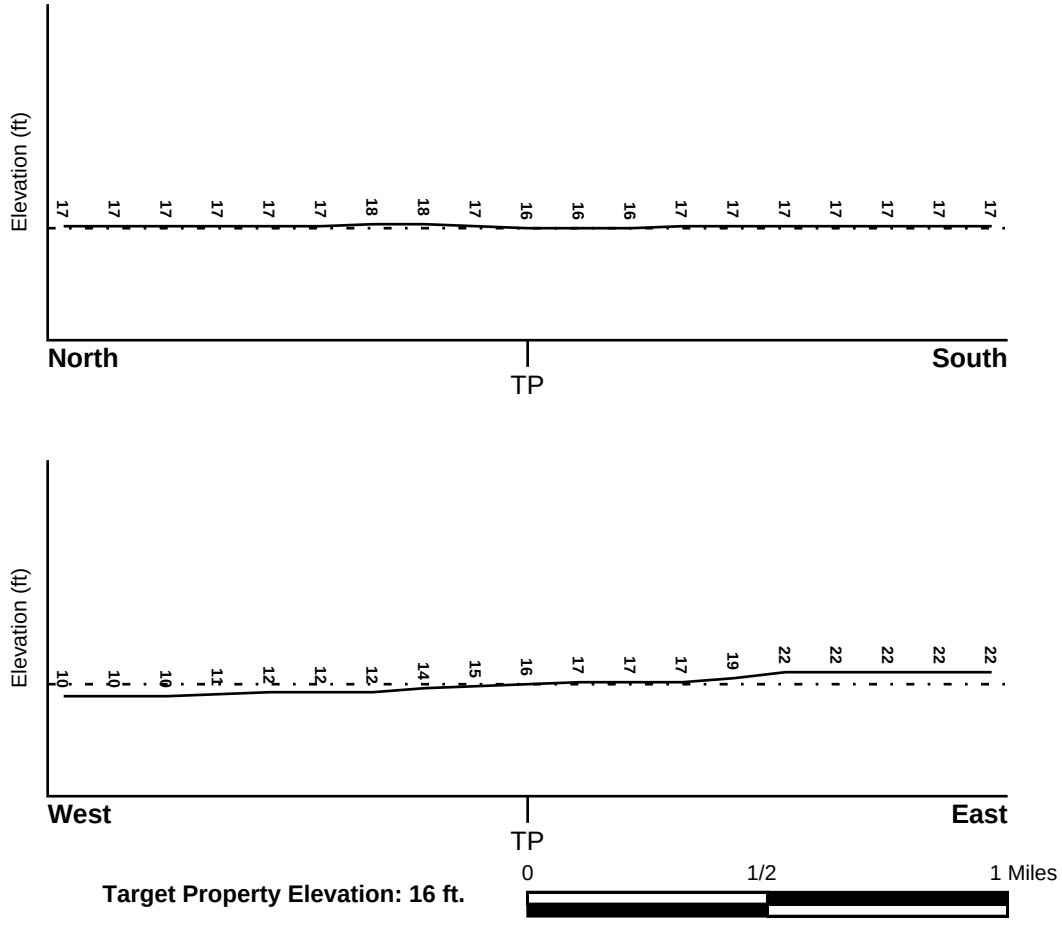
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 16 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06077C0610F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LATHROP	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

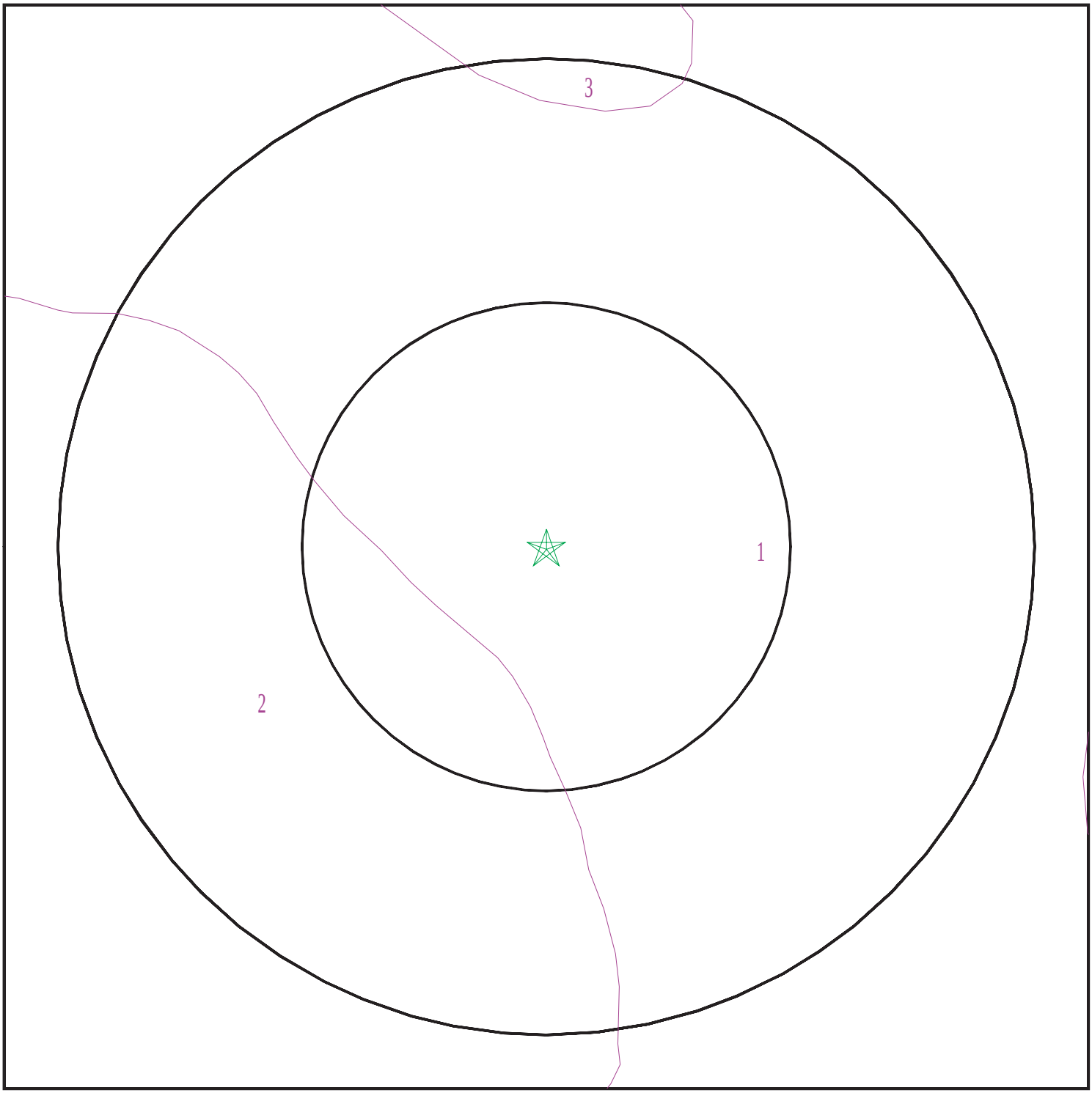
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7273084.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Singh Petroleum and Bacay Properties	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	11293 South Manthey Road and 169 Manila Road Lathrop CA 95330	CONTACT:	Linda Phillips
LAT/LONG:	37.854802 / 121.285229	INQUIRY #:	7273084.2s
		DATE:	March 08, 2023 3:42 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: VERITAS

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	14 inches	53 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	53 inches	70 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: MANTECA

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	11 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	24 inches	35 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
4	35 inches	53 inches	cemented	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
5	53 inches	74 inches	stratified loamy sand to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: HONCUT

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
2	20 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000185921	1/8 - 1/4 Mile ENE
C8	USGS40000185917	1/4 - 1/2 Mile SE
11	USGS40000185924	1/4 - 1/2 Mile NE
16	USGS40000185929	1/4 - 1/2 Mile NNE
I33	USGS40000185886	1/2 - 1 Mile South
M52	USGS40000185928	1/2 - 1 Mile ENE
N60	USGS40000185871	1/2 - 1 Mile South
P66	USGS40000185898	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR0000001204	1/8 - 1/4 Mile ESE
A3	CADPR0000002480	1/8 - 1/4 Mile East
B4	CADWR0000004634	1/8 - 1/4 Mile NNW
B5	CADWR0000034741	1/8 - 1/4 Mile NNW
6	1025	1/8 - 1/4 Mile East
C7	1024	1/4 - 1/2 Mile SE
9	CADWR9000037764	1/4 - 1/2 Mile SSE
10	CADWR0000025638	1/4 - 1/2 Mile SSW
12	CADDW0000000999	1/4 - 1/2 Mile ENE
13	CADWR0000025126	1/4 - 1/2 Mile WNW
D14	CADDW0000010837	1/4 - 1/2 Mile SE
D15	CADDW0000018025	1/4 - 1/2 Mile SE
17	CADWR0000025116	1/4 - 1/2 Mile SW
E18	CADWR0000004698	1/4 - 1/2 Mile NNW
E19	CADWR0000035411	1/4 - 1/2 Mile NNW
E20	CADWR0000034735	1/4 - 1/2 Mile NNW
21	CADWR0000004708	1/4 - 1/2 Mile NNE
22	CADPR0000002045	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

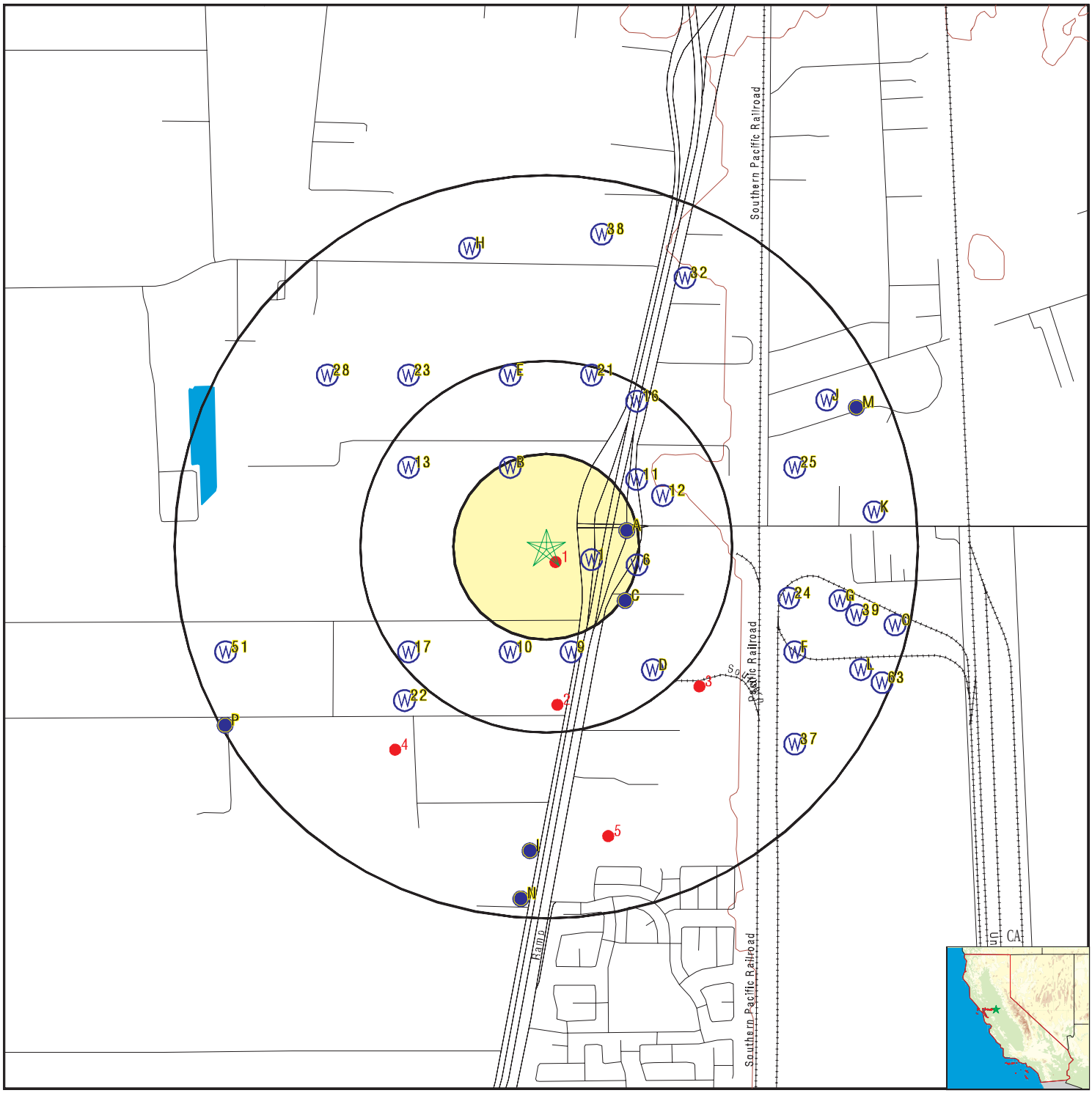
MAP ID	WELL ID	LOCATION FROM TP
23	CADWR0000020316	1/2 - 1 Mile NW
24	CADPR0000002341	1/2 - 1 Mile ESE
25	CADWR0000025676	1/2 - 1 Mile ENE
F26	CADWR0000011491	1/2 - 1 Mile ESE
F27	CADWR0000019084	1/2 - 1 Mile ESE
28	CADWR0000024244	1/2 - 1 Mile NW
G29	1019	1/2 - 1 Mile East
H30	CADWR9000037803	1/2 - 1 Mile NNW
H31	CADWR0000009424	1/2 - 1 Mile NNW
32	CADPR0000001412	1/2 - 1 Mile NNE
I34	CAUSGSN00012696	1/2 - 1 Mile South
J35	CADPR0000003466	1/2 - 1 Mile ENE
G36	CADDW0000010313	1/2 - 1 Mile East
37	CADWR0000020644	1/2 - 1 Mile SE
38	CADPR0000003016	1/2 - 1 Mile North
39	23224	1/2 - 1 Mile ESE
H40	CADWR9000037806	1/2 - 1 Mile NNW
H41	CADWR0000010031	1/2 - 1 Mile NNW
J42	1018	1/2 - 1 Mile ENE
K43	CADDW0000021335	1/2 - 1 Mile East
L44	1020	1/2 - 1 Mile ESE
K45	CADWR0000017904	1/2 - 1 Mile East
K46	CADWR9000037776	1/2 - 1 Mile East
L47	CADDW0000000470	1/2 - 1 Mile ESE
L48	CADDW0000004640	1/2 - 1 Mile ESE
L49	CADDW0000004494	1/2 - 1 Mile ESE
M50	CADDW0000015087	1/2 - 1 Mile ENE
51	CADWR0000002296	1/2 - 1 Mile WSW
N53	CADWR0000014787	1/2 - 1 Mile South
O54	1022	1/2 - 1 Mile ESE
N55	CADWR9000037732	1/2 - 1 Mile South
L56	CADDW0000021647	1/2 - 1 Mile ESE
L57	1021	1/2 - 1 Mile ESE
N58	CADWR0000017645	1/2 - 1 Mile South
N59	CADWR9000037731	1/2 - 1 Mile South
O61	CADDW0000011955	1/2 - 1 Mile ESE
N62	CAUSGSN00007708	1/2 - 1 Mile South
63	CADDW0000000489	1/2 - 1 Mile ESE
O64	1023	1/2 - 1 Mile ESE
O65	23223	1/2 - 1 Mile ESE
P67	CADWR9000037755	1/2 - 1 Mile WSW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG15000134189	0 - 1/8 Mile SSE
2	CAOG15000134186	1/4 - 1/2 Mile South
3	CAOG15000134187	1/2 - 1 Mile SE
4	CAOG15000134188	1/2 - 1 Mile SW
5	CAOG15000134185	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 7273084.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Singh Petroleum and Bacay Properties	CLIENT:	AdvancedGeo, Inc.
ADDRESS:	11293 South Manthey Road and 169 Manila Road Lathrop CA 95330	CONTACT:	Linda Phillips
LAT/LONG:	37.854802 / 121.285229	INQUIRY #:	7273084.2s
		DATE:	March 08, 2023 3:41 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
ESE
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR0000001204**

Well ID:	01S06E11Q080M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11Q080M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11Q080M&store_num=		
GeoTracker Data:	Not Reported		

A2
ENE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000185921**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E14B001M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19600601	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	135
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1960-06-01
Feet below surface:	28.50	Feet to sea level:	Not Reported
Note:	Not Reported		

A3
East
1/8 - 1/4 Mile
Higher

CA WELLS **CADPR0000002480**

Well ID:	79366	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	79366	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=79366&store_num=		
GeoTracker Data:	Not Reported		

B4
NNW
1/8 - 1/4 Mile
Higher

CA WELLS **CADWR0000004634**

Well ID:	01S06E11L003M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11L003M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11L003M&store_num=		

GeoTracker Data: Not Reported

B5
NNW **CA WELLS** **CADWR0000034741**
1/8 - 1/4 Mile
Higher

Well ID:	01S06E11L001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11L001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11L001M&store_num=		
GeoTracker Data:	Not Reported		

6
East **CA WELLS** **1025**
1/8 - 1/4 Mile
Higher

Seq:	1025	Prim sta c:	01S/06E-14B04 M
Frds no:	3901125001	County:	39
District:	69	User id:	39C
System no:	3901125	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375115.0	Longitude:	1211647.0
Precision:	3	Status:	AR
Comment 1:	11378 HARLAN LATHROP CA 95330	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3901125	System nam:	Harlan Neighborhood Well
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

C7
SE **CA WELLS** **1024**
1/4 - 1/2 Mile
Higher

Seq:	1024	Prim sta c:	01S/06E-14B03 M
Frds no:	3901118001	County:	39
District:	69	User id:	39C
System no:	3901118	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375110.0	Longitude:	1211649.0
Precision:	3	Status:	AR
Comment 1:	11550 S HARLAN RD LATHROP CA 95330	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3901118	System nam:	Lathrop Sands Trailer Court
Hqname:	Not Reported	Address:	Not Reported

City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

C8
SE **FED USGS** **USGS40000185917**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E14B003M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19661102	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	180
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-11-02
Feet below surface:	32.00	Feet to sea level:	Not Reported
Note:	Not Reported		

9
SSE **CA WELLS** **CADWR9000037764**
1/4 - 1/2 Mile
Higher

State Well #:	01S06E14F001M	Station ID:	3209
Well Name:	01S06E14F001	Basin Name:	Eastern San Joaquin
Well Use:	Irrigation	Well Type:	Single Well
Well Depth:	0	Well Completion Rpt #:	Not Reported

10
SSW **CA WELLS** **CADWR0000025638**
1/4 - 1/2 Mile
Higher

Well ID:	01S06E14C080M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E14C080M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E14C080M&store_num=		
GeoTracker Data:	Not Reported		

11
NE **FED USGS** **USGS40000185924**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	001S006E11Q001M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19660426	Well Depth:	137
Well Depth Units:	ft	Well Hole Depth:	137
Well Hole Depth Units:	ft		

12
ENE **CA WELLS** **CADDW0000000999**
1/4 - 1/2 Mile
Higher

Well ID:	3901396-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901396-001&store_num=		
GeoTracker Data:	Not Reported		

13
WNW **CA WELLS** **CADWR0000025126**
1/4 - 1/2 Mile
Lower

Well ID:	01S06E11M001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11M001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11M001M&store_num=		
GeoTracker Data:	Not Reported		

D14
SE **CA WELLS** **CADDW0000010837**
1/4 - 1/2 Mile
Higher

Well ID:	3900818-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3900818-001&store_num=		
GeoTracker Data:	Not Reported		

D15
SE **CA WELLS** **CADDW0000018025**
1/4 - 1/2 Mile
Higher

Well ID:	3901118-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 - INACTIVE	GAMA PFAS Testing:	Not Reported

Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901118-001&store_num=
GeoTracker Data: Not Reported

16
NNE **FED USGS** **USGS40000185929**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E11K001M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19670826	Well Depth:	184
Well Depth Units:	ft	Well Hole Depth:	184
Well Hole Depth Units:	ft		

17
SW **CA WELLS** **CADWR0000025116**
1/4 - 1/2 Mile
Lower

Well ID:	01S06E14D001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E14D001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E14D001M&store_num=		
GeoTracker Data:	Not Reported		

E18
NNW **CA WELLS** **CADWR0000004698**
1/4 - 1/2 Mile
Higher

Well ID:	01S06E11F002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11F002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11F002M&store_num=		
GeoTracker Data:	Not Reported		

E19
NNW **CA WELLS** **CADWR0000035411**
1/4 - 1/2 Mile
Higher

Well ID:	01S06E11F003M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11F003M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11F003M&store_num=		

GeoTracker Data: Not Reported

E20
NNW **CA WELLS** **CADWR0000034735**
1/4 - 1/2 Mile
Higher

Well ID: 01S06E11F001M Well Type: UNK
Source: Department of Water Resources
Other Name: 01S06E11F001M GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11F001M&store_num=
GeoTracker Data: Not Reported

21
NNE **CA WELLS** **CADWR0000004708**
1/4 - 1/2 Mile
Higher

Well ID: 01S06E11G001M Well Type: UNK
Source: Department of Water Resources
Other Name: 01S06E11G001M GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11G001M&store_num=
GeoTracker Data: Not Reported

22
SW **CA WELLS** **CADPR0000002045**
1/2 - 1 Mile
Higher

Well ID: 108466 Well Type: UNK
Source: Department of Pesticide Regulation
Other Name: 108466 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=108466&store_num=
GeoTracker Data: Not Reported

23
NW **CA WELLS** **CADWR0000020316**
1/2 - 1 Mile
Higher

Well ID: 01S06E11E002M Well Type: UNK
Source: Department of Water Resources
Other Name: 01S06E11E002M GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11E002M&store_num=
GeoTracker Data: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

24
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000002341**

Well ID:	79363	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	79363	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=79363&store_num=		
GeoTracker Data:	Not Reported		

25
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000025676**

Well ID:	01S06E12M001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E12M001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E12M001M&store_num=		
GeoTracker Data:	Not Reported		

F26
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000011491**

Well ID:	01S06E13D001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E13D001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E13D001M&store_num=		
GeoTracker Data:	Not Reported		

F27
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000019084**

Well ID:	01S06E13D002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E13D002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E13D002M&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

28
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024244**

Well ID:	01S06E10H001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E10H001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E10H001M&store_num=		
GeoTracker Data:	Not Reported		

G29
East
1/2 - 1 Mile
Higher

CA WELLS **1019**

Seq:	1019	Prim sta c:	01S/06E-13D02 M
Frds no:	3910701004	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 04 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375110.0	Longitude:	1211613.0
Precision:	3	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		

H30
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037803**

State Well #:	01S06E11E001M	Station ID:	3207
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	185	Well Completion Rpt #:	Not Reported

H31
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000009424**

Well ID:	01S06E11E001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11E001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11E001M&store_num=		

GeoTracker Data: Not Reported

32
NNE **CA WELLS** **CADPR0000001412**
1/2 - 1 Mile
Higher

Well ID:	79338	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	79338	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=79338&store_num=		
GeoTracker Data:	Not Reported		

I33
South **FED USGS** **USGS40000185886**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E14P001M	Type:	Well
Description:	Not Reported	HUC:	18040003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Alluvial Fan Deposits	Aquifer Type:	Not Reported
Construction Date:	19740718	Well Depth:	233
Well Depth Units:	ft	Well Hole Depth:	233
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1974-07-18
Feet below surface:	40.00	Feet to sea level:	Not Reported
Note:	Not Reported		

I34
South **CA WELLS** **CAUSGSN00012696**
1/2 - 1 Mile
Higher

Well ID:	USGS-375035121170601	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-375035121170601	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-375035121170601&store_num=		
GeoTracker Data:	Not Reported		

J35
ENE **CA WELLS** **CADPR0000003466**
1/2 - 1 Mile
Higher

Well ID:	79341	Well Type:	UNK
Source:	Department of Pesticide Regulation		

Other Name:	79341	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=79341&store_num=		
GeoTracker Data:	Not Reported		

G36
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000010313**

Well ID:	3910701-004	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 04 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910701-004&store_num=		
GeoTracker Data:	Not Reported		

37
SE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000020644**

Well ID:	01S06E13E001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E13E001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E13E001M&store_num=		
GeoTracker Data:	Not Reported		

38
North
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000003016**

Well ID:	79337	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	79337	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=79337&store_num=		
GeoTracker Data:	Not Reported		

39
ESE
1/2 - 1 Mile
Higher

CA WELLS **23224**

Seq:	23224	Prim sta c:	J39/701-TREATED
Frds no:	3910701006	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	COMBINED - TREATED	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375108.0	Longitude:	1211608.0
Precision:	4	Status:	CT
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		
Sample date:	27-MAR-18	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-MAR-18	Finding:	6.16
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-MAR-18	Finding:	5.89
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAR-18	Finding:	5.22
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-FEB-18	Finding:	5.33
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-FEB-18	Finding:	5.14
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-FEB-18	Finding:	5.43
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-FEB-18	Finding:	5.48
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-JAN-18	Finding:	5.02
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JAN-18	Finding:	5.28
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JAN-18	Finding:	5.44
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JAN-18	Finding:	5.15
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JAN-18	Finding:	5.28
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	26-DEC-17	Finding:	4.97
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-DEC-17	Finding:	4.95
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-DEC-17	Finding:	5.08
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-DEC-17	Finding:	4.72
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-NOV-17	Finding:	4.58
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-NOV-17	Finding:	5.15
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-NOV-17	Finding:	4.84
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-NOV-17	Finding:	4.87
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-OCT-17	Finding:	4.68
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-OCT-17	Finding:	5.22
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-OCT-17	Finding:	4.96
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-OCT-17	Finding:	4.53
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-OCT-17	Finding:	4.77
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-SEP-17	Finding:	4.34
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-SEP-17	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-SEP-17	Finding:	5.43
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	05-SEP-17	Finding:	4.52
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-AUG-17	Finding:	4.38
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-AUG-17	Finding:	4.86
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-AUG-17	Finding:	4.52
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-17	Finding:	4.55
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-AUG-17	Finding:	4.34
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-17	Finding:	4.18
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-17	Finding:	3.98
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUL-17	Finding:	4.86
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JUL-17	Finding:	4.33
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-JUN-17	Finding:	3.83
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-JUN-17	Finding:	4.15
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-JUN-17	Finding:	4.17
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JUN-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-MAY-17	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	23-MAY-17	Finding:	4.14
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-MAY-17	Finding:	3.79
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-MAY-17	Finding:	4.51
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-MAY-17	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-APR-17	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-APR-17	Finding:	3.81
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-APR-17	Finding:	3.52
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-APR-17	Finding:	3.92
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-MAR-17	Finding:	3.76
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-MAR-17	Finding:	3.57
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-MAR-17	Finding:	3.37
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-MAR-17	Finding:	3.57
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-FEB-17	Finding:	3.85
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-FEB-17	Finding:	3.55
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-FEB-17	Finding:	3.59
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-17	Finding:	3.44
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	31-JAN-17	Finding:	3.43
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-JAN-17	Finding:	3.86
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-JAN-17	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JAN-17	Finding:	3.51
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JAN-17	Finding:	3.36
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-DEC-16	Finding:	3.37
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-DEC-16	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-DEC-16	Finding:	3.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-DEC-16	Finding:	2.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-NOV-16	Finding:	3.27
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-NOV-16	Finding:	3.07
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-NOV-16	Finding:	3.79
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-NOV-16	Finding:	3.24
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-NOV-16	Finding:	3.29
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-OCT-16	Finding:	3.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	18-OCT-16	Finding:	3.28
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-OCT-16	Finding:	3.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-OCT-16	Finding:	3.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-SEP-16	Finding:	3.14
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-SEP-16	Finding:	3.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-SEP-16	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-16	Finding:	2.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-AUG-16	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-AUG-16	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-AUG-16	Finding:	2.71
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-AUG-16	Finding:	2.71
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-16	Finding:	2.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-JUL-16	Finding:	2.68
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-JUL-16	Finding:	2.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-JUL-16	Finding:	2.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-JUN-16	Finding:	2.7
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	21-JUN-16	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-JUN-16	Finding:	2.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JUN-16	Finding:	2.58
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-MAY-16	Finding:	2.58
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-MAY-16	Finding:	2.39
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-MAY-16	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-MAY-16	Finding:	2.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-MAY-16	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-APR-16	Finding:	2.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-APR-16	Finding:	2.47
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-APR-16	Finding:	2.68
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-APR-16	Finding:	2.39
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-MAR-16	Finding:	2.14
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-MAR-16	Finding:	2.44
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-MAR-16	Finding:	2.24
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	08-MAR-16	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-MAR-16	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-FEB-16	Finding:	2.22
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-FEB-16	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-FEB-16	Finding:	2.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-SEP-15	Finding:	2.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-SEP-15	Finding:	2.05
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-15	Finding:	11.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	53.4
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	5.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	17.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	31.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-FEB-15	Finding:	23.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	129.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	280.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	6.1
Chemical:	VANADIUM	Report units:	UG/L

Dlr:	3.		
Sample date:	03-FEB-15	Finding:	365.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	3350.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-15	Finding:	43.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	249.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	204.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	531.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	478.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	8.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	50.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	4.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	22.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	05-AUG-14	Finding:	2890.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-14	Finding:	24.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-AUG-14	Finding:	51.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	103.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	258.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	366.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	163.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	7.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	0.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-AUG-14	Finding:	199.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	3580.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAY-14	Finding:	364.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	52.2
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-MAY-14	Finding:	23.2
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	06-MAY-14	Finding:	18.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	61.5
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	11.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	43.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	257.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	211.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	7.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	565.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	5.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	306.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	101.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	04-FEB-14	Finding:	49.5
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-14	Finding:	24.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	04-FEB-14	Finding:	21.7
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	4.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	51.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	9.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	36.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	182.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	149.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	469.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	238.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	15-OCT-13	Finding:	8.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-OCT-13	Finding:	8.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-13	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-SEP-13	Finding:	8.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-SEP-13	Finding:	8.4
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	10-SEP-13	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-AUG-13	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-AUG-13	Finding:	7.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-AUG-13	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	4.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	3190.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-AUG-13	Finding:	0.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	308.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	230.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	102.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	50.1
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-AUG-13	Finding:	24.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	455.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	06-AUG-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	162.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	195.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	9.e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	8.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	51.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	23.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	30-JUL-13	Finding:	7.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JUL-13	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JUL-13	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JUL-13	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUN-13	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUN-13	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	11-JUN-13	Finding:	7.01
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-JUN-13	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-MAY-13	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-MAY-13	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-MAY-13	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	573.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	210.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	256.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	6.e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	42.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	11.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	60.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	4.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	07-MAY-13	Finding:	18.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	26.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-MAY-13	Finding:	52.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	124.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-MAY-13	Finding:	289.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-MAY-13	Finding:	556.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	30-APR-13	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-APR-13	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-APR-13	Finding:	2.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-APR-13	Finding:	3.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-APR-13	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-MAR-13	Finding:	3.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	12-MAR-13	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-FEB-13	Finding:	3.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-FEB-13	Finding:	2.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-FEB-13	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-FEB-13	Finding:	49.7
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	131.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	324.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	9.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-FEB-13	Finding:	326.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	0.31
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	3680.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-FEB-13	Finding:	26.1
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	19.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	5.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	60.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	05-FEB-13	Finding:	11.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	43.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	248.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	203.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	553.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	3.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-JAN-13	Finding:	2.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-JAN-13	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-JAN-13	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-JAN-13	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JAN-13	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-DEC-12	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-DEC-12	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-DEC-12	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	04-DEC-12	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-NOV-12	Finding:	3.81
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-NOV-12	Finding:	4.38
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-NOV-12	Finding:	3.66
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-NOV-12	Finding:	44.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	11.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	61.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	5.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	20.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	32.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-NOV-12	Finding:	53.6
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	3.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-NOV-12	Finding:	146.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-12	Finding:	354.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-12	Finding:	9.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		

Sample date:	06-NOV-12	Finding:	369.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	0.63
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	3380.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-NOV-12	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	216.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	584.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	30-OCT-12	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-OCT-12	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-OCT-12	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-SEP-12	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-SEP-12	Finding:	3.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-SEP-12	Finding:	2.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-AUG-12	Finding:	477.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	3190.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	07-AUG-12	Finding:	162.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	198.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	8.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	51.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	4.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	22.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	25.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-AUG-12	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-AUG-12	Finding:	48.6
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	242.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	367.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.28
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	07-AUG-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-MAY-12	Finding:	8.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-MAY-12	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-MAY-12	Finding:	7.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-APR-12	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-APR-12	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-MAR-12	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-MAR-12	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-MAR-12	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAR-12	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-FEB-12	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-FEB-12	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	14-FEB-12	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-12	Finding:	48.2
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-12	Finding:	256.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-FEB-12	Finding:	318.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.73
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	7.8
Chemical:	HYDROXIDE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-FEB-12	Finding:	3550.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-FEB-12	Finding:	538.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	196.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	211.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	13.8
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.13
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		

Sample date:	07-FEB-12	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	30.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	8.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	48.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	3.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	22.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	25.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	31-JAN-12	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-JAN-12	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-JAN-12	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JAN-12	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JAN-12	Finding:	5.99
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

H40
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037806**

State Well #:	01S06E11D001M	Station ID:	26746
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	285	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H41
NNW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000010031**

Well ID:	01S06E11D001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E11D001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E11D001M&store_num=		
GeoTracker Data:	Not Reported		

J42
ENE
1/2 - 1 Mile
Higher

CA WELLS **1018**

Seq:	1018	Prim sta c:	01S/06E-12M03 M
Frds no:	3901075001	County:	39
District:	69	User id:	39C
System no:	3901075	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375139.0	Longitude:	1211612.0
Precision:	3	Status:	AR
Comment 1:	483-495 FRISBEE FRENCH CAMP CA 95231		
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported
System no:	3901075	System nam:	Frisbee Apartments
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		
Sample date:	12-FEB-18	Finding:	0.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-FEB-18	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-FEB-17	Finding:	120.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	37.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	13-FEB-17	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-FEB-17	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	13-FEB-17	Finding:	3.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-FEB-17	Finding:	2.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	0.8
Chemical:	SODIUM ABSORPTION RATIO	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	9.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	3.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	5.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	24.8
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	50.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	40.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	93.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-FEB-17	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	13-FEB-17	Finding:	10.3
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	10.6
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-JAN-14	Finding:	120.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	33.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	29-JAN-14	Finding:	43.6
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	29-JAN-14	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-JAN-14	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	29-JAN-14	Finding:	4.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	29-JAN-14	Finding:	3.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	1.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	9.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	4.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	7.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	33.9
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	60.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	50.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	29-JAN-14	Finding:	114.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr: 0.

K43
East
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021335**

Well ID:	3901453-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901453-001&store_num=		
GeoTracker Data:	Not Reported		

L44
ESE
1/2 - 1 Mile
Higher

CA WELLS **1020**

Seq:	1020	Prim sta c:	01S/06E-13E01 M
Frds no:	3910701002	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 02 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375101.0	Longitude:	1211609.0
Precision:	3	Status:	IU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		

K45
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000017904**

Well ID:	01S06E12P001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E12P001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E12P001M&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K46
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037776**

State Well #:	01S06E12P001M	Station ID:	3208
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	205	Well Completion Rpt #:	Not Reported

L47
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000000470**

Well ID:	3901204-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901204-001&store_num=		
GeoTracker Data:	Not Reported		

L48
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000004640**

Well ID:	3901291-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901291-001&store_num=		
GeoTracker Data:	Not Reported		

L49
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000004494**

Well ID:	3900731-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL (INACTIVE)	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3900731-001&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M50
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000015087**

Well ID:	3901262-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL HOSEBIB - ABANDONED		
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901262-001&store_num=		
GeoTracker Data:	Not Reported		

51
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000002296**

Well ID:	01S06E15B001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E15B001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E15B001M&store_num=		
GeoTracker Data:	Not Reported		

M52
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000185928**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E12M002M	Type:	Well
Description:	Not Reported	HUC:	18040005
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19710618	Well Depth:	172
Well Depth Units:	ft	Well Hole Depth:	172
Well Hole Depth Units:	ft		

N53
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000014787**

Well ID:	01S06E23C002M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E23C002M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E23C002M&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O54
ESE
1/2 - 1 Mile
Higher

CA WELLS **1022**

Seq:	1022	Prim sta c:	01S/06E-13F02 M
Frds no:	3910701003	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375107.0	Longitude:	1211603.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		

Sample date:	25-JUL-17	Finding:	16.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	0.828
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	582.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	219.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	267.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	2.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	25-JUL-17	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	11.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	52.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	3.4e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	23.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-JUL-17	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-JUL-17	Finding:	118.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUL-17	Finding:	5.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	374.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	202.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	247.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	44.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	12.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	58.1
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	5.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	16.5
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	03-FEB-15	Finding:	32.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-FEB-15	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-FEB-15	Finding:	23.1
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-15	Finding:	119.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	300.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	350.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	3540.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-15	Finding:	535.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	2890.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-14	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	245.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	298.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	05-AUG-14	Finding:	0.1
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	48.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	13.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	64.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	5.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	25.9
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	55.7
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	140.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	365.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	1.05
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	30.5
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	05-AUG-14	Finding:	442.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	0.11
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	0.4
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	05-AUG-14	Finding:	623.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	562.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	208.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	253.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	1.2
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	42.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	11.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	60.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	5.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	17.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	25.9
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-MAY-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-MAY-14	Finding:	52.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		

Sample date:	06-MAY-14	Finding:	22.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAY-14	Finding:	295.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-MAY-14	Finding:	355.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	0.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	3770.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-FEB-14	Finding:	564.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	185.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	225.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.1
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	42.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	11.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	60.3
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	5.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	17.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	24.9
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	04-FEB-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-14	Finding:	52.1
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	113.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	04-FEB-14	Finding:	292.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	04-FEB-14	Finding:	344.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.15
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	3130.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-AUG-13	Finding:	591.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	51.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	06-AUG-13	Finding:	13.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	65.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	5.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	18.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	27.3
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	53.3
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	141.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	409.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	31.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	06-AUG-13	Finding:	395.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	0.42
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	3.e-002
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	30.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	07-MAY-13	Finding:	20.
Chemical:	NICKEL	Report units:	UG/L
Dlr:	10.		
Sample date:	07-MAY-13	Finding:	318.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-MAY-13	Finding:	126.
Chemical:	BARIUM	Report units:	UG/L

Dlr:	100.		
Sample date:	07-MAY-13	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	53.6
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-MAY-13	Finding:	26.5
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	17.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	4.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	59.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	9.e-002
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	252.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	206.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	569.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	07-MAY-13	Finding:	523.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	3900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-FEB-13	Finding:	0.26
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	363.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	328.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	125.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-FEB-13	Finding:	49.7
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-FEB-13	Finding:	28.3
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	17.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	5.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	57.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	10.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	05-FEB-13	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	247.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	202.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	556.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	4020.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-NOV-12	Finding:	574.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	204.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	42.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	11.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	60.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	5.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	06-NOV-12	Finding:	18.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	26.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-NOV-12	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-NOV-12	Finding:	53.3
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-NOV-12	Finding:	128.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-12	Finding:	320.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-12	Finding:	419.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	0.57
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	3500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-AUG-12	Finding:	368.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	336.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	129.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	52.8
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-AUG-12	Finding:	28.4
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	07-AUG-12	Finding:	17.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	5.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	61.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	12.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	45.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	271.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	222.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	594.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.55
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	2720.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-FEB-12	Finding:	0.84
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	385.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	07-FEB-12	Finding:	353.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-FEB-12	Finding:	116.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-FEB-12	Finding:	50.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	26.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	17.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	54.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	58.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	11.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	40.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.14
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	197.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	263.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	681.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N55
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037732**

State Well #:	01S06E23C002M	Station ID:	3212
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	203	Well Completion Rpt #:	Not Reported

L56
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000021647**

Well ID:	3910701-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910701-002&store_num=		
GeoTracker Data:	Not Reported		

L57
ESE
1/2 - 1 Mile
Higher

CA WELLS **1021**

Seq:	1021	Prim sta c:	01S/06E-13F01 M
Frds no:	3910701001	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375059.0	Longitude:	1211605.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		

Sample date:	13-AUG-13	Finding:	1.75
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	13-AUG-13	Finding:	1.46
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N58
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000017645**

Well ID:	01S06E23C003M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S06E23C003M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S06E23C003M&store_num=		
GeoTracker Data:	Not Reported		

N59
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037731**

State Well #:	01S06E23C003M	Station ID:	3213
Well Name:	01S06E23C003M	Basin Name:	Eastern San Joaquin
Well Use:	Residential	Well Type:	Single Well
Well Depth:	145	Well Completion Rpt #:	086055

N60
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000185871**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E23C003M	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

O61
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000011955**

Well ID:	3910701-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 03	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910701-003&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N62
South
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00007708**

Well ID:	USGS-375027121170701	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-375027121170701	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-375027121170701&store_num=		
GeoTracker Data:	Not Reported		

63
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000000489**

Well ID:	3910701-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910701-001&store_num=		
GeoTracker Data:	Not Reported		

O64
ESE
1/2 - 1 Mile
Higher

CA WELLS **1023**

Seq:	1023	Prim sta c:	01S/06E-13F03 M
Frds no:	3910701005	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 05	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375107.0	Longitude:	1211600.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		

Sample date:	25-JUL-17	Finding:	44.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	0.865
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JUL-17	Finding:	487.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	161.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	197.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.77
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-17	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	8.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	3.4e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	18.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	21.1
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-JUL-17	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-JUL-17	Finding:	23.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-17	Finding:	2.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	312.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	0.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	06-JUN-17	Finding:	23.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-OCT-16	Finding:	24.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-MAY-15	Finding:	24.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-15	Finding:	169.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	206.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	36.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	9.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	47.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	4.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	17.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	28.5
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-FEB-15	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	03-FEB-15	Finding:	22.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	23.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	03-FEB-15	Finding:	103.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	220.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-FEB-15	Finding:	305.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	9.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-FEB-15	Finding:	2110.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-FEB-15	Finding:	466.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-FEB-15	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	1.02
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	21.3
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	05-AUG-14	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	0.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-AUG-14	Finding:	2990.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-14	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	480.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	163.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	05-AUG-14	Finding:	199.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	0.14
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	110.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	32.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	7.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	50.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	4.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	20.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	22.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-AUG-14	Finding:	50.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	28.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-AUG-14	Finding:	116.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	257.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-MAY-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	06-MAY-14	Finding:	2710.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-MAY-14	Finding:	3.e-002
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	299.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	218.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-MAY-14	Finding:	28.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAY-14	Finding:	50.7
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-MAY-14	Finding:	24.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-MAY-14	Finding:	19.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	5.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	51.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	8.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	34.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	1.
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	207.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	06-MAY-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	144.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	176.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.17
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	305.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	215.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	04-FEB-14	Finding:	101.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	04-FEB-14	Finding:	23.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-FEB-14	Finding:	50.5
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	0.39
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-14	Finding:	24.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-FEB-14	Finding:	19.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	04-FEB-14	Finding:	4.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	52.2
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	8.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	35.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-14	Finding:	471.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	460.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	157.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	0.16
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	35.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	8.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	50.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	4.2
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	06-AUG-13	Finding:	22.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	20.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-AUG-13	Finding:	49.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	26.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	108.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	222.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-AUG-13	Finding:	305.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	0.21
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-AUG-13	Finding:	3160.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAY-13	Finding:	9.e-002
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	9.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	223.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-MAY-13	Finding:	102.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-MAY-13	Finding:	26.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	07-MAY-13	Finding:	51.2
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-MAY-13	Finding:	23.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	18.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	4.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	49.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	8.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	0.11
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	203.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	167.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	478.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-MAY-13	Finding:	377.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	2310.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	05-FEB-13	Finding:	0.39
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	283.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	267.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	114.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	05-FEB-13	Finding:	24.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-FEB-13	Finding:	49.3
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	05-FEB-13	Finding:	22.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	18.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	4.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	50.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	8.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	36.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	0.13
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		

Sample date:	05-FEB-13	Finding:	221.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	181.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	483.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	05-FEB-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	338.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	0.63
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	2710.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-NOV-12	Finding:	482.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	173.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	0.12
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	34.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	8.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	50.8
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	4.5
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	06-NOV-12	Finding:	20.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	23.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	06-NOV-12	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	06-NOV-12	Finding:	51.3
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-NOV-12	Finding:	26.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-NOV-12	Finding:	116.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	06-NOV-12	Finding:	258.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	2560.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-AUG-12	Finding:	306.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	243.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-AUG-12	Finding:	24.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-AUG-12	Finding:	50.2
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-AUG-12	Finding:	24.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	07-AUG-12	Finding:	18.1
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	5.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	50.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	8.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	36.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.13
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	207.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	174.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	491.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-AUG-12	Finding:	0.57
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	3290.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-FEB-12	Finding:	12.9
Chemical:	HYDROXIDE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.89
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	301.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	07-FEB-12	Finding:	228.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-FEB-12	Finding:	102.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-FEB-12	Finding:	26.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-12	Finding:	47.4
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-FEB-12	Finding:	25.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	21.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	3.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	48.4
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	7.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	100.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	0.16
Chemical:	PHOSPHATE (AS PO4)	Report units:	UG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	22.8
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	07-FEB-12	Finding:	186.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	522.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	8.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

O65
ESE **CA WELLS** **23223**
1/2 - 1 Mile
Higher

Seq:	23223	Prim sta c:	J39/701-006
Frds no:	3910701007	County:	39
District:	10	User id:	PTA
System no:	3910701	Water type:	G
Source nam:	WELL 06	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	375107.0	Longitude:	1211600.0
Precision:	5	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3910701	System nam:	Admin. Support Ctr.-West - Sharpe Site
Hqname:	Not Reported	Address:	P.O. BOX 960001 (ASCW-WB)
City:	STOCKTON	State:	CA
Zip:	95296	Zip ext:	5234
Pop serv:	1200	Connection:	147
Area serve:	SHARPE ARMY DEPOT		
Sample date:	13-AUG-13	Finding:	3.21
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-AUG-13	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-AUG-13	Finding:	1.47
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

P66
WSW **FED USGS** **USGS40000185898**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S006E15F001M	Type:	Well
Description:	Not Reported	HUC:	18040003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		

Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19611129	Well Depth:	188
Well Depth Units:	ft	Well Hole Depth:	188
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-11-29
Feet below surface:	20.00	Feet to sea level:	Not Reported
Note:	Not Reported		

P67
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000037755**

State Well #:	01S06E15F001M	Station ID:	3210
Well Name:	01S06E15F001M	Basin Name:	Eastern San Joaquin
Well Use:	Residential	Well Type:	Single Well
Well Depth:	188	Well Completion Rpt #:	64398

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSE **OIL_GAS** **CAOG15000134189**
0 - 1/8 Mile

API #:	0407720040	Well #:	3
Well Status:	Plugged	Well Type:	Dry Hole
Well Design:	Southeast Lathrop Unit A 3		
Lease Name:	Southeast Lathrop Unit A	Operator ID:	T3460
Field Name:	Lathrop Southeast Gas (ABD)		
Area Name:	Any Area	Place:	San Joaquin County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	01/04/1968

2
South **OIL_GAS** **CAOG15000134186**
1/4 - 1/2 Mile

API #:	0407720027	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Well Design:	Southeast Lathrop Unit A 1		
Lease Name:	Southeast Lathrop Unit A	Operator ID:	T3460
Field Name:	Lathrop Southeast Gas (ABD)		
Area Name:	Any Area	Place:	San Joaquin County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	10/07/1967

3
SE **OIL_GAS** **CAOG15000134187**
1/2 - 1 Mile

API #:	0407720042	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Well Design:	S.P. Unit One 1	Lease Name:	S.P. Unit One
Operator ID:	T3460	Field Name:	Lathrop Southeast Gas (ABD)
Area Name:	Any Area	Place:	Lathrop
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	01/21/1968

4
SW **OIL_GAS** **CAOG15000134188**
1/2 - 1 Mile

API #:	0407720037	Well #:	2
Well Status:	Plugged	Well Type:	Dry Hole
Well Design:	Southeast Lathrop Unit A 2		
Lease Name:	Southeast Lathrop Unit A	Operator ID:	T3460
Field Name:	Lathrop Southeast Gas (ABD)		
Area Name:	Any Area	Place:	San Joaquin County
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	11/29/1967

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

5
SSE **OIL_GAS** **CAOG15000134185**
1/2 - 1 Mile

API #:	0407720066	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Well Design:	Towne-Sp Unit Two 1	Lease Name:	Towne-Sp Unit Two
Operator ID:	U0575	Field Name:	Lathrop Southeast Gas (ABD)
Area Name:	Any Area	Place:	Lathrop
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	Spud Date:	11/13/1968

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95330	2	0

Federal EPA Radon Zone for SAN JOAQUIN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN JOAQUIN COUNTY, CA

Number of sites tested: 20

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.530 pCi/L	90%	10%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.050 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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SUBJECT PROPERTY RECORDS

FOR OFFICE USE:

DY

SAN JOAQUIN LOCAL HEALTH DISTRICT
1601 E. Hazelton Ave., Stockton, Calif.
Telephone: (209) 466-6781

APPLICATION FOR WELL CONSTRUCTION OR PUMP PERMIT   Permit No. 78-364

THIS PERMIT EXPIRES 1 YEAR FROM DATE ISSUED   Date Issued 3-15-78

1169 W. MANILA RD.   (Complete In Triplicate)   191-250-06

Application is hereby made to the San Joaquin Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 1862 and the Rules and Regulations of the San Joaquin Local Health District.

NOTE: 0.1 mile N/Manila Rd 0.15 miles W/Matheny Rd

JOB ADDRESS/LOCATION ~~169 MANILA ROAD~~   CENSUS TRACT ______

Owner's Name LEX CORRALES   Phone ______

Address 221 MANILA ROAD   City LATHROP

Contractor's Name CLARK WELL & EQUIPMENT CO.   License # 76602   Phone 462-5597

169 W. MANILA RD

TYPE OF WORK (Check): NEW WELL [X] DEEPEN [ ] RECONDITION [ ] DESTRUCTION [ ]
PUMP INSTALLATION [ ] PUMP REPAIR [ ] PUMP REPLACEMENT [ ]
Other [ ] ______

DISTANCE TO NEAREST: SEPTIC TANK ___ SEWER LINES ___ PIT PRIVY ___
SEWAGE DISPOSAL FIELD ___ CESSPOOL/SEEPAGE PIT ___ OTHER ___
PROPERTY LINE - PRIVATE DOMESTIC WELL ___ PUBLIC DOMESTIC WELL ___

INTENDED USE	TYPE OF WELL	CONSTRUCTION SPECIFICATIONS
___ Industrial	✓ Cable Tool	Dia. of Well Excavation 12"
___ Domestic/private	___ Drilled	Dia. of Well Casing 12"
___ Domestic/public	___ Driven	Gauge of Casing .188
✓ Irrigation	___ Gravel Pack	Depth of Grout Seal —
___ Cathodic Protection	___ Rotary	Type of Grout —
___ Disposal	___ Other ___	Other Information ___
___ Geophysical		Surface Seal Installed By: ___

PUMP INSTALLATION: Contractor ______
Type of Pump ______ H.P. ___

PUMP REPLACEMENT: [ ] State Work Done ______

PUMP REPAIR: [ ] State Work Done ______

DESTRUCTION OF WELL: Well Diameter ______ Approximate Depth ______
Describe Material and Procedure ______

I hereby agree to comply with all laws and regulations of the San Joaquin Local Health District and the State of California pertaining to or regulating well construction. Within FIFTEEN DAYS after completion of my work on a new well, I will furnish the San Joaquin Local Health District a WELL DRILLERS REPORT of the well and notify them before putting the well in use. The above information is true to the best of my knowledge and belief. I WILL CALL FOR A GROUT INSPECTION PRIOR TO GROUTING AND A FINAL INSPECTION.

SIGNED Lex A. Corrales   TITLE Owner

(DRAW PLOT PLAN ON REVERSE SIDE)

FOR DEPARTMENT USE ONLY

PHASE I
APPLICATION ACCEPTED BY J Miller   DATE 3-15-78
ADDITIONAL COMMENTS: O

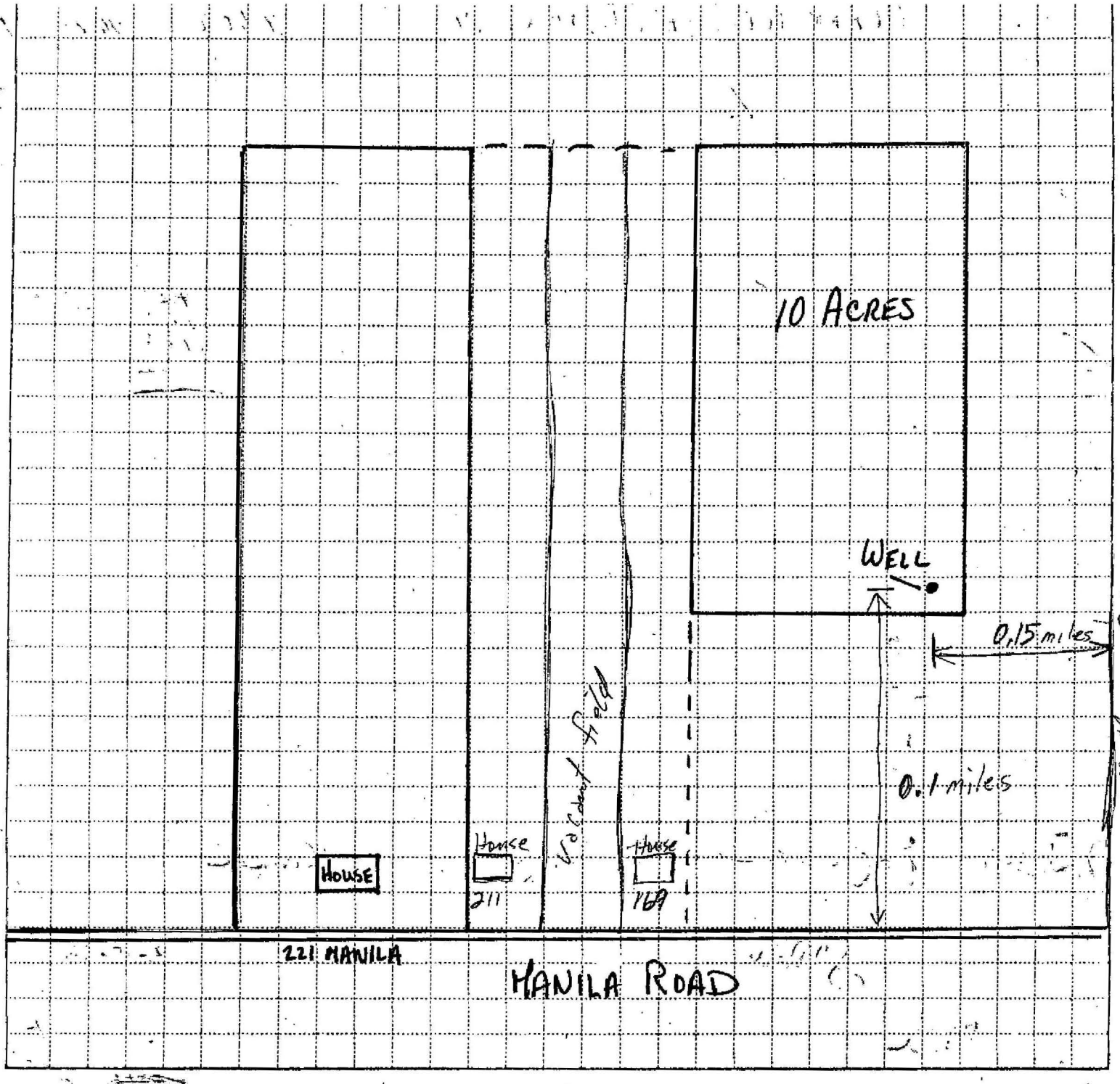
PHASE II GROUT INSPECTION
INSPECTION BY N/A   DATE ______
* 150 ft deep

PHASE III/FINAL INSPECTION
INSPECTION BY D. Yoder   DATE 3-22-78
CB

E.H. 1426 Rev. 1-76   1/77 2M

PLOT PLAN
(DRAW TO SCALE)
SCALE ____" TO ____'

1. Names of streets or roads nearest to or bounding the property.
2. Outline of the property, giving dimensions and North direction.
3. Dimensioned outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways and walks.
4. Location of house sewer outlet, public sewer, sewage disposal system or proposed sewage disposal system, proposed expansion of sewage disposal system, or any other possible source of contamination.
5. Location of other wells within radius of 75 feet on the property or adjoining property.
6. Location of sewage disposal system on adjoining property or within a radius of 100 feet.



completed

FOR OFFICE USE:

SAN JOAQUIN LOCAL HEALTH DISTRICT
1601 E. Hazelton Ave., Stockton, CA 95205
Telephone: (209) 466-6781

APPLICATION FOR WELL CONSTRUCTION OR PUMP PERMIT

Permit No. 78-780

Date Issued 5/26/78

This Permit Expires 1 Year From Date Issued
(Complete In Triplicate)

191-250-06

Application is hereby made to the San Joaquin Local Health District for a permit to construct and/or install the work herein described. This application is made in compliance with San Joaquin County Ordinance No. 1862 and the Rules and Regulations of the San Joaquin Local Health District.

EXACT STREET ADDRESS 169 W. Manila Rd / off I-5 See Map on back side CITY/TOWN ______

Owner's Name Lex Corralas Phone ______

Address 221 Manila Rd City Lathrop

Contractor's Name Stawell Ezaupto License# 193721 Phone 462-7676

IS CERTIFICATE OF WORKMAN'S COMPENSATION INSURANCE ON FILE WITH SJLHD? YES X NO

169 W Manila Rd. off I-5

TYPE OF WORK (Check): NEW WELL ☐ DEEPEN ☐ RECONDITION ☐ DESTRUCTION ☐
WELL CHLORINATION ☐ WELL ABANDONMENT ☐ OTHER ☐ ______
PUMP INSTALLATION ☒ PUMP REPAIR ☐ PUMP REPLACEMENT ☐

DISTANCE TO NEAREST: SEPTIC TANK ______ SEWER LINES ______ PIT PRIVY ______
SEWAGE DISPOSAL FIELD ______ CESSPOOL/SEEPAGE PIT ______ OTHER ______
PROPERTY LINE - PRIVATE DOMESTIC WELL ______ PUBLIC DOMESTIC WELL ______

INTENDED USE	TYPE OF WELL	CONSTRUCTION SPECIFICATIONS
___ Industrial	___ Cable Tool	Dia. of Well Excavation ______
___ Domestic/private	___ Drilled	Dia. of Well Casing ______
___ Domestic/public	___ Driven	Gauge of Casing ______
X Irrigation	___ Gravel Pack	Depth of Grout Seal ______
___ Cathodic Protection	___ Rotary	Type of Grout ______
___ Disposal	___ Other ______	Other Information ______
___ Geophysical		Surface Seal Installed by: ______

PUMP INSTALLATION: Contractor Stawell Ezaupto
Type of Pump Turbine H.P. 10

PUMP REPLACEMENT: ☐ State Work Done ______

PUMP ~~REPAIR~~: ☐ State Work Done Install New Pump in New well

DESTRUCTION OF WELL: Well Diameter ______ Approximate Depth ______
Describe Material and Procedure ______

I hereby certify that I have prepared this application and that the work will be done in accordance with San Joaquin County Ordinances, State Laws, and Rules and Regulations of the San Joaquin Local Health District. Home owner or licensed agent's signature certifies the following:
"I certify that in the performance of the work for which this permit is issued, I shall not employ any person in such manner as to become subject to Workman's Compensation laws of California."

I WILL CALL FOR A GROUT INSPECTION PRIOR TO GROUTING AND A FINAL INSPECTION.

SIGNED Stawell Ezaupto [signature] TITLE: Pres DATE: ______

(DRAW PLOT PLAN ON REVERSE SIDE)

FOR DEPARTMENT USE ONLY

PHASE I
APPLICATION ACCEPTED BY Robert L. Hunsel / Yoder DATE 5/26/78
ADDITIONAL COMMENTS:

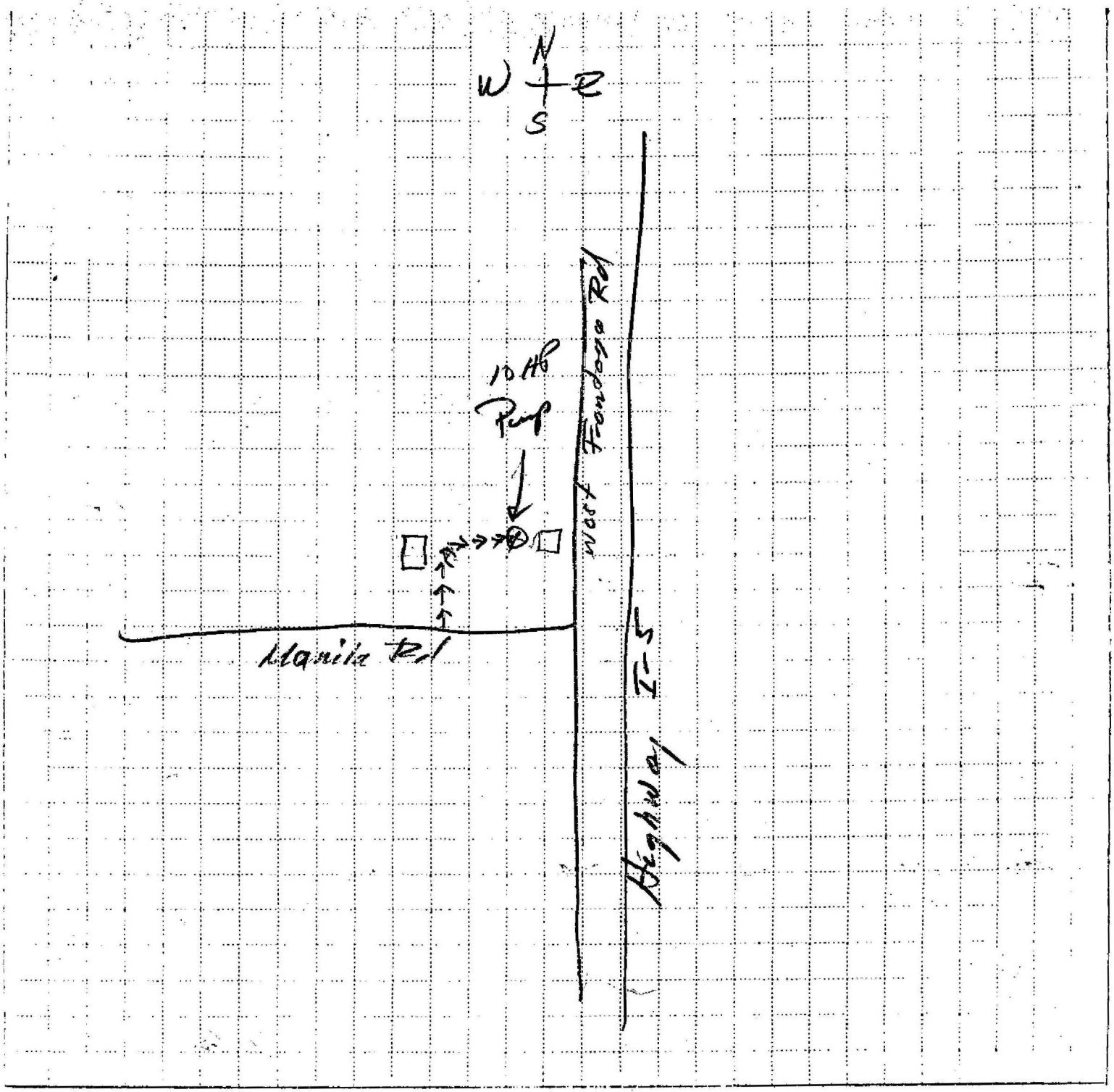
PHASE II GROUT INSPECTION
INSPECTION BY ______ DATE ______

PHASE III FINAL INSPECTION
INSPECTION BY D. Yoder DATE 5-31-78

1/78 2M

PLOT PLAN
(DRAW TO SCALE)
SCALE ____" TO ____'

1. Names of streets or roads nearest to or bounding the property.
2. Outline of the property, giving dimensions and North direction.
3. Dimensioned outlines and locations of all existing and proposed structures, including covered areas such as patios, driveways and walks.
4. Location of house sewer outlet, public sewer, sewage disposal system or proposed sewage disposal system, proposed expansion of sewage disposal system, or any other possible source of contamination.
5. Location of other wells within radius of 75 feet on the property or adjoining property.
6. Location of sewage disposal system on adjoining property or within a radius of 150 feet.



APPENDIX D

Interview Documentation

ASTM Transaction Screen Questionnaire
for the Phase I Environmental Site Assessment (E1527-21)
& Environmental Transaction Screen Processes (E1528-14)

In accordance with ASTM Standard Process E1527-21, the objective of an interview/questionnaire is to obtain information indicating Recognized Environmental Conditions (RECs) in connection with the property. This questionnaire is to be completed by the current/past property owner, occupant or anyone with past knowledge concerning the property, either in written form or verbally, with questions asked by AdvancedGeo, Inc. (AGI) or User (Client) designated parties. All questions should be answered to the best of the respondent's actual knowledge and must be answered in good faith. Explanations to any answers, especially "Yes" answers, should be made in the space following the question or on a separate sheet, noting the question number. Please be as complete as possible; if you do not know the answer to a question, please check unknown. Following the site visit, it may be necessary for AGI or the preparer to ask clarifying questions of the interviewee(s).

Project Name & Number: Singh Petroleum and Bacay Properties
Project Address: 11292 South Manthey Road and 169 Manila Road, Lathrop, California
Interview type: ☑:Verbal ☐:Written

Person Interviewed: **Date:** 3/15/23
Name: Mr. Gurbinder Singh
Company: Valley Real Estate Center
Address: 17900 Murphy Parkway Lathrop CA
Contact Info: (408) - 355 - 5700
Relationship to property:
☑:current property owner
☐:former property owner
☐:property occupant
☐:site manager

☐ This interview was performed by:
Name: Maxwell E Niemeyer
Title: Staff Scientist
of AdvancedGeo, Inc. (AGI)
phone: 800-511-9300
fax: 888-445-8786

OR

User/Client Information:
Name:
Company:
Address:
Contact Info:
Relationship to property:
☐:property seller/owner
☐:property buyer
☐:financing entity
☐:other, list-

☐ This interview was performed/administered by:
Name:
Address:
Phone/fax:
Relationship to property, list:
Relationship to user (client), list:

The preparer represents that to the best of the preparer's knowledge the statements and facts made below are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Maxwell Niemeyer
Signature

3/15/23 (Preparer/Interviewer)
Date

Signature

(Interviewee, if available)
Date

AdvancedGeo
An Employee-Owned Company

GENERAL HISTORY OF THE PROPERTY

When did you first obtain or begin managing this property? If you are not an owner, what is or was your relationship to the subject property? Are you still associated with the property?

- May 2019

From whom did the current owner obtain the property? How long did the former owner hold the property?

- Kelly Family

What is the general history of the property? Please include what residential or business uses have been made of the property and when, and what structures were built or demolished and when. If it is agricultural, what general crops have been grown and when.

- rural agriculture

What is the general history and use of the adjacent properties and the general surrounding area?

North: residence

South: residence

East: Interstate 5

West: agriculture

PRESENCE OF ASBESTOS IN ON-SITE STRUCTURE(S)

Has an asbestos survey been performed on the property buildings? ☐ Yes ☑ No ☐ Unknown

If YES, assuming the survey included physical sampling by a qualified firm, was the property free of asbestos, or not free of asbestos? ☐ Free ☐ Not Free ☐ Unknown

Explain as appropriate; do you have a copy of the survey report? ☐ Yes ☐ No
*if a copy is available, please provide to AGI

Do you have any past or present knowledge of asbestos-containing materials (ACMs) on the property? ☐ Yes ☑ No ☐ Unknown

If yes, describe:

- No structures on site

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ADDITIONAL HAZARDS

Lead-based Paint (LBP): Are you aware of the presence of LBP-coated surfaces on the property structure(s)? ☐ Yes ☑ No ☐ Unknown

If yes, describe:

Is there any evidence on the subject property of illegal or dangerous on-site application, handling or storage of maintenance chemicals such as pesticides, rodenticides, fertilizers, cleaners, paint solvents, swimming pool cleaners, etc? ☐ Yes ☑ No ☐ Unknown

If yes, describe:

Have there ever been any dry wells, sumps, separators (or clarifiers or grease traps) or in-ground hydraulic lifts on the property? ☐ Yes ☑ No ☐ Unknown

If yes, describe (include where, what use and size, if known):

SUBJECT PROPERTY UTILITY INFORMATION

Is water currently provided by: ☐ public water system ☐ well ☐ private company

List name of utility provider and/or location of well, connection date: ☑ none or list-

Electrical utility provider and estimated connection date: ☑ none or list-

Natural gas utility provider and estimated connection date: ☑ none or list-

Does the property discharge waste water to a: ☐ municipal sewer sanitary system; ☐ on-site sewage treatment system; ☐ on-site septic system; or ☑ there is no sewer utility/septic on-site.

If the property is served by a septic system or systems, please list the location of the system (is a permit available?):

- decommissioned septic system

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TRANSACTION SCREEN QUESTIONNAIRE (attach additional pages, if needed)

(1a.) Is the property *currently used*, or used in the *past*, for research, military and/or industrial use?

☐ Yes ☑ No ☐ Unknown -If yes, describe:

(1b.) Are any of the adjoining properties *currently used*, or have been used in the *past*, for research, military and/or industrial use? ☐ Yes ☑ No ☐ Unknown -If yes, describe:

2

(2a.) Is the property *currently used*, or used in the *past*, as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing lab, junkyard or landfill or as a waste treatment, storage, disposal, processing or recycling facility? ☐ Yes ☑ No ☐ Unknown

If yes, describe (and identify which):

(2b.) Are any of the adjoining properties *currently used*, or have been used in the *past*, as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing lab, junkyard or landfill or as a waste treatment, storage, disposal, processing or recycling facility?

☐ Yes ☑ No ☐ Unknown -If yes, describe (and identify which):

(3.) Are there *currently*, or have there been in the *past*, any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers larger than 5-gallon stored or used at the property or facility? ☑ Yes ☐ No ☐ Unknown -If yes, describe:

- Illegally dumped oil filters, to be cleaned up

(4.) Are there *currently*, or have there been in the *past*, any industrial drums, typically 55-gallon, or sacks of chemicals located on the property or facility? ☑ Yes ☐ No ☐ Unknown -If yes, describe:

- Two empty with oil residue, to be cleaned up

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(5.) Did you observe evidence or do you have prior knowledge that fill dirt has been brought onto the property that originated from a *contaminated site* or from an *unknown origin*?

☐ Yes ☑ No ☐ Unknown -If yes, describe:

(6.) Are there *currently*, or have there been in the *past*, any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?

☐ Yes ☑ No ☐ Unknown -If yes, describe:

(7.) Is there *currently*, or has there been in the *past*, any stained soil on the property?

☑ Yes ☐ No ☐ Unknown -If yes, describe:

- Illegal dump site, to be cleaned up

(8.) Are there *currently*, or has there been in the *past*, any registered or unregistered storage tanks (above or under-ground) located on the property? ☐ Yes ☑ No ☐ Unknown

If yes, where are they located? Number, Size, Content

(9.) Are there *currently*, or has there been in the *past*, any vent pipes, fill pipes or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property? ☐ Yes ☑ No ☐ Unknown -If yes, describe (include location):

(10.) Are there *currently*, or has there been in the *past*, any flooring, drains or walls located within the facility that are stained by substances other than water or are emitting foul odors?

☐ Yes ☑ No ☐ Unknown -If yes, describe:

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(11a.) If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system? ☐ Yes ☑ No ☐ Unknown Non-applicable

-If yes, describe:

(11b.) If the property is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency? ☐ Yes ☑ No ☐ Unknown Non-applicable

-If yes, describe:

(12.) Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to *past* or *recurrent* violations of environmental laws with respect to the property or any facility located on the property? ☐ Yes ☑ No ☐ Unknown

-If yes, describe:

(13.) Has the owner or occupant of the property been informed of the *current* or *past* existence of hazardous substances or petroleum products with respect to the property or any facility located on the property? ☑ Yes ☐ No ☐ Unknown -If yes, describe:

- Used as illegal dump site with petroleum contamination

(14.) Has the owner or occupant of the property been informed of the *current* or *past* existence of environmental violations with respect to the property or any facility located on the property?

☐ Yes ☑ No ☐ Unknown -If yes, describe:

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(15.) Does the owner or occupant of the property have any knowledge of any past environmental site assessments of the property or facility. (Phase I, II, sampling etc.) ☑ Yes ☐ No ☐ Unknown

- previous site assements by AGI from 2019 and 2021

If Yes, did the assessment indicate the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?

☐ Yes ☑ No ☐ Unknown

Can you provide AGI with a copy (or copies) of any previous environmental assessments and/or documents in relation to the property? ☑ Yes ☐ No

(16.) Does the owner or occupant of the property have any knowledge of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances or petroleum products involving the property by any owner or occupant of the property? ☐ Yes ☑ No ☐ Unknown -If yes, describe:

(17a.) Does the property discharge waste water, on or adjacent to the property, other than storm water, into a storm water sewer system? ☐ Yes ☑ No ☐ Unknown -If yes, describe:

(17b.) Does the property discharge waste water, on or adjacent to the property, other than storm water, into a sanitary sewer system? ☐ Yes ☑ No ☐ Unknown -If yes, describe:

(18.) Did you observe evidence or do you have any prior knowledge that any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?

☑ Yes ☐ No ☐ Unknown -If yes, describe:

- Illegal dump site

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(19.) Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs? ☐ Yes ☑ No ☐ Unknown -If yes, describe:

(20.) Are there any additional items of possible environmental concern regarding the property that have not been discussed in this interview? ☐ Yes ☑ No -If yes, describe:

Note: Helpful subject property documents that should be transmitted to AGI include the following:

- Environmental Site Assessment Reports
- Environmental Compliance Audit Reports
- Environmental permits
- UST/AST registrations
- Underground injection system registrations
- Hazardous Materials Inventories and Hazardous Materials Management Plans
- Risk assessments
- Geotechnical studies
- Recorded AULs (Activity and Use Limitations)

APPENDIX E

Miscellaneous Documents

AdvancedGeo
An Employee-Owned Company

VAPOR ENCROACHMENT SCREENING (ASTM E2600-15)

Singh Petroleum and Bacay Properties
11293 South Manthey Road and 169 Manila Road, Lathrop, California 95330
March 2023

In accordance with ASTM Standard E2600-15 and the Buonicore Area of Concern determination (2011)[i], AdvancedGeo, Inc. performed the initial Tier 1 Vapor Encroachment Screening which includes determining the presence or likely presence of volatile organic compounds (VOCs) vapors in the sub-surface of the subject property (SP) caused by the release of vapors from contaminated soil or groundwater either on or near the Target Property within an Area of Concern (AOC) to determine if a potential Vapor Encroachment Condition (VEC) exists. Should sites fall within the AOC, a limited Tier 2 screening will be performed.

TIER 1 SCREENING

(1) Soil-Vapor Sampling

(1a) Has a soil-vapor investigation been completed at the subject or suspected contamination site (or sites)?

X	No	Proceed to **(2)**
	Yes	Proceed to **(1b)**

(1b) Are **non-petroleum hydrocarbon COC** or **petroleum hydrocarbon COC** present above established screening levels for the for soil-vapor beneath the subject property. **Not Applicable**

(2) Ground Water Flow Direction: Is the groundwater flow direction known?

	No	Proceed to **(2a)**
X	Yes	Proceed to **(2b)**
		Groundwater flow direction: **Northwest**

(2a) If groundwater flow direction is **unknown**, the AOC is:

- Non-Petroleum Hydrocarbon Contaminants of Concern (COC): **1,760 feet (1/3-mile)** from the contaminated site boundary to the boundary of the SP.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** for from the contaminated site boundary to the boundary of the SP.
- Free Product (Light non-aqueous phase liquids [LNAPL]) COC: **528 feet**

(1/10-mile) for from the contaminated site boundary to the boundary of the SP.

Are sites located within the AOC? **Not Applicable**

(2b) If groundwater flow direction is known, the AOC for non-petroleum hydrocarbon COC and dissolved petroleum hydrocarbon or free product (LNAPL) COC is:

- Non-Petroleum Hydrocarbon COC: **1,760 feet (1/3-mile)** in the up-gradient position, **365 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.
- Dissolved Petroleum Hydrocarbon COC: **528 feet (1/10-mile)** in the up-gradient position; **95 feet** in the equi-gradient position, and **30 feet** in the down-gradient position.
- Free Product (LNAPL) COC: **528 feet (1/10-mile)** in the up-gradient position, **165 feet** in the equi-gradient position, and **100 feet** in the down-gradient position.

Are sites located within the AOC?

X	No	Tier 1 screening is complete, and no VEC currently exists, proceed to **CONCLUSIONS**
	Yes	Proceed to **(3)**

(3) Subsurface Characteristics

(3a) Is there a hydraulic (e.g., a river) or physical barrier (e.g., clay barrier) between the SP and the suspected contaminated site (or sites)? **Not Applicable**

(3b) Are **non-petroleum hydrocarbon COC** and **dissolved petroleum hydrocarbon** or **free product (LNAPL) COC** known to be in the groundwater beneath the subject property. **Not Applicable**

TIER 2 SCREENING

If the Tier 1 screening indicates that a VEC exists, the Tier 2 non-invasive screening can be used to refine screening. Tier 2 applies numeric screening criteria to existing or newly collected soil, soil gas and/or groundwater monitoring results to provide greater certainty to whether or not a VEC exists. The Tier 2 screening involve a Plume Test and Critical Distance Determination. **The Critical Distance Determination requires that the edge of the plume be known**. The Critical Distance is the lineal distance in any direction between the nearest edge of the contaminated plume and the nearest SP boundary.

A Tier 2 Screening was not warranted for the subject property.

CONCLUSIONS

(1) Conclusions: Impact on Subject Property

A VEC exists

X A VEC does not exist

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[i] Buonicore, A.J., 2011, Methodology for Identifying the Area of Concern Around a Property Potentially Impacted by Vapor Migration from Nearby Contaminated Sources, Paper #2011-A-301-AWMA.

APPENDIX F

Qualifications of the Environmental Professionals

ROBERT D. LOEFFLER

POSITION
VICE PRESIDENT, SENIOR GEOLOGIST

EDUCATION
B.S. Geological Sciences – California State University, Fullerton
Course work in ground water technologies - UC Davis Extension

PROFESSIONAL REGISTRATION
California Professional Geologist No. 6709
Arizona Registered Geologist No. 34944
Washington Licensed Geologist No. 2751
Texas Professional Geoscientist No. 10890
Registered Environmental Property Assessor No. 136161 (NREP)
Qualified SWPPP Practitioner (QSP) and Qualified SWPPP Developer (QSD) No. 24014

DUTIES
Mr. Loeffler's current duties include design, planning, coordination, and supervision of various environmental projects. These projects include all phases of environmental assessment, site assessments, and mitigation of contaminated soil and groundwater. During the course of projects, he acts as liaison between the client and regulatory agencies, schedules work, supervises projects from start to finish, and prepares and reviews work plans and reports.

EMPLOYMENT HISTORY

2020 - Present:	Vice President, Senior Geologist AdvancedGeo, Inc. (an Employee-Owned Company)
1992 - 2019:	Vice President, Senior Geologist Advanced GeoEnvironmental, Inc.
1989 - 1992:	Project Geologist Geological Audit Services, Inc., Yorba Linda, California
1988 - 1989:	Staff Geologist Applied Hydrogeologic Consultants, Santa Ana, California
1988:	Geologist USGS - Pacific Marine Division, Seattle, Washington

REBECCA E. NATAL

POSITION
PROJECT SCIENTIST

EDUCATION
B.S. Biological Sciences – University of the Pacific

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS
California Certified Site Surveillance Technician No. 15-5520
California Lead-Related Construction Sampling Technician No. 29351

DUTIES
Ms. Natal has a broad range of experience in site assessment, remediation, industrial hygiene and due diligence. She has over 15 years of experience completing Phase I and Phase II site assessments and presently manages numerous industrial-hygiene and due diligence-related projects throughout the Western United States.

EMPLOYMENT HISTORY

2020 – Present:	Project Scientist AdvancedGeo, Inc. (an Employee-Owned Company)
2015 - 2019:	Project Scientist Advanced GeoEnvironmental, Inc.
2006 - 2015:	Staff Scientist Advanced GeoEnvironmental, Inc.
2006 – 2006:	Quality Control Lab Technician J.R. Simplot
2005 – 2006:	Scientific Aid California Department of Fish and Wildlife

APPENDIX F

Environmental Noise Assessment Appendices

Environmental Noise Assessment

Singh Petroleum Investment

City of Lathrop, California

November 15, 2023

Project #200902

Prepared for:

DE NOVO PLANNING GROUP

De Novo Planning Group
1020 Suncast Lane, Suite 106
El Dorado Hills, CA 95762

Prepared by:

Saxelby Acoustics LLC

Luke Saxelby, INCE Bd. Cert.
Principal Consultant
Board Certified, Institute of Noise Control Engineering (INCE)

(916) 760-8821
www.SaxNoise.com | Luke@SaxNoise.com
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Appendix A: Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
ASTC	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
DNL	See definition of Ldn.
IIC	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
Ldn	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
Leq	Equivalent or energy-averaged sound level.
Lmax	The highest root-mean-square (RMS) sound level measured over a given period of time.
L(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
NIC	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
NNIC	Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation.
Noise	Unwanted sound.
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
RT60	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
SPC	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.

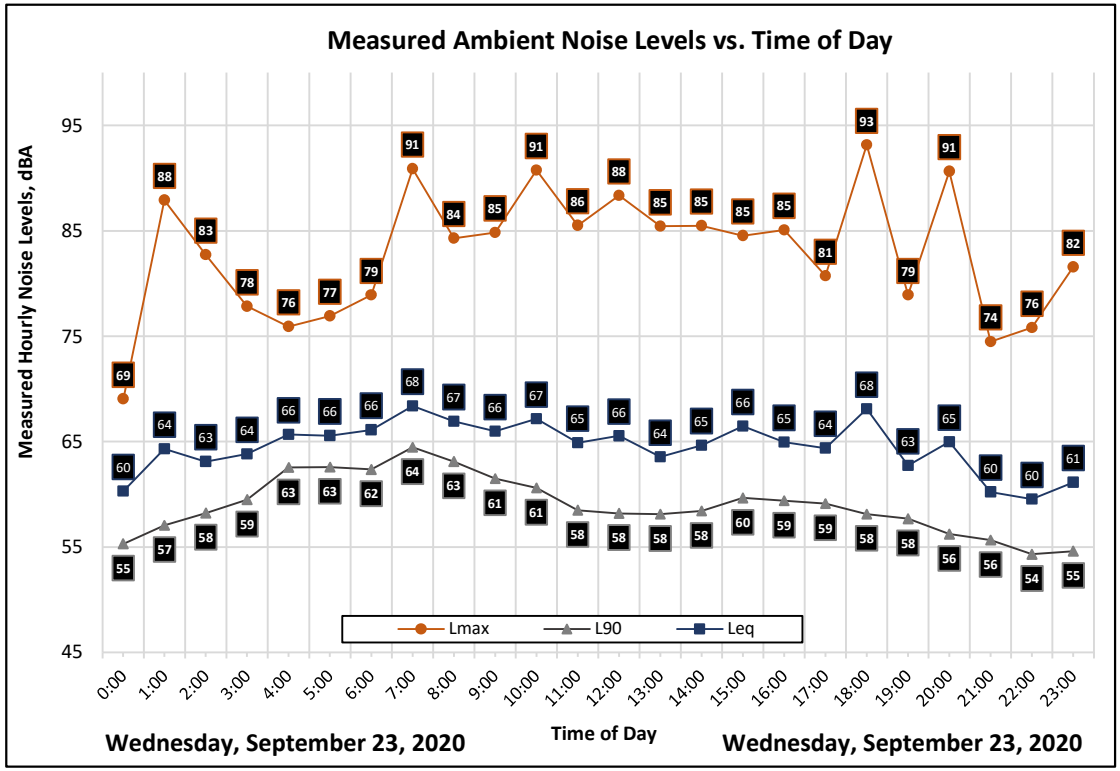
Appendix B: Continuous Ambient Noise Measurement Results

Appendix B1: Continuous Noise Monitoring Results

Site: LT-1
Project: Singh Petroleum Investment, Inc
Meter: LDL 812-2
Location: Northern Edge of Project Site
Calibrator: CAL200
Coordinates: 37.8555046°, -121.2838198°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Wednesday, September 23, 2020	0:00	60	69	59	55
Wednesday, September 23, 2020	1:00	64	88	61	57
Wednesday, September 23, 2020	2:00	63	83	62	58
Wednesday, September 23, 2020	3:00	64	78	63	59
Wednesday, September 23, 2020	4:00	66	76	65	63
Wednesday, September 23, 2020	5:00	66	77	65	63
Wednesday, September 23, 2020	6:00	66	79	65	62
Wednesday, September 23, 2020	7:00	68	91	67	64
Wednesday, September 23, 2020	8:00	67	84	66	63
Wednesday, September 23, 2020	9:00	66	85	65	61
Wednesday, September 23, 2020	10:00	67	91	64	61
Wednesday, September 23, 2020	11:00	65	86	63	58
Wednesday, September 23, 2020	12:00	66	88	62	58
Wednesday, September 23, 2020	13:00	64	85	62	58
Wednesday, September 23, 2020	14:00	65	85	62	58
Wednesday, September 23, 2020	15:00	66	85	63	60
Wednesday, September 23, 2020	16:00	65	85	63	59
Wednesday, September 23, 2020	17:00	64	81	63	59
Wednesday, September 23, 2020	18:00	68	93	62	58
Wednesday, September 23, 2020	19:00	63	79	61	58
Wednesday, September 23, 2020	20:00	65	91	60	56
Wednesday, September 23, 2020	21:00	60	74	59	56
Wednesday, September 23, 2020	22:00	60	76	58	54
Wednesday, September 23, 2020	23:00	61	82	58	55

Statistics	Leq	Lmax	L50	L90
Day Average	66	86	63	59
Night Average	64	79	62	58
Day Low	60	74	59	56
Day High	68	93	67	64
Night Low	60	69	58	54
Night High	66	88	65	63
Ldn	70	Day %		73
CNEL	71	Night %		27

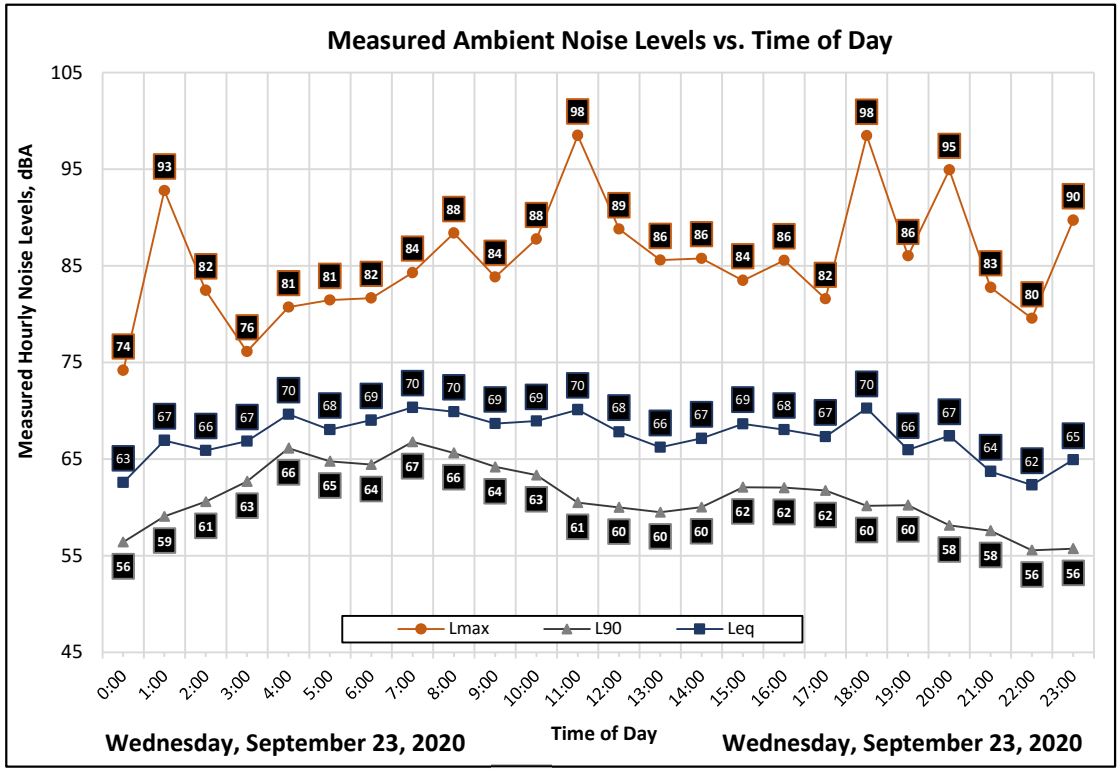


Appendix B2: Continuous Noise Monitoring Results

Site: LT-2
Project: Singh Petroleum Investment, Inc
Meter: LDL 812-1
Location: Southern Edge of Project Site
Calibrator: CAL200
Coordinates: 37.8540171°, -121.2836354°

Date	Time	Measured Level, dBA			
		L_{eq}	L_{max}	L_{50}	L_{90}
Wednesday, September 23, 2020	0:00	63	74	61	56
Wednesday, September 23, 2020	1:00	67	93	64	59
Wednesday, September 23, 2020	2:00	66	82	65	61
Wednesday, September 23, 2020	3:00	67	76	67	63
Wednesday, September 23, 2020	4:00	70	81	69	66
Wednesday, September 23, 2020	5:00	68	81	67	65
Wednesday, September 23, 2020	6:00	69	82	67	64
Wednesday, September 23, 2020	7:00	70	84	69	67
Wednesday, September 23, 2020	8:00	70	88	68	66
Wednesday, September 23, 2020	9:00	69	84	67	64
Wednesday, September 23, 2020	10:00	69	88	67	63
Wednesday, September 23, 2020	11:00	70	98	66	61
Wednesday, September 23, 2020	12:00	68	89	64	60
Wednesday, September 23, 2020	13:00	66	86	64	60
Wednesday, September 23, 2020	14:00	67	86	65	60
Wednesday, September 23, 2020	15:00	69	84	66	62
Wednesday, September 23, 2020	16:00	68	86	66	62
Wednesday, September 23, 2020	17:00	67	82	65	62
Wednesday, September 23, 2020	18:00	70	98	64	60
Wednesday, September 23, 2020	19:00	66	86	64	60
Wednesday, September 23, 2020	20:00	67	95	63	58
Wednesday, September 23, 2020	21:00	64	83	62	58
Wednesday, September 23, 2020	22:00	62	80	60	56
Wednesday, September 23, 2020	23:00	65	90	61	56

Statistics	Leq	Lmax	L50	L90
Day Average	68	88	65	61
Night Average	67	82	65	61
Day Low	64	82	62	58
Day High	70	98	69	67
Night Low	63	74	60	56
Night High	70	93	69	66
Ldn	73	Day %		71
CNEL	74	Night %		29



Appendix C: Traffic Noise Calculation Inputs and Results

Appendix C-1

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 200902
Description: Singh Petroleum Investment - Existing
Ldn/CNEL: Ldn
Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset 60 dBA	65 dBA	70 dBA	Level, dBA
1	Roth Rd.	East of Manthey Rd.	246	72	0	28	1.0%	1.0%	45	80	0	16	8	4	49.6
2	Manthey Rd.	South of Roth Rd.	257	72	0	28	1.0%	1.0%	50	200	0	20	9	4	45.0
3	SB I-5 Off Ramp	North of Roth Rd.	283	72	0	28	1.0%	1.0%	55	50	0	25	12	5	55.5
4	SB I-5 On Ramp	South of Roth Rd.	175	72	0	28	1.0%	1.0%	45	50	0	13	6	3	51.2
5	NB I-5 On Ramp	North of Roth Rd.	375	72	0	28	1.0%	1.0%	45	80	0	22	10	5	51.5
6	NB I-5 Off Ramp	South of Roth Rd.	216	72	0	28	1.0%	1.0%	55	140	0	21	10	5	47.7
7	Roth Rd.	East of Harlan Rd.	782	72	0	28	1.0%	1.0%	50	45	0	42	20	9	59.6
8	Harlan Rd.	South of Roth Rd.	594	72	0	28	1.0%	1.0%	45	40	0	29	14	6	58.0
9	Manthey Rd.	South of Project Driveway	257	72	0	28	1.0%	1.0%	45	200	0	17	8	4	43.9

SAXELBY ACOUSTICS
Acoustics · Noise · Vibration

Appendix C-2

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 200902
Description: Singh Petroleum Investment - Existing Plus Project
Ldn/CNEL: Ldn
Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset 60 dBA	65 dBA	70 dBA	Level, dBA
1	Roth Rd.	East of Manthey Rd.	486	72	0	28	1.0%	1.0%	45	80	0	26	12	6	52.6
2	Manthey Rd.	South of Roth Rd.	431	72	0	28	1.0%	1.0%	50	200	0	28	13	6	47.3
3	SB I-5 Off Ramp	North of Roth Rd.	328	72	0	28	1.0%	1.0%	55	50	0	28	13	6	56.2
4	SB I-5 On Ramp	South of Roth Rd.	220	72	0	28	1.0%	1.0%	45	50	0	15	7	3	52.2
5	NB I-5 On Ramp	North of Roth Rd.	422	72	0	28	1.0%	1.0%	45	80	0	23	11	5	52.0
6	NB I-5 Off Ramp	South of Roth Rd.	263	72	0	28	1.0%	1.0%	55	140	0	24	11	5	48.5
7	Roth Rd.	East of Harlan Rd.	812	72	0	28	1.0%	1.0%	50	45	0	43	20	9	59.7
8	Harlan Rd.	South of Roth Rd.	616	72	0	28	1.0%	1.0%	45	40	0	30	14	6	58.1
9	Manthey Rd.	South of Project Driveway	249	72	0	28	1.0%	1.0%	45	200	0	16	8	4	43.7

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Appendix C-3

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 200902
Description: Singh Petroleum Investment - Cumulative
Ldn/CNEL: Ldn
Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset 60 dBA	65 dBA	70 dBA	Level, dBA
1	Roth Rd.	East of Manthey Rd.	1,070	72	0	28	1.0%	1.0%	45	80	0	44	20	9	56.0
2	Manthey Rd.	South of Roth Rd.	1,116	72	0	28	1.0%	1.0%	50	200	0	53	25	12	51.4
3	SB I-5 Off Ramp	North of Roth Rd.	585	72	0	28	1.0%	1.0%	55	50	0	41	19	9	58.7
4	SB I-5 On Ramp	South of Roth Rd.	595	72	0	28	1.0%	1.0%	45	50	0	29	14	6	56.5
5	NB I-5 On Ramp	North of Roth Rd.	623	72	0	28	1.0%	1.0%	45	80	0	30	14	7	53.7
6	NB I-5 Off Ramp	South of Roth Rd.	513	72	0	28	1.0%	1.0%	55	140	0	38	17	8	51.4
7	Roth Rd.	East of Harlan Rd.	2,170	72	0	28	1.0%	1.0%	50	45	0	83	39	18	64.0
8	Harlan Rd.	South of Roth Rd.	733	72	0	28	1.0%	1.0%	45	40	0	34	16	7	58.9
9	Manthey Rd.	South of Project Driveway	1,058	72	0	28	1.0%	1.0%	45	200	0	43	20	9	50.0

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Appendix C-4

FHWA-RD-77-108 Highway Traffic Noise Prediction Model

Project #: 200902
Description: Singh Petroleum Investment - Cumulative Plus Project
Ldn/CNEL: Ldn
Hard/Soft: Soft

Segment	Roadway	Segment	ADT	Day %	Eve %	Night %	% Med. Trucks	% Hvy. Trucks	Speed	Distance	Offset (dB)	Contours (ft.) - No Offset 60 dBA	65 dBA	70 dBA	Level, dBA
1	Roth Rd.	East of Manthey Rd.	1,310	72	0	28	1.0%	1.0%	45	80	0	50	23	11	56.9
2	Manthey Rd.	South of Roth Rd.	1,290	72	0	28	1.0%	1.0%	50	200	0	59	27	13	52.0
3	SB I-5 Off Ramp	North of Roth Rd.	630	72	0	28	1.0%	1.0%	55	50	0	43	20	9	59.0
4	SB I-5 On Ramp	South of Roth Rd.	640	72	0	28	1.0%	1.0%	45	50	0	31	14	7	56.9
5	NB I-5 On Ramp	North of Roth Rd.	670	72	0	28	1.0%	1.0%	45	80	0	32	15	7	54.0
6	NB I-5 Off Ramp	South of Roth Rd.	560	72	0	28	1.0%	1.0%	55	140	0	40	18	9	51.8
7	Roth Rd.	East of Harlan Rd.	2,200	72	0	28	1.0%	1.0%	50	45	0	84	39	18	64.1
8	Harlan Rd.	South of Roth Rd.	755	72	0	28	1.0%	1.0%	45	40	0	34	16	7	59.0
9	Manthey Rd.	South of Project Driveway	1,050	72	0	28	1.0%	1.0%	45	200	0	43	20	9	50.0

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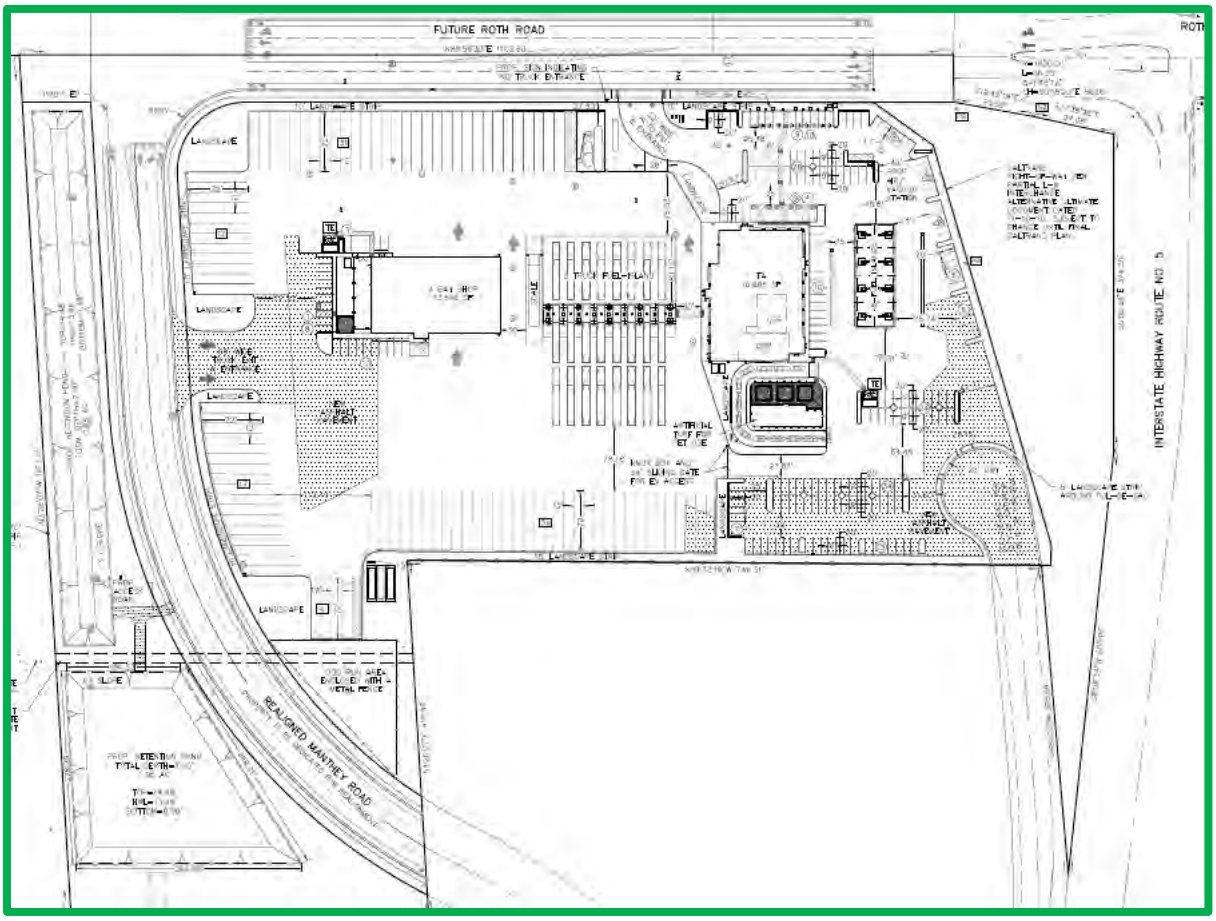
APPENDIX G

Transportation Analysis Report

The Singh Petroleum Investments Project Transportation Analysis Report - Final



Prepared for:
De Novo Planning Group
City of Lathrop

August 23, 2023

RS22-4159

FEHR PEERS

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1. Introduction

This study addresses potential transportation impacts associated with the proposed Singh Petroleum Investments Project located on the south-west corner of the Roth Road / Manthey Road intersection in the City of Lathrop, California. This Transportation Analysis Report documents the methodologies, inputs, and results of the vehicle miles traveled, passenger vehicle and truck trip generation, intersection operations, safety, and site access.

1.1 Project Description

The Project site includes approximately 19.63 acres located in the north-west area of the City of Lathrop, west of Interstate 5 and south on Roth Road. The Project site is identified as Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, by the San Joaquin County Assessor's Office. The Project site is bounded by Roth Road to the north, Interstate 5 and Manthey Road to the east, and low density / residential / agricultural land to the west and south. **Figure 1** shows the location of the project site.

The proposed Project includes an 8-island (16 position) fueling station for passenger cars and trucks, an 16,668 square foot retail / convenience store that includes a quality sit-down restaurant (QSR) with a drive-thru lane that includes stacking space for up to 12 vehicles, an 8-truck fuel island, and a 13,846 square foot truck service / repair facility. The proposed project would provide a total of 176 regular vehicle parking spaces, seven (7) disables access and 20 compact parking spaces for passenger cars and trucks. As part of the parking supply, a total of nine (9) standard electric vehicle and one (1) van electric vehicle charging stations will be provided. In addition to these passenger vehicle spaces, a total of 98 truck/trailer parking spaces will be provided behind the store building on the west side of the project site.

Under Near-term conditions, access to the project site would be provided via two (2) full-access driveways on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Act (STAA) trucks. Two outbound (right-turn only) driveways would be provided on the extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal STAA trucks. **Figure 2** displays the near-term project site plan and access driveways.

Under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on Roth Road, approximately 400 feet west of the Roth Road / Manthey Road intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. Lastly, the current Manthey Road would be cul-de-sac'd and not provide any access to the project site. **Figure 3** displays the cumulative project site plan and access driveways.

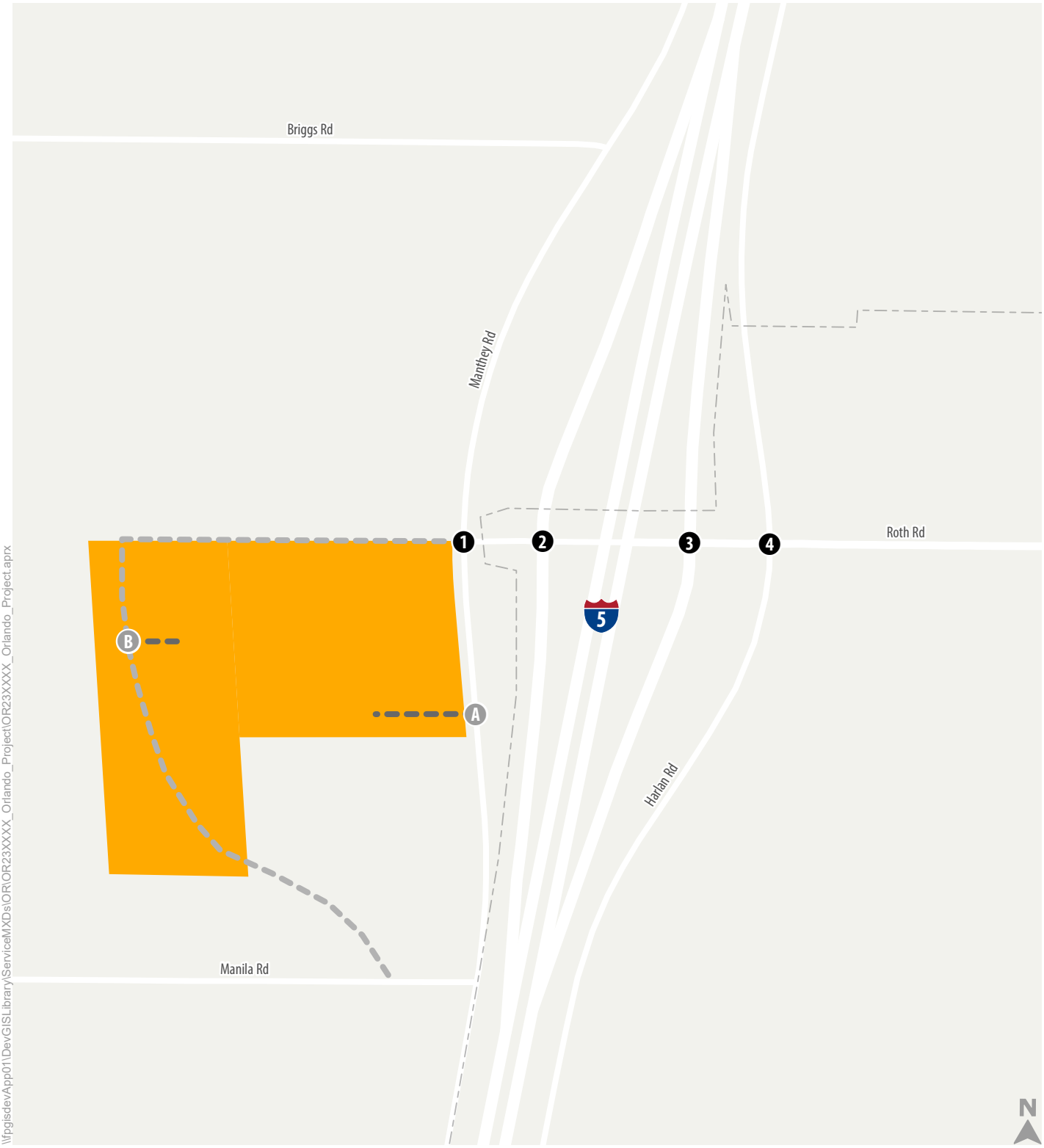


Figure 1

Project Study Area

Figure 2

Near-Term Project Site Plan

N:\InsertFilePath

Figure 3

Cumulative Project Site Plan

2. Vehicle Miles Traveled

This chapter describes the significance criteria and the methodology used to evaluate project impacts related to vehicle miles traveled.

2.1 Applicable Policies and Significance Criteria

Vehicle Miles Traveled

Senate Bill (SB) 743 was signed into law in 2013 and resulted in a substantial change in the way transportation impact analyses are being prepared. Notably, it precludes the use of level of service (LOS) to identify significant transportation impacts in CEQA documents for land use projects, with SB 743 recommending that vehicle miles traveled (VMT) be used as the preferred metric.

On December 28, 2018, the CEQA Guidelines were amended to add Section 15064.3, Determining the Significance of Transportation Impacts, which states that generally, VMT is the most appropriate measure of transportation impacts. According to 15064.3(a), "Except as provided in subdivision (b)(2) (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact." Beginning on July 1, 2020, the provisions of 15064.3 applied statewide.

To 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).[1] The *Technical Advisory* helps lead agencies think about the variety of implementation questions they face with respect to shifting to a VMT metric. However, the guidance is not a recipe for SB 743 implementation; lead agencies must still make their own specific decisions about methodology, thresholds, and mitigation.

The City of Lathrop adopted thresholds of significance and screening criteria for the purpose of analyzing transportation impacts under the California Environmental Quality Act (CEQA) related to vehicle miles Traveled (VMT) on September 20, 2020 and in the City of Lathrop General Plan Update (September 2022) Circulation Element. The methodology and thresholds identified in Attachment 2 in Resolution No. 20-4784 will be applied to the Singh Petroleum Investments Project to determine if the proposed project would result in a CEQA VMT impact.

The City's guidelines identify VMT per employee as the VMT metric for retail / commercial land uses. VMT per retail employee includes VMT associated with trips produced by a proposed project on a typical weekday. The VMT Guidelines also identify a proposed project resulting in a net increase in existing city-wide VMT per employee would indicate a significant transportation impact. This metric reflects the nature of most local-serving retail to distribute existing vehicle trips and serve both pass-by and diverted vehicle trips, rather than generate or inducing all new vehicle trips to and from the project site.

[1] http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

2.2 VMT Analysis Methodology

As part of the City of Lathrop General Plan Update project, Fehr & Peers developed the City of Lathrop, Manteca and Ripon Travel Forecasting Model (Three City TFM). The Three City TFM is a modified version of the Three-County RTP/SCS Air Quality Conformity Model, with improvements to all major components (transportation network, land use, and trip-generation rates) focused on this three-city area. Each scenario of the TFM used for VMT forecasting is described below.

Baseline Year (2019) TFM

The Base Year TFM developed for the General Plan Update was used to develop Baseline city-wide average weekday daily VMT per employee for all retail / commercial projects in the City of Lathrop. It should be noted that the use of VMT per employee is the standard methodology used to evaluate potential SB 743 VMT impacts. The Baseline Year TFM incorporates Base Year land use data for dwelling units (single-family and multi-family) and employment (food, retail, office, industrial, medical, government, and school), as well as the roadway network (travel lanes, speed, capacity class), based on Base Year (i.e., 2019) data. The Three City TFM vehicle trip generation rates were derived from the Institute of Transportation Engineer's (ITE) Trip Generation Manual and include inbound/outbound trip generation rates for residential and employment land uses for Daily, AM and PM peak hour conditions.

The Three City TFM was calibrated to reflect more accurate trip distribution for Internal-to-Internal Trips (II), Internal-to-External Trips (IX), External-to-Internal Trips (XI) and External-to-External (XX or Through) Trips based on a combination of the Caltrans Household Travel Survey (CHTS), the American Community Survey (ACS), and California Statewide Model to replicate the majority of vehicle trips traveling to and from the west (Metropolitan San Francisco Bay Area) and a smaller percentage to and from the north (including Stockton and Sacramento) and the smallest percentage to and from the south (I-5 corridor).

The existing (baseline) city-wide average VMT per employee was determined to be 135.3 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

Cumulative Adopted (September 2022) General Plan Buildout Scenario TFM

The City of Lathrop updated its General Plan, and the Three City TFM was used to estimate the Project's weekday daily home-based VMT per retail employee under cumulative Adopted General Plan Buildout conditions. This scenario of the TFM incorporates land use data (dwelling units and employment) and reflects the City of Lathrop's jobs-housing balance, II, IX, XI, and XX trips under cumulative conditions where the City of Lathrop General Plan is built out.

This scenario also incorporates roadway network (lanes, speed, capacity class) based on the adopted City of Lathrop General Plan, the City of Lathrop Capital Improvement Program (CIP), and the San Joaquin Council of Government (SJCOG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) Project List.

The cumulative (general plan) city-wide average VMT per employee was determined to be 211.5 miles per employee and is based on all types of employment (food, retail, office, industrial, medical, government, and school) in the City of Lathrop.

2.3 VMT Impact Analysis

As discussed earlier in this chapter, the proposed Project would result in a significant transportation impact if the proposed project would result in a net increase in Baseline (existing) Lathrop city-wide VMT by employee or Cumulative Lathrop city-wide VMT by employee.

Table 1 presents the established city-wide VMT and the Project generated VMT under baseline and cumulative conditions. VMT generated by the Project is compared to the baseline city-wide average VMT per employee. As discussed in Chapter 5, the proposed Singh Petroleum Investments Project would result in a combination of net new, pass-by and diverted vehicle trips and associated VMT per employee.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work and represent approximately 20% of the daily VMT.

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project and represent approximately 15% of the daily VMT.

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project and represent approximately 65% of the daily VMT.

Table 1: Vehicle Miles Traveled (VMT) Analysis – Project-Generated VMT

Scenario	VMT per Retail Employee	Compared to Baseline City-wide Average Without Singh Petroleum Investments Project
Existing (Baseline) City-wide Average	135.3	-
Singh Petroleum Investments Project – Existing (Baseline) Conditions Net New Trips – 20% - VMT of 135.3 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	27.8	- 79.5%
Cumulative Lathrop General Plan Update	211.5	
Singh Petroleum Investments Project - Cumulative Lathrop General Plan Update Net New Trips – 20% - VMT of 195.2 miles per retail employee Pass-By Trips – 15% - VMT of 0.2 miles from Manthey Road Diverted Trips – 65% - VMT of 1.1 miles from I-5	43.1	- 79.6%

Source: City of Lathrop Travel Demand Model - Fehr & Peers, 2023

As displayed, under Existing (Baseline) Conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

The Adopted (September 2022) General Plan Update includes a substantial increase in both employment and retail land uses, which would allow residents to travel shorter distances to access jobs and local services without the need to travel outside of the City of Lathrop. To complement this increase in employment, the City of Lathrop General Plan also includes a substantial increase in residential projects (single-family and multi-family dwelling units) that would complement the employment and retail land uses by supplying workers (employees) and patrons (shoppers) to businesses. The improved jobs-housing balance under the cumulative scenario is consistent with the City's vision for future development of providing local services for a growing population.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be less-than-significant.

3. Intersection Operations Analysis

This chapter describes the significance criteria and methodology used to analyze the study intersections identified below, and methodology used to develop traffic forecasts for study intersections.

3.1 Study Area

The study area was selected based on the Project's location, site access, and anticipated trip distribution and assignment to the surrounding transportation system. The analysis considers traffic operations at the following intersections, which are displayed in Figure 1.

Study Intersections

1. Manthey Road / Roth Road;
2. Southbound Interstate 5 On/Off-Ramps / Roth Road;
3. Northbound Interstate 5 On/Off-Ramps / Roth Road; and
4. Harlan Road / Roth Road.

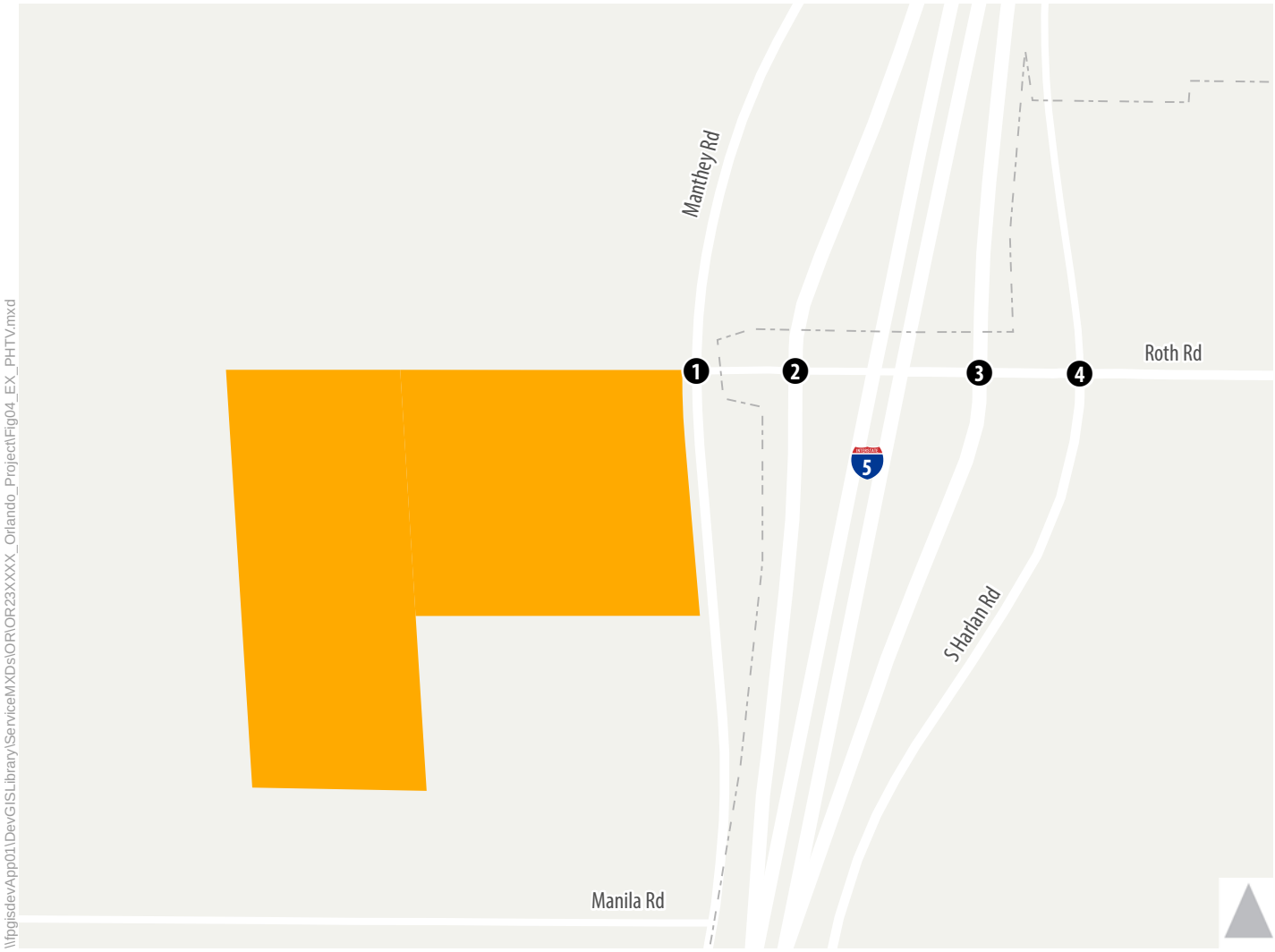
Study Scenarios

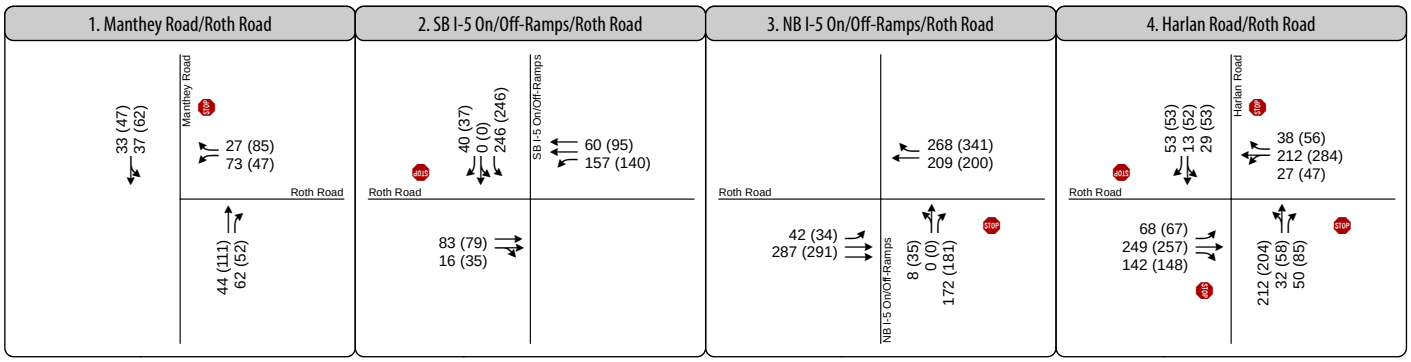
The study intersections were evaluated for the following four scenarios:

- **Existing Conditions** – Analyzes operations as they exist today (Spring 2023).
- **Existing Plus Project Conditions** – Analyzes existing operations with the addition of trips generated by the proposed Singh Petroleum Investments Project. The Base Year TFM developed for the General Plan Update was used to develop project trip distribution during the AM peak hour and PM peak hour.
- **Cumulative No Project Conditions** - Analyzes Year 2040 volumes based on the City of Lathrop. Manteca, and Ripon Travel Forecasting Model (Three City TFM), assuming the project site remains in its current undeveloped state.
- **Cumulative Plus Project Conditions** – Analyzes Year 2040 volumes with the addition of trips generated by the proposed Singh Petroleum Investments Project.

3.2 Data Collection

Traffic count data at the four (4) study intersections was collected by the City of Lathrop for their Traffic Monitoring Program and provided for use as Existing weekday morning (AM) and evening (PM) peak hour turning movement volumes. Intersection turning movement counts were conducted during the AM (7:00 to 9:00) and PM (4:00 to 6:00) peak periods. **Figure 4** displays the existing weekday AM and PM peak hour intersection turning movement counts at the study intersections.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 4

Peak Hour Traffic Volumes and Lane Configurations - Existing Conditions

3.3 Analysis Methodology

Level of Service

Study intersections were analyzed using procedures and methodologies contained in the Highway Capacity Manual – 7th Edition (Transportation Research Board, 2022). These methodologies were applied using Synchro/SimTraffic 11 software which considers traffic volumes, lane configurations, intersection control type, signal timings (as applicable), and other pertinent parameters of intersection operations.

As previously noted, Level of Service (LOS) may no longer be used to identify significant transportation impacts in CEQA documents for land use projects. However, this analysis includes an LOS analysis to determine if the proposed project would result in deficient intersection operations per the City of Lathrop standards. Policy CIR-1.3 of the 2022 General Plan strives for LOS D or better within the City, except where maintaining such levels of service is infeasible.

LOS is a qualitative measure of traffic operating conditions whereby a letter grade, from A (the best) to F (the worst), is assigned. These grades represent the perspective of drivers and are an indication of the comfort and convenience associated with driving. In general, LOS A represents free-flow conditions with no congestion, and LOS F represents severe congestion and delay under stop-and-go conditions. For signalized intersections, roundabouts and all way stop control intersections, LOS is based on the average delay experienced by all vehicles passing through the intersection. For side-street stop-controlled intersections, the delay and LOS for the overall intersection is reported along with the delay for the stop controlled movements. **Table 2** displays the delay range associated with each LOS category for signalized and unsignalized intersections.

Table 2: Intersection Level of Service (LOS) Criteria			
LOS	**Description (for Signalized Intersections)**	**Average Delay (Seconds/Vehicle) at Signalized Intersections**	**Average Delay (Seconds/Vehicle) at Unsignalized Intersections**
A	Operations with very low delay occurring with favorable traffic signal progression and/or short cycle lengths.	< 10.0	< 10.0
B	Operations with low delay occurring with good progression and/or short cycle lengths.	> 10.0 to 20.0	> 10.0 to 15.0
C	Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	> 20.0 to 35.0	> 15.0 to 25.0
D	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	> 35.0 to 55.0	> 25.0 to 35.0
E	Operations with high delay values indicating poor progression, and long cycle lengths. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	> 55.0 to 80.0	> 35.0 to 50.0
F	Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths.	> 80.0	> 50.0
Note: LOS = level of service; V/C ratio = volume-to-capacity ratio Source: Transportation Research Board, 2022			

Traffic Volume Forecasting

Existing (Base Year) Three City Travel Forecasting Model

The Existing (Base Year) Three City TFM developed for the General Plan Update, as described in Chapter 2, was used to develop trip distribution under Existing Plus Project conditions. The traffic forecasting adjustment procedure known as the "difference method" was used to develop Cumulative No Project conditions AM and PM peak hour traffic forecast.

For a given intersection, this forecasting procedure is calculated as follows for every movement at the study intersections:

Cumulative Year No Project Forecast =
Existing Volume + (Year 2040 TFM Volume – Existing (Base Year) TFM Volume)

Approved General Plan Update (Year 2040) Scenario TFM

The Approved General Plan Update (Year 2040) TFM was developed based on projected future land use and transportation network for the City of Lathrop and adjacent City of Manteca and City of Ripon. Similar to other cities in the Central Valley region, the City of Lathrop is projecting major growth for both housing (population) and employment (jobs) in the General Plan Buildout scenario. The Year 2040 model scenario was developed in coordination with both the City of Lathrop and City of Manteca to ensure that the TFM represents market-based demand for future growth in both housing (population) and employment (jobs), and therefore does not underestimate or overestimate traffic demand volumes.

The City of Lathrop 2040 land use inputs were developed based on the City of Lathrop's approved and anticipated projects that will be constructed and occupied by year 2040. The City of Manteca 2040 land use inputs was also developed based on the City of Manteca's approved and anticipated projects that will be constructed and occupied by year 2040.

The Approved General Plan Update (Year 2040) 2040 TFM was updated to reflect the proposed Singh Petroleum Investments Project and two other projects located south of the Manthey Road / Roth Road intersection. The traffic forecasting adjustment procedure known as the "difference method" was used to develop Year 2040 AM and PM peak hour traffic forecasts.

For a given intersection, this forecasting procedure is calculated as follows for every movement at the study intersections:

Cumulative Year With Project Forecast =
Existing Volume + (Year 2040 TFM Volume – Existing (Base Year) TFM Volume)

4. Existing Conditions

This chapter presents the existing bicycle, pedestrian, and transit facilities and intersection operations under Existing Conditions.

4.1 Existing Bicycle and Pedestrian Facilities

The following sections define bicycle facility types:

Class I Bikeway: Bike Path

Bike paths, often referred to as shared-use paths or trails, are off-street facilities that provide exclusive use for non-motorized travel, including bicyclists and pedestrians. Bike paths have minimal cross flow with motorists and are typically located along landscaped corridors.

Class II Bikeway: Bike Lane

Class II bike lanes are on-street facilities that use striping, stencils, and signage to denote preferential or exclusive use by bicyclists. On-street bike lanes are located adjacent to motor vehicle traffic.

Class III Bikeway: Bike Route

Class III bike routes are streets with signage and optional pavement markings where bicyclists travel on the shoulder or share a lane with motor vehicles. Class III bike routes are utilized on low-speed and low-volume streets to connect bike lanes or paths along corridors that do not provide enough space for dedicated lanes.

Class III Bikeway: Bicycle Boulevard

Class III bicycle boulevards are similar to Class III bike routes, in that they are primarily utilized on low-speed and low-volume streets, and can close important gaps in the bicycle network where there may be insufficient space for dedicated lanes. Bicycle boulevards provide further enhancements to bike routes to encourage slow speeds and discourage non-local vehicle traffic via traffic diverters, chicanes, traffic circles, and/or speed tables.

Class IV Bikeway: Separated Bikeway

Class IV separated bikeways, commonly known as cycle tracks, are physically separated bicycle facilities that are distinct from the sidewalk and designed for exclusive use by bicyclists. They are located within the street right-of-way, but provide comfort similar to Class I bike paths.

Pedestrian facilities include sidewalks along roadways, crosswalks at intersections, and pedestrian push buttons and pedestrian signal timings at signalized intersections.

There are currently no bicycle or pedestrian facilities on Manthey Road, Roth Road, or Harlan Road in the project study area.

4.2 Existing Transit Service and Facilities

Route 90 connects Lathrop to Stockton and Tracy with service weekdays, once in the morning and once in the afternoon both northbound and southbound. A stop is provided on Louise Avenue at Harlan Road and 5th Street at the Lathrop Community Center.

Route 150 provides commuter service from Lathrop to the Dublin/Pleasanton BART station with seven departures every day. One stop is provided at the Crossroads Shopping Center on Harlan Road south of Lathrop Road.

Van Go! on-demand rideshare service provides travel anywhere withing the county with a 48-hour reservation from 8 AM to 5 PM seven days a week.

There is currently no local or regional transit stop in the vicinity of the project site.

4.3 Existing Intersection Operations

Table 3 displays the existing AM and PM peak hour operations at the study intersections. Technical calculations are displayed in **Appendix A**.

Table 3: Intersection Operations – Existing Conditions

Intersection	Control Type	AM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	4.7 (WB LT) 0.8 (WB RT) 1.8 (Entire)	A A A	6.1 (WB LT) 1.1 (WB RT) 1.8 (Entire)	A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (SB LT) 3.8 (SB RT) 5.6 (Entire)	B A A	10.5 (SB LT) 3.8 (SB RT) 5.1 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	9.8 (NB LT) 5.1 (NB RT) 2.9 (Entire)	A A A	11.2 (NB LT) 12.5 (NB RT) 5.1 (Entire)	B B A
4. Harlan Road / Roth Road	AWSC	10.7	B	26.2	C

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control AWSC = All-Way Stop Control
Source: Fehr & Peers, 2023

Under both Existing AM and PM Peak Hour Conditions, all three (3) side-street stop controlled intersections operate at acceptable LOS A or B conditions. The all-way stop controlled Harlan Road / Roth Road intersection operates at acceptable LOS B conditions during Existing AM Peak Hour Conditions, and acceptable LOS C conditions during Existing PM Peak Hour Conditions.

5. Existing Plus Project Conditions

This chapter presents the results of trip generation, distribution of traffic and intersection operations analysis under Existing Plus Project conditions.

5.1 Project Trip Generation

The Project's trip generation was estimated using trip rates published in the *Trip Generation Manual 11th Edition* (Institute of Transportation Engineers, 2021). **Table 4** displays the estimated gross total number of Daily (4,576 vehicle trips), AM peak hour (208 vehicle trips), and PM peak hour (280 vehicle trips) that are comprised of passenger cars/trucks and California legal and STAA trucks for the proposed Singh Petroleum Investments Project. It should be noted that Table 4 includes an approximately 24% internalization rate, which is defined as the percentage of customers that would purchase both gas/diesel and food, snacks, coffee, etc. in the retail store.

Table 4: Summary of Project Trip Generation

Land Use	Quantity	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	16,688 square feet	728	44	22	22	58	29	29
Gasoline Pumps / Service Station (ITE Land Use Code 944)	16 Fueling Positions	2,064	124	62	62	166	83	83
Diesel Pumps / Service Station (ITE Land Use Code 944)	8 Fueling Positions	516	30	15	15	42	21	21
Truck Repair (ITE Land Use Code 943)	13,846 square feet	182	10	5	5	14	7	7
Total		3,490	208	104	104	280	140	140

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 5 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for Weekday Daily (24 Hour) Conditions. The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work and represent approximately 20% of the daily trip generation.

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project and represent approximately 15% of the daily trip generation.

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project and represent approximately 65% of the daily trip generation.

Table 5: Daily (24 Hour) Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	72	72	144	55	55	110	236	236	472
Gasoline Pumps / Service Station (ITE Land Use Code 944)	206	206	412	155	155	310	671	671	1,342
Diesel Pumps / Service Station (ITE Land Use Code 944)	52	52	104	39	39	78	168	168	336
Truck Repair (ITE Land Use Code 943)	18	18	36	14	14	28	59	59	118
Total Passenger Cars and Trucks	278	278	556	210	210	420	907	907	1,814
Total CA Legal and STAA Trucks	70	70	140	53	53	106	227	227	454
Total Vehicles	349	349	696	263	263	526	1,134	1,134	2,268

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 6 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for AM Peak Hour Conditions.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work, resulting in 44 vehicle trips (21% of all trips generated).

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project, resulting in 30 vehicle trips (14% of all trips generated).

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project, resulting in 134 vehicle trips (65% of all trips generated).

Table 6: AM Peak Hour Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	5	5	10	3	3	6	14	14	28
Gasoline Pumps / Service Station (ITE Land Use Code 944)	13	13	26	9	9	18	40	40	80
Diesel Pumps / Service Station (ITE Land Use Code 944)	3	3	6	2	2	4	10	10	20
Truck Repair (ITE Land Use Code 943)	1	1	2	1	1	2	3	3	6
Total	22	22	44	15	15	30	67	67	134

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

Table 7 displays the estimated net new, pass-by and diverted number of peak hour vehicle trips (passenger cars/trucks and California legal and STAA trucks) for the proposed Singh Petroleum Investments Project for PM Peak Hour Conditions.

The definition of net new trips are vehicle trips that have the sole purpose of traveling to and from the proposed project from either home or work, resulting in 56 vehicle trips (20% of all trips generated).

The definition of pass-by trips are vehicle trips that are already on Manthey Road and decide to stop at the proposed project, resulting in 40 vehicle trips (14% of all trips generated).

The definition of diverted trips are vehicle trips that are already on Interstate 5 and decide to stop at the proposed project, resulting in 184 vehicle trips (66% of all trips generated).

Table 7: PM Peak Hour Project Trip Generation

Land Use	Net New Trips			Pass-By Trips (Vehicles on Manthey Road)			Diverted Trips (Vehicles on Interstate 5)		
	In	Out	Total	In	Out	Total	In	Out	Total
Retail Commercial (ITE Land Use Code 822)	6	6	12	4	4	8	19	19	38
Gasoline Pumps / Service Station (ITE Land Use Code 944)	17	17	34	12	12	24	54	54	108
Diesel Pumps / Service Station (ITE Land Use Code 944)	4	4	8	3	3	6	14	14	28
Truck Repair (ITE Land Use Code 943)	1	1	2	1	1	2	5	5	10
Total	28	28	56	20	20	40	92	92	184

Notes:
Trip generation is based on trip rates published in *Trip Generation Manuel 11th Edition* (Institute of Transportation Engineers, 2021).
Source: Fehr & Peers, 2023

5.2 Project Trip Distribution

Project trips were distributed throughout the study area based on the existing and future transportation system, directional travel patterns entering and exiting driveways serving the project site, and output from the Existing Base Year TFM and Cumulative Year TFM. **Figure 5** presents project trip distribution. It should be noted that California legal and STAA trucks are prohibited from using Golden Valley Parkway, Spartan Road and the I-5 / Lathrop Road interchange. Therefore, California legal and STAA trucks are required to use Manthey Road and the I-5 / Roth Road interchange and the pass-by, diverted and net new trip distribution for project-generated traffic includes this requirement for California legal and STAA trucks. The primary results of the trip distribution analysis are:

- The majority of project-generated traffic are diverted trips to and from I-5 and represent 66% of all trips (with 33% from northbound I-5 and 33% from southbound I-5);
- For net new trips, they represent 20% of all trips (with 10% from Harlan Road south of Roth Road, 9 % from Roth Road east of Harlan Road and 1% from Harlan Road north of Roth Road); and
- The remaining 14% are pass-by trips already on Manthey Road that decide to stop at the proposed project.

Figure 6 displays the traffic volumes under Existing Plus Project conditions for the following study intersections:

1. Manthey Road / Roth Road;
2. Southbound Interstate 5 On/Off-Ramps / Roth Road;
3. Northbound Interstate 5 On/Off-Ramps / Roth Road;
4. Harlan Road / Roth Road;
5. Manthey Road / Project Driveway.

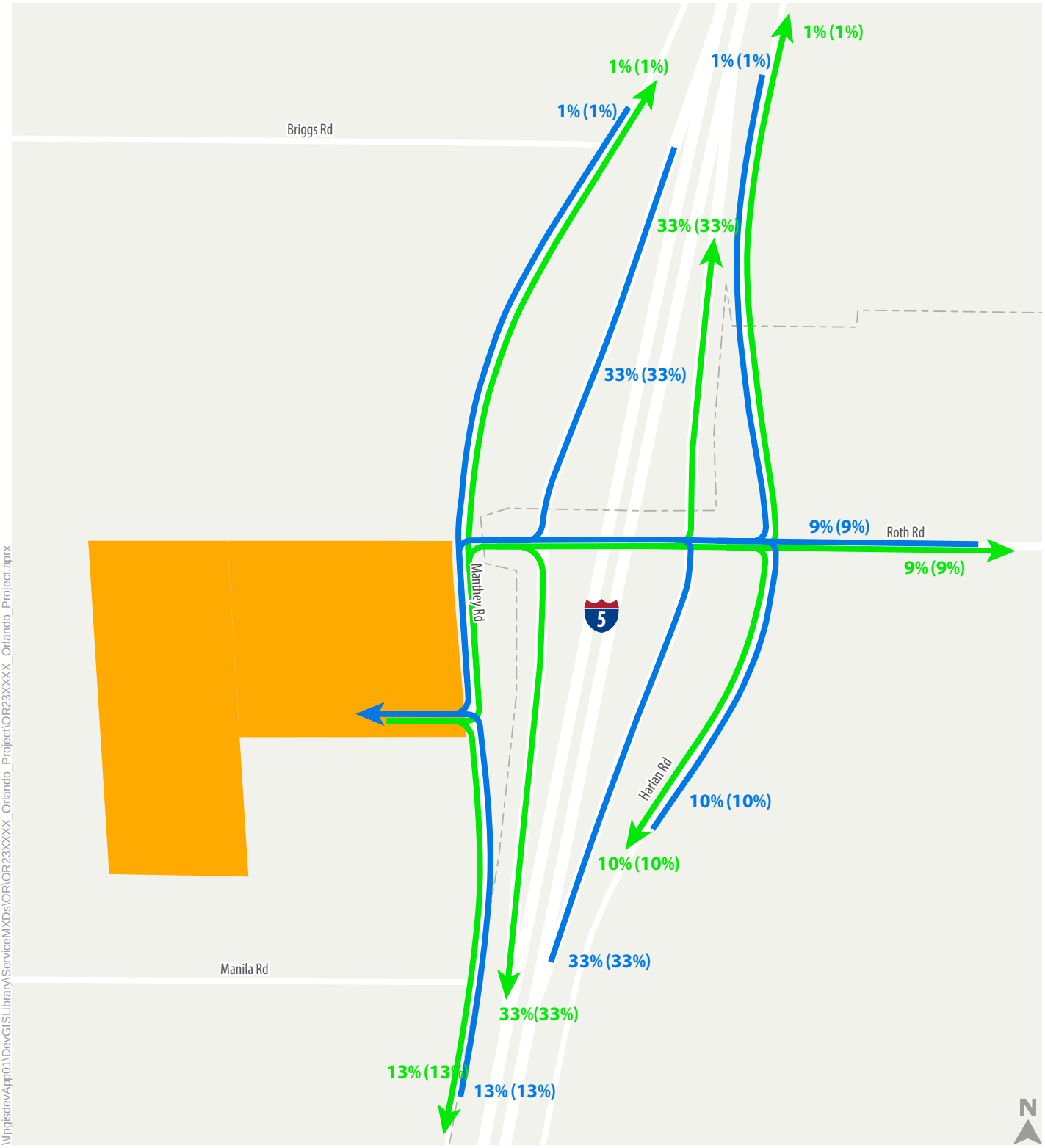


Figure 5

Project Trip Distribution

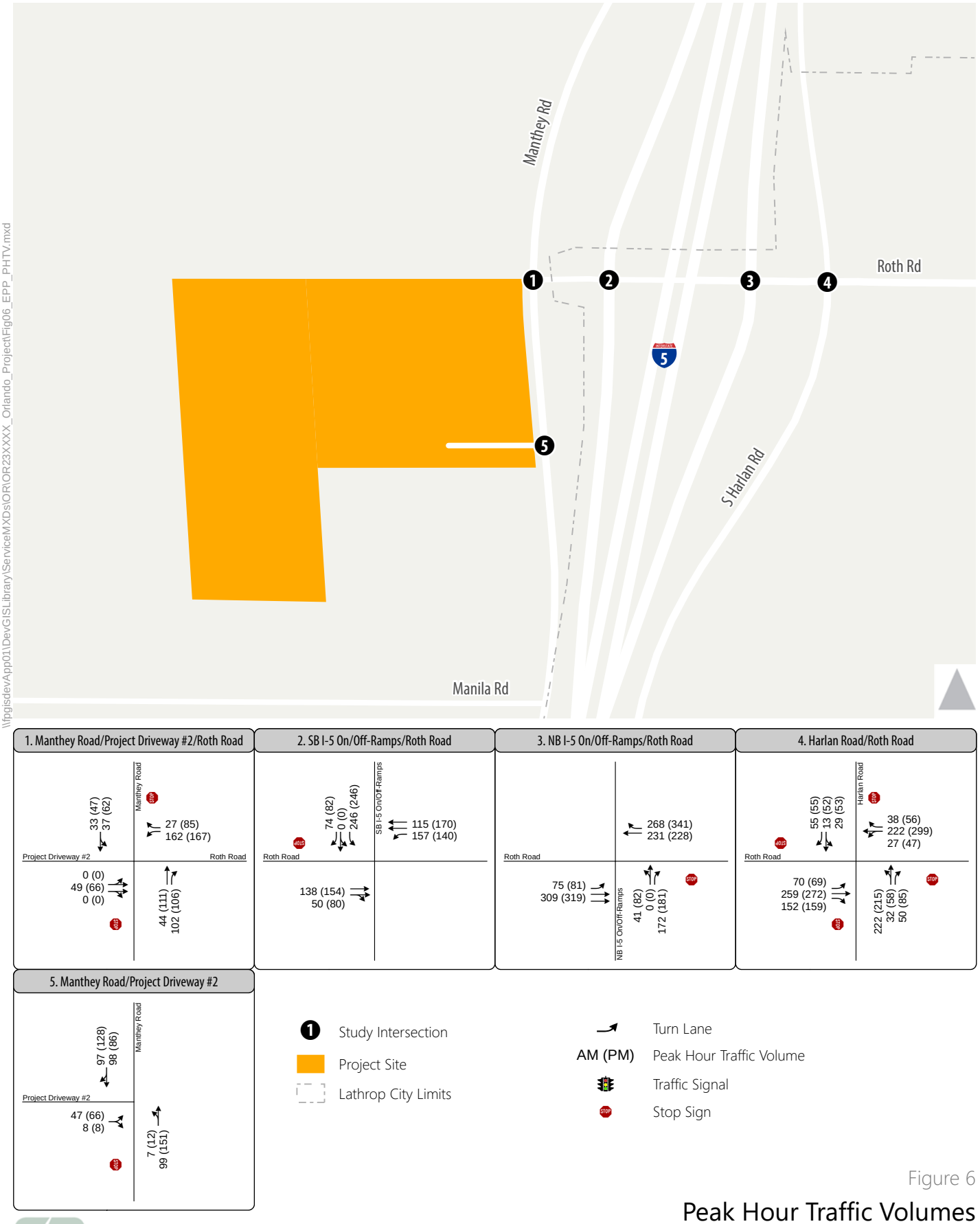


Figure 6

Peak Hour Traffic Volumes and Lane Configurations - Existing Plus Project Conditions

5.3 Existing Plus Project Intersection Operations

Under Near-term conditions, access to the project site would be provided via two (2) full-access driveways on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Act (STAA) trucks. Two outbound (right-turn only) driveways would be provided on the extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal STAA trucks. **Table 8** displays the AM peak hour intersection operations under Existing Plus Project conditions. Technical calculations are displayed in **Appendix B**.

Table 8: Intersection Operations – Existing Plus Project AM Peak Hour Conditions

Intersection	Control Type	Existing Conditions		Existing Plus Project Conditions	
		AM Peak Hour		AM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	4.7 (WB LT) 0.8 (WB RT) 1.8 (Entire)	A A A	6.8 (EB TH) 5.8 (WB LT) 0.8 (WB RT) 3.3 (Entire)	A A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (SB LT) 3.8 (SB RT) 5.6 (Entire)	B A A	14.0 (SB LT) 4.7 (SB RT) 6.0 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	9.8 (NB LT) 5.1 (NB RT) 2.9 (Entire)	A A A	15.0 (NB LT) 5.5 (NB RT) 3.5 (Entire)	B A A
4. Harlan Road / Roth Road	AWSC	10.7	B	11.4	B
5. Manthey Road / Project Driveway #1	SSSC	Intersection does not exist in this scenario		5.3 (EB LT) 3.3 (EB RT) 1.8 (Entire)	A A A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control AWSC= All-Way Stop Control
Source: Fehr & Peers, 2023

Under Existing Plus Project AM Peak Hour Conditions, all three (3) side-street stop controlled intersections would continue to operate at acceptable LOS A or B conditions . The all-way stop controlled Harlan Road / Roth Road intersection would also continue to operate at acceptable LOS B conditions during Existing Plus Project AM Peak Hour Conditions. The new Manthey Road / Project Driveway #1 driveway intersection would also operate at LOS A conditions as passenger cars and trucks enter and exit the project site.

Table 9 displays the PM peak hour intersection operations under Existing Plus Project conditions. Technical calculations are displayed in **Appendix B**.

Table 9: Intersection Operations – Existing Plus Project PM Peak Hour Conditions					
Intersection	**Control Type**	**Existing Conditions**		**Existing Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Project Driveway #2 Roth Road	SSSC	6.1 (WB LT) 1.1 (WB RT) 1.8 (Entire)	A A A	9.0 (EB TH) 8.5 (WB LT) 1.1 (WB RT) 4.0 (Entire)	A A A A
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	10.5 (SB LT) 3.8 (SB RT) 5.1 (Entire)	B A A	15.8 (SB LT) 5.4 (SB RT) 6.3 (Entire)	B A A
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	11.2 (NB LT) 12.5 (NB RT) 5.1 (Entire)	B B A	20.0 (NB LT) 8.9 (NB RT) 5.3 (Entire)	C A A
4. Harlan Road / Roth Road	Signal	26.2	C	30.0	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		5.7 (EB LT) 3.7 (EB RT) 2.0 (Entire)	A A A
Notes: **Bold** indicates deficient operations. SSSC = Side-Street Stop Control Source: Fehr & Peers, 2023					

Under Existing Plus Project PM Peak Hour Conditions, all three (3) side-street stop controlled intersections would continue to operate at acceptable LOS A/B/C conditions . The signalized Harlan Road / Roth Road intersection would also continue to operate at acceptable LOS C conditions during Existing Plus Project PM Peak Hour Conditions. The new Manthey Road / Project Driveway #1 driveway intersection would also operate at LOS A conditions as passenger cars and trucks enter and exit the project site. Based on results of the intersection operations analysis, review of the site plan, and adjacent land uses on Manthey Road, the following Conditions of Approval (COA) are recommended.

Traffic COA #1 – The proposed project will coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection.

Traffic COA #2 – The proposed project will coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided.

6. Cumulative Conditions Analysis

This chapter presents the results of intersection operations analysis under Cumulative (Year 2040) conditions. The analysis reflects long-term development in the City of Lathrop and other nearby jurisdictions using the General Plan Three City TFM previously described in Chapters 2 and 3. The Cumulative Year analysis assumes the following improvements:

- Interstate 5 / Roth Road interchange – In the 2022 SJCOG Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) Document, the I-5 at Roth Road interchange (Project SJ11-2004) would be modified to provide operational (traffic signals) and capacity (through lanes and turn pockets) improvements to serve projected traffic volumes from the City of Lathrop, City of Manteca, San Joaquin County, and City of Stockton. The City of Lathrop is coordinating with SJCOG to identify the timeline for construction of the improvements, opening year and funding sources.

- Roth Road Corridor Study – The San Joaquin Council of Governments (SJCOG), in collaboration with San Joaquin County, the City of Lathrop, and the City of Manteca are conducting a study to prioritize system improvements to address critical multimodal travel needs within the greater Roth Road Corridor. The improvement package will accommodate growing truck traffic served by Roth Road, which is a primary route to access Interstate 5 (I-5). This includes the expansion of the Union Pacific Intermodal Facility that will nearly triple daily average truck round trips. The Defense Depot of San Joaquin Sharp Facility and CenterPoint also contribute significant truck traffic. There are several at-grade rail crossings along Roth Road that will experience heavier truck volumes, and have higher rail activity. The purpose of the Study is to identify traffic improvements to the Roth Road Corridor. The Study is currently being drafted and being reviewed by the participating agencies.

- Harlan Road Realignment Project (East of Interstate 5) - The proposed City of Lathrop project will realign Harlan Road 600' east of the current intersection with Roth Road to provide more space between Interstate 5 (I-5) and the intersection of Harlan Road and Roth Road. This realignment will also include a traffic signal at the intersection as well as accommodate future interchange improvements. The Precise Plan will include three (3) travel lanes and a center two-way left turn lane south of Roth Road and two (2) travel lanes with a center striped median north of Roth Road. The existing Harlan Road intersection will be converted to a cul-de-sac on the south side and a dead-end on the north side of Roth Road. Access will be maintained to the existing properties on Harlan Road. The Harlan Road Realignment Project is part of the City's Capital Improvement Plan (CIP) (CIP PS 14-04) and is partially funded via City Impact Fees, including the North Lathrop Transportation Impact fee (NLTIF). The Precise Plan and associated Initial Study / Mitigated Negative Declaration was approved by Lathrop's City Council on March 8, 2021.

- Manthey Road Realignment. The City of Lathrop project will realign Manthey Road west and provide more space between Interstate 5 (I-5) and the intersection of Manthey Road and Roth Road to accommodate future interchange improvements. The Precise Plan has not been adopted and funding is uncertain for this project.

6.1 Cumulative No Project Intersection Operations

Cumulative no project forecasts for this study were developed by subtracting project trips from the "plus project" scenario. As discussed in the previous section, the City of Lathrop is coordinating with SJCOG to identify the timeline for construction of the improvements, opening year and funding sources. Therefore, the I-5 / Roth Road interchange was analyzed as an improved tight diamond interchange with the following intersection control options:

- Side-street stop control for both the NB and SB I-5 ramp terminal intersections;
- All-way stop control for both the NB and SB I-5 ramp terminal intersections; and
- Signal control for both the NB and SB I-5 ramp terminal intersections.

Figure 7 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with side-street stop control for both the NB and SB I-5 ramp terminal intersections. **Table 10** displays the AM and PM peak hour Cumulative No Project intersection operations side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix C**.

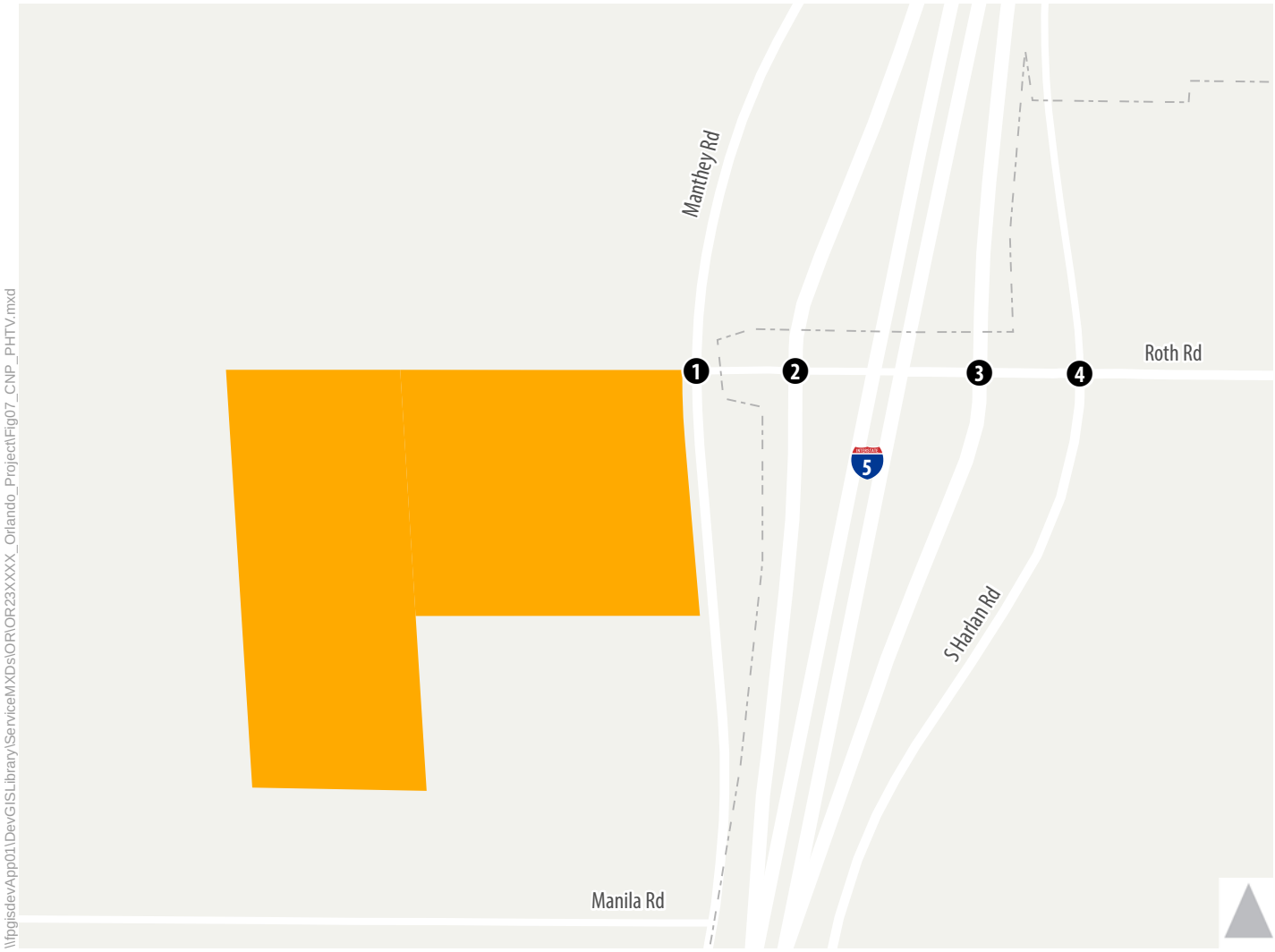
Table 10: Intersection Operations – Cumulative No Project Conditions

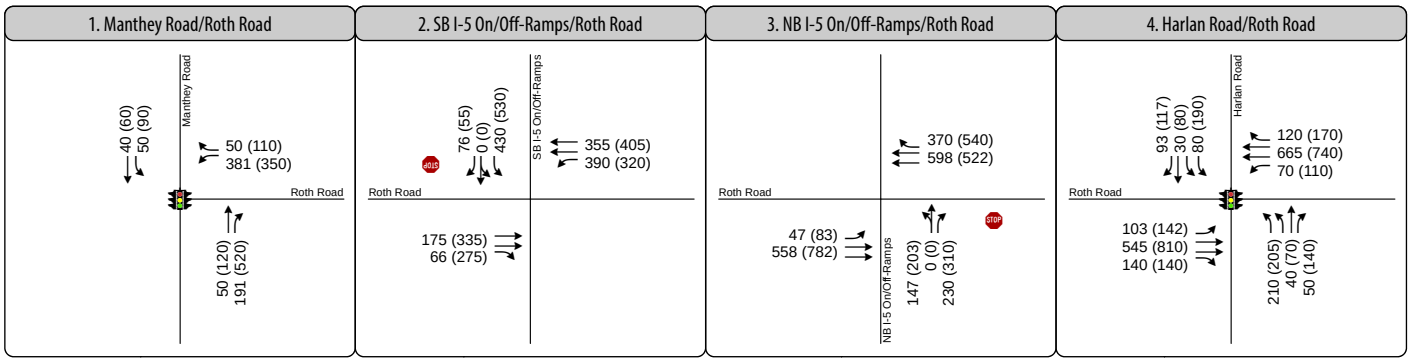
Intersection	Control Type	AM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	13.9	B	16.3	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>350 (SB LT)** **> 120 (SB RT)** **> 120 (Entire)**	**F** **F** **F**	18.0 (EB TH) 10.3 (EB RT) **87.2 (WB LT)** 15.3 (WB TH) 17.8 (SB LT) 11.2 (SB RT) 34.3 (Entire)	C B **F** C C B D
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**47.4 (NB LT)** 7.6 (NB RT) 7.5 (Entire)	**E** A A	10.6 (EB LT) 11.5 (EB TH) **51.5 (WB TH)** 21.9 (WB RT) 10.1 (NB LT) 7.3 (NB RT) 25.0 (Entire)	B B **F** C B A C
4. Harlan Road / Roth Road	Signal	21.9	C	32.5	C

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control
Source: Fehr & Peers, 2023

The primary conclusions of the Cumulative No Project Conditions analysis are:

- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would operate at acceptable LOS B conditions;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the southbound I-5 mainline;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Northbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the northbound I-5 mainline; and
- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would operate at acceptable LOS C conditions.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 7

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With Side-Street Stop Control at Ramp Terminal Intersections

6.2 Cumulative Plus Project Intersection Operations

As shown in Figure 3, under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on the future Roth Road, approximately 650 feet west of the southbound I-5 / Roth Road ramp terminal intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. **Figure 8** displays the intersection turning movements and lane configurations under Cumulative Plus Project conditions with side-street stop control for both the NB and SB I-5 ramp terminal intersections.. **Table 11** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix D.**

Table 11: Intersection Operations – Cumulative No Project and Cumulative Plus Project AM Peak Hour Conditions With Side Street Stop Controlled Interstate 5 Ramps

Intersection	Control Type	Cumulative No Project Conditions		Cumulative Plus Project Conditions	
		AM Peak Hour		AM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	13.9	B	13.4	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>350 (SB LT)** **> 120 (SB RT)** **> 120 (Entire)**	**F** **F** **F**	**>600 (SB LT)** **> 600 (SB RT)** **> 140 (Entire)**	**F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**47.4 (NB LT)** 7.6 (NB RT) 7.5 (Entire)	**E** A A	**> 160 (NB LT)** 16.6 (NB RT) 21.8 (Entire)	**F** C C
4. Harlan Road / Roth Road	Signal	21.9	C	22.0	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		11.9 (WB LT) 4.5 (WB RT) 2.0 (Entire)	B A A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

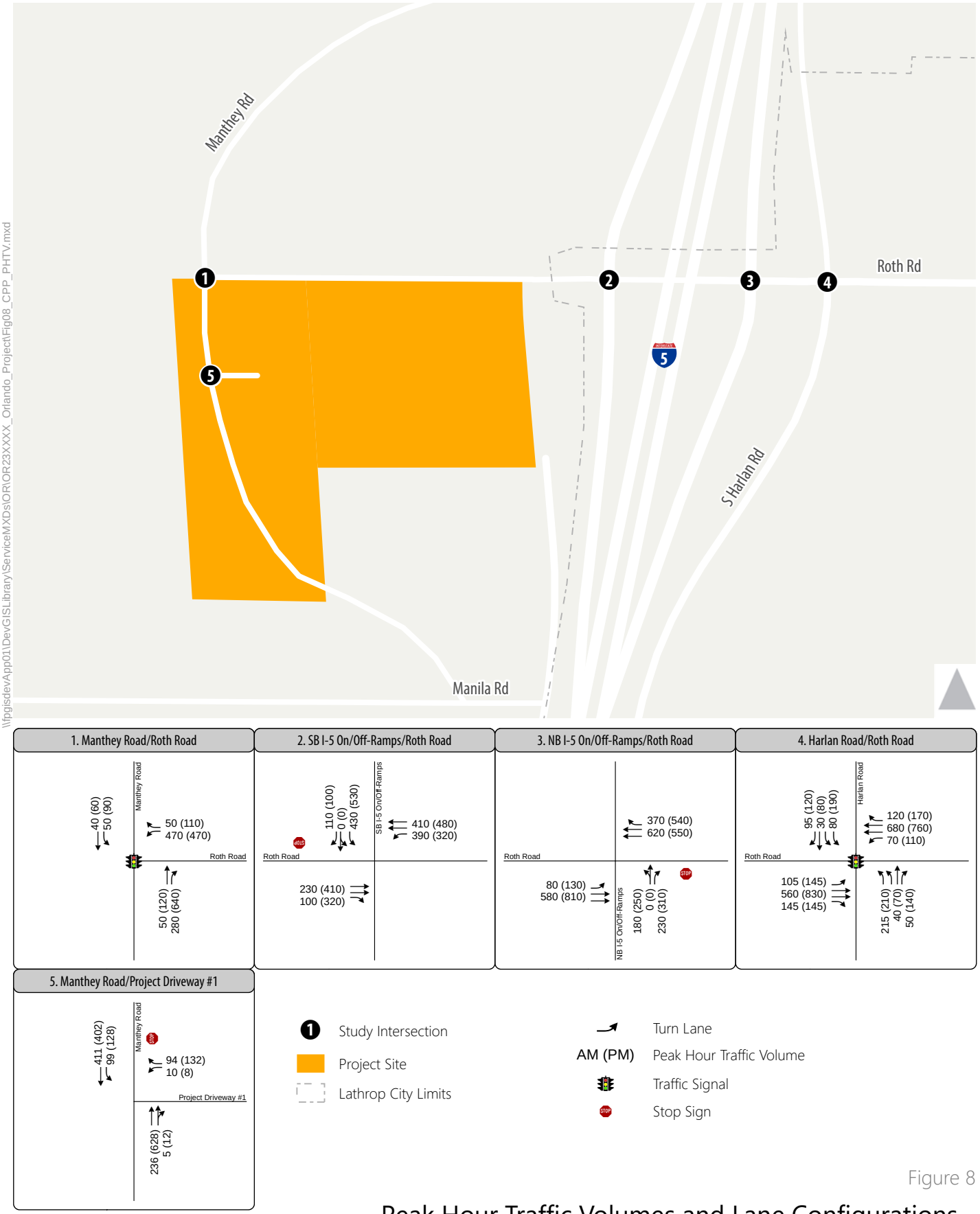


Figure 8

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With Side-Street Stop Control at Ramp Terminal Intersections

Table 12 presents the results of the Cumulative No Project and Cumulative Plus Project PM Peak Hour intersection operations analysis with side-street stop-controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix D**.

Table 12: Intersection Operations – Cumulative No Project and Cumulative Plus Project PM Peak Hour Conditions With Side Street Stop Controlled Interstate 5 Ramps

Intersection	Control Type	Cumulative No Project Conditions		Cumulative Plus Project Conditions	
		PM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1. Manthey Road / Roth Road	Signal	16.6	B	17.0	B
2. SB I-5 On/Off-Ramps / Roth Road	SSSC	**>1000 (SB LT)** **> 1000 (SB RT)** **> 330 (Entire)**	**F** **F** **F**	**>2500 (SB LT)** **> 2500 (SB RT)** **> 190 (Entire)**	**F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	SSSC	**> 290 (NB LT)** **50.1 (NB RT)** **42.6 (Entire)**	**F** **F** **E**	**> 600 (NB LT)** **> 160 (NB RT)** **> 90 (Entire)**	**F** **F** **F**
4. Harlan Road / Roth Road	Signal	28.6	C	**65.1**	**E**
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		30.8 (WB LT) 30.7 (WB RT) 8.7 (Entire)	D D A

Notes:
Bold indicates deficient operations.
SSSC = Side-Street Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

The primary conclusion of the Cumulative With Project (With Side Street Stop Controlled I-5 Ramps) Conditions analysis (Tables 11 and 12) are:

- During both AM and PM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions with excessive delays and congestion affecting the southbound I-5 mainline;

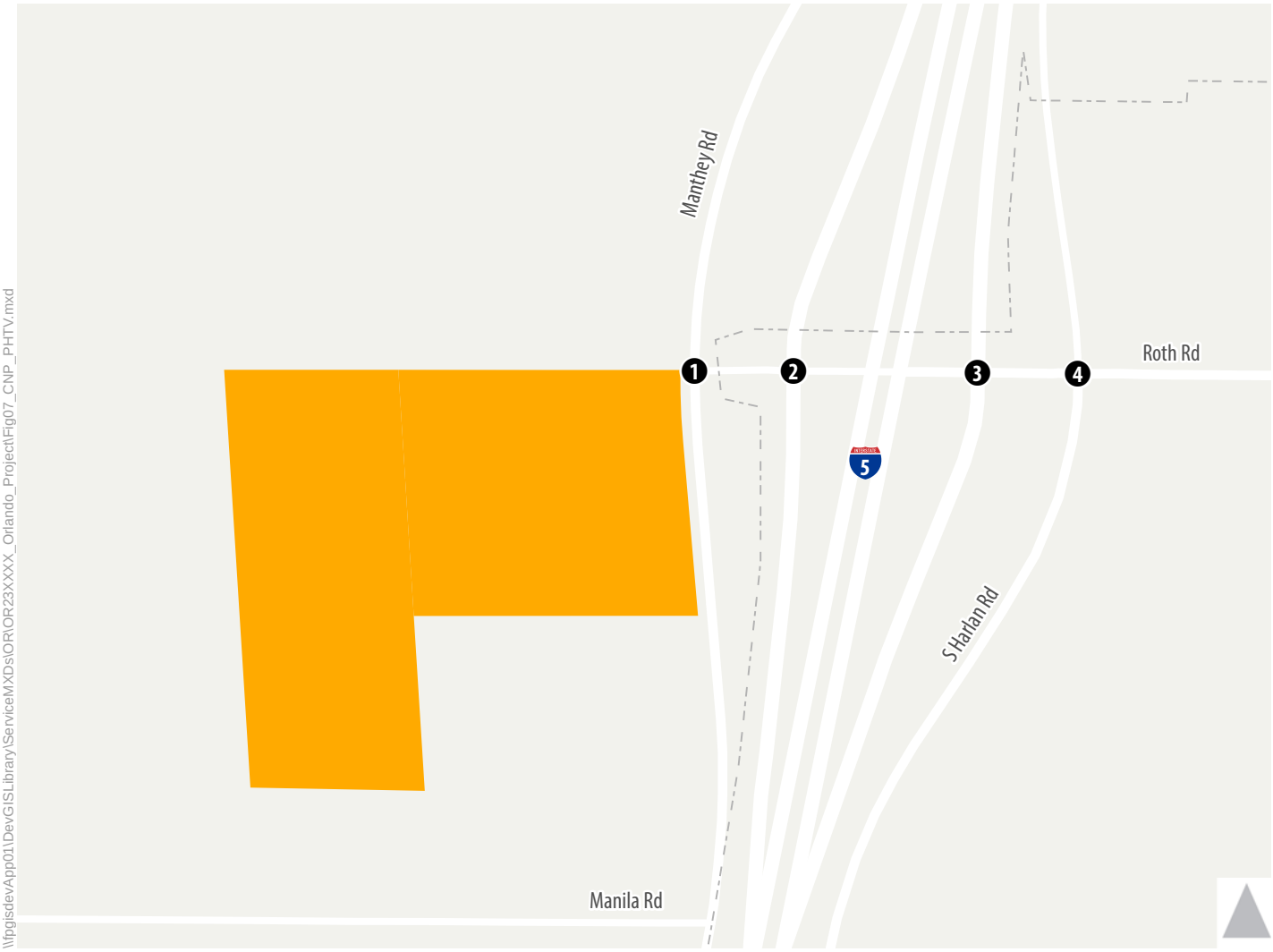
The primary conclusion of the Cumulative With Project (With Side Street Stop Controlled I-5 Ramps) Conditions analysis (Tables 11 and 12) are (continued):

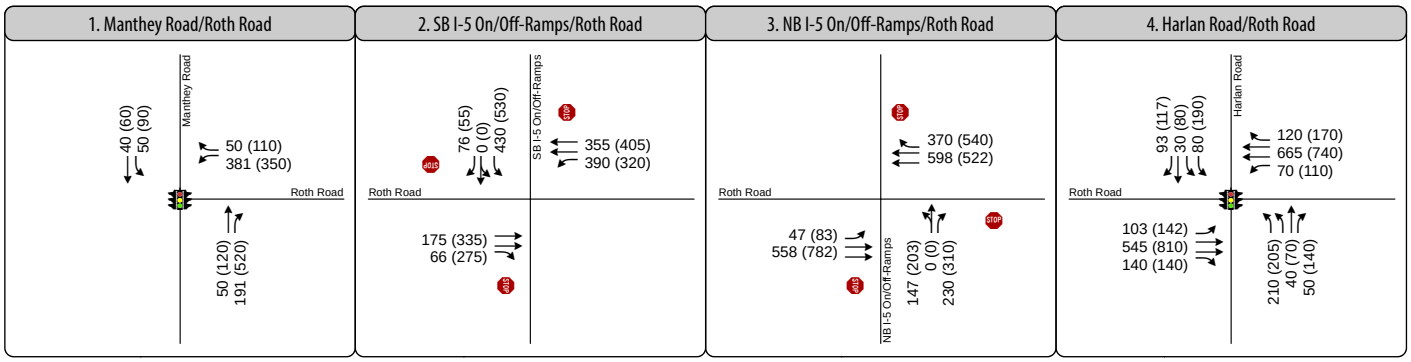
- During both AM and PM Peak Hour Conditions, the side-street stop-controlled Northbound I-5 / Roth Road ramp terminal intersection would operate at unacceptable LOS F conditions with excessive delays and congestion affecting the northbound I-5 mainline;
- During AM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- During PM Peak Hour Conditions, as a result of increased congestion at the I-5 / Roth Road interchange, the re-aligned and signalized Harlan Road / Roth Road intersection would degrade from acceptable LOS C to marginal LOS E conditions.

As shown in Tables 11 and 12, with the I-5 / Roth Road ramp terminal intersections operating as side-street stop controlled results in excessive delays and congestion that would negatively affect both northbound and southbound I-5 mainline. Therefore, the following sections include the conversion of the ramp terminal intersection from side-street stop control to all-way stop control to determine the benefits of modifying the intersection control to serve projected Cumulative No Project and Cumulative Plus Project AM and PM peak hour traffic volumes.

Figure 9 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with all-way stop control for both the NB and SB I-5 ramp terminal intersections. **Table 13** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with an all-way-stop controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix E**.

Figure 10 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative With Project conditions with all-way stop control for both the NB and SB I-5 ramp terminal intersections. **Table 14** presents the results of the Cumulative Plus Project PM Peak Hour intersection operations analysis with an all-way-stop controlled I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix E**.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 9

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With All-Way Stop Control at Ramp Terminal Intersections

Table 13: Intersection Operations – Cumulative No Project and Cumulative Plus Project AM Peak Hour Conditions With All Way Stop Controlled Interstate 5 Ramps					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		AM Peak Hour		**AM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	16.3	B	15.8	B
2. SB I-5 On/Off-Ramps / Roth Road	AWSC	18.0 (EB TH) 10.3 (EB RT) **87.2 (WB LT)** 15.3 (WB TH) 17.8 (SB LT) 11.2 (SB RT) 34.3 (Entire)	C B **F** C C B D	22.2 (EB TH) 13.6 (EB RT) **>110 (WB LT)** 16.2 (WB TH) 19.7 (SB LT) 13.7 (SB RT) **38.6 (Entire)**	C B **F** C C B **E**
3. NB I-5 On/Off-Ramps / Roth Road	AWSC	10.6 (EB LT) 11.5 (EB TH) **51.5 (WB TH)** 21.9 (WB RT) 10.1 (NB LT) 7.3 (NB RT) 25.0 (Entire)	B B **F** C B A C	11.4 (EB LT) 12.7 (EB TH) **>80 (WB TH)** 33.6 (WB RT) 12.9 (NB LT) 8.4 (NB RT) **36.6 (Entire)**	B B **F** D B A **E**
4. Harlan Road / Roth Road	Signal	32.5	C	50.6	D
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		11.9 (WB LT) 4.5 (WB RT) 2.0 (Entire)	B A A

Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

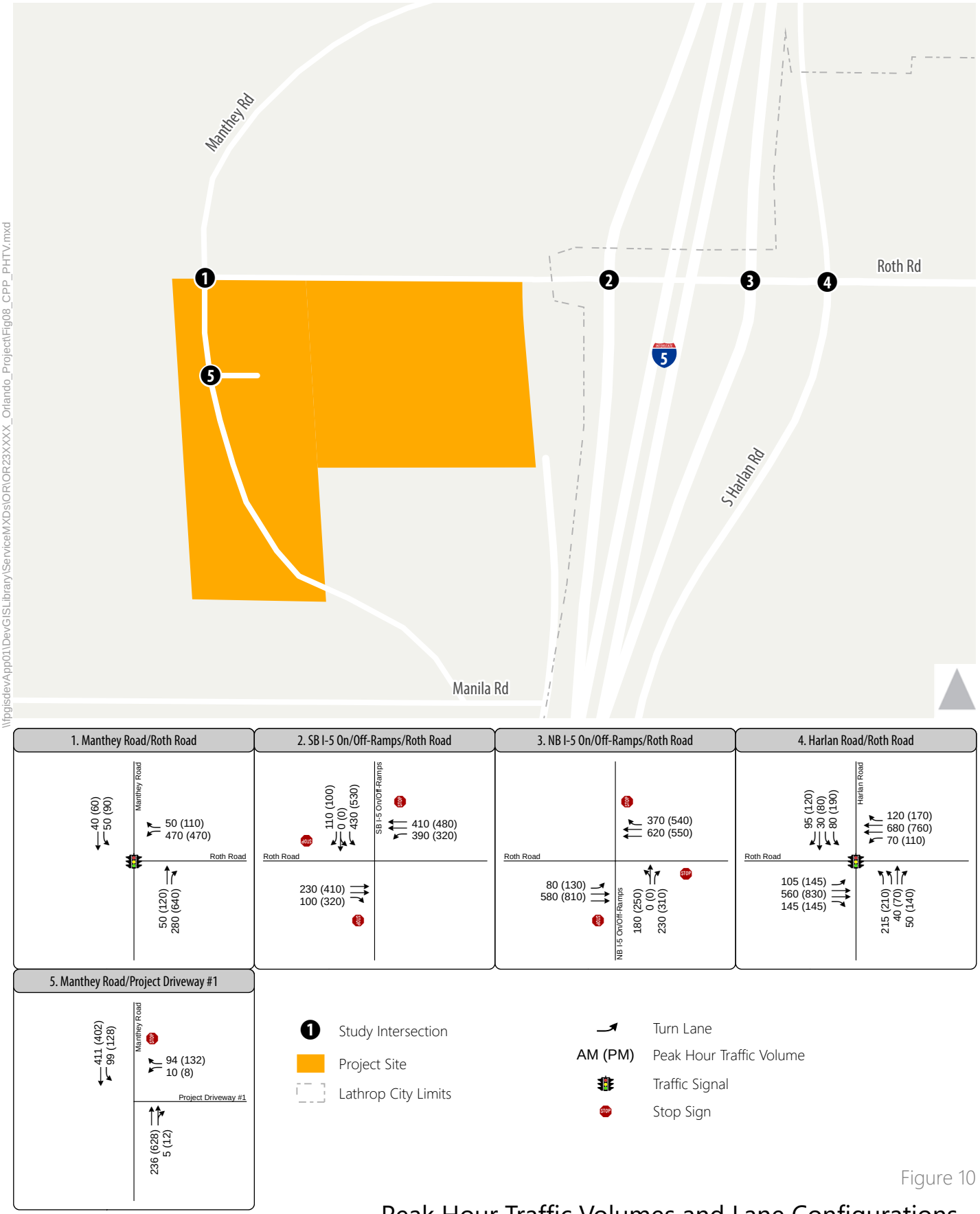


Figure 10

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With All-Way Stop Control at Ramp Terminal Intersections

Table 14: Intersection Operations – Cumulative No Project and Cumulative Plus Project PM Peak Hour Conditions With All Way Stop Controlled Interstate 5 Ramps					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	59.4	E	80.5	F
2. SB I-5 On/Off-Ramps / Roth Road	AWSC	**> 160 (EB TH)** **> 120 (EB RT)** **> 100 (WB LT)** 21.9 (WB TH) 30.1 (SB LT) 20.8 (SB RT) **77.2 (Entire)**	**F** **F** **F** C D C **F**	**> 250 (EB TH)** **> 180 (EB RT)** **> 110 (WB LT)** **68.6 (WB TH)** **91.6 (SB LT)** **82.6 (SB RT)** **> 120 (Entire)**	**F** **F** **F** **F** **F** **F** **F**
3. NB I-5 On/Off-Ramps / Roth Road	AWSC	12.5 (EB LT) 17.5 (EB TH) **70.3 (WB TH)** **65.6 (WB RT)** 16.4 (NB LT) 17.1 (NB RT) **39.3 (Entire)**	B C **F** **F** C C **E**	13.2 (EB LT) 20.4 (EB TH) **> 100 (WB TH)** **97.5 (WB RT)** **93.3 (NB LT)** 33.8 (NB RT) **63.7 (Entire)**	B C **F** **F** **F** D **F**
4. Harlan Road / Roth Road	Signal	**56.2**	**E**	**> 140**	**F**
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		31.0 (WB LT) **> 310 (WB RT)** **> 110 (Entire)**	D **F** **F**

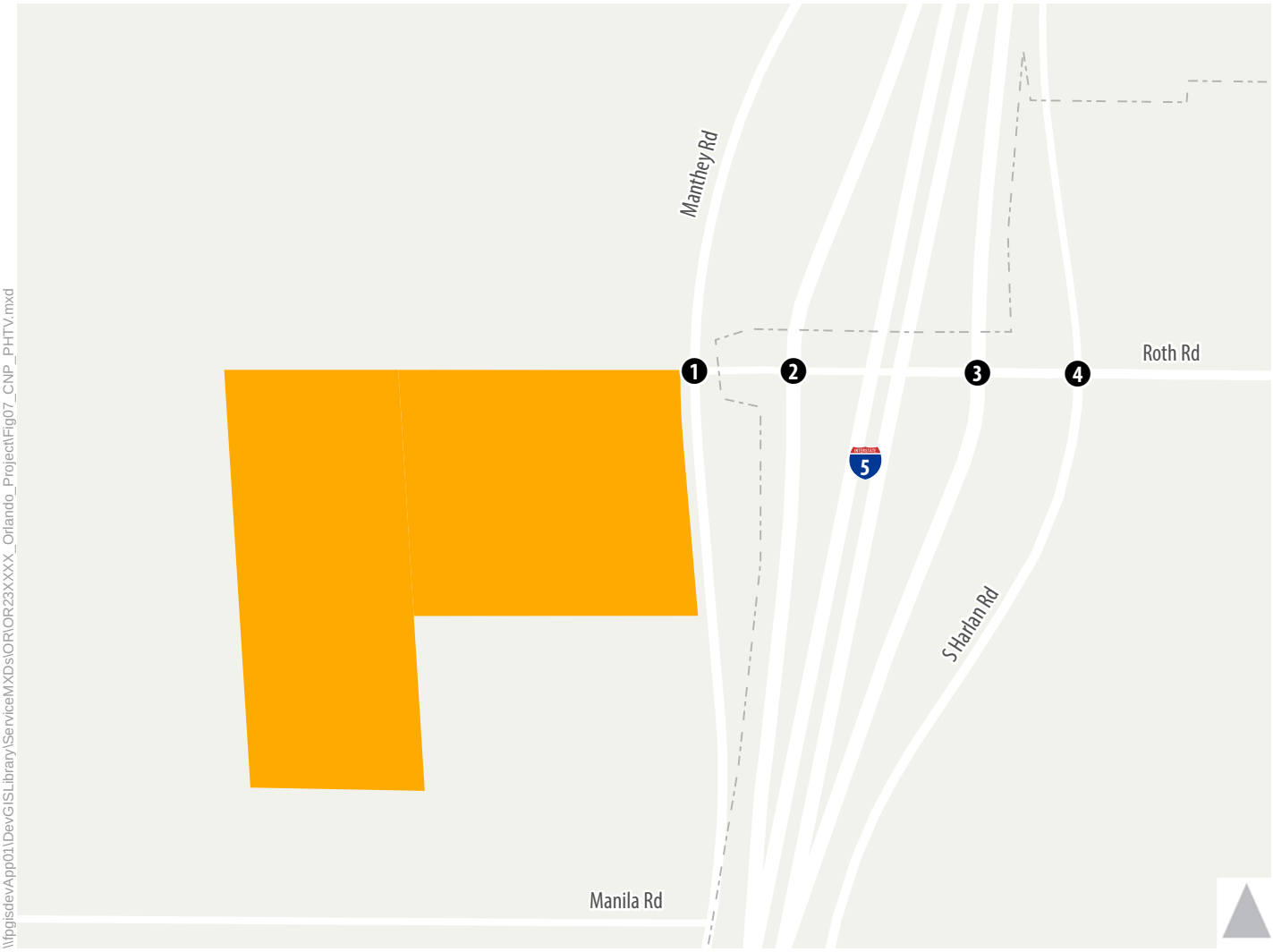
Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

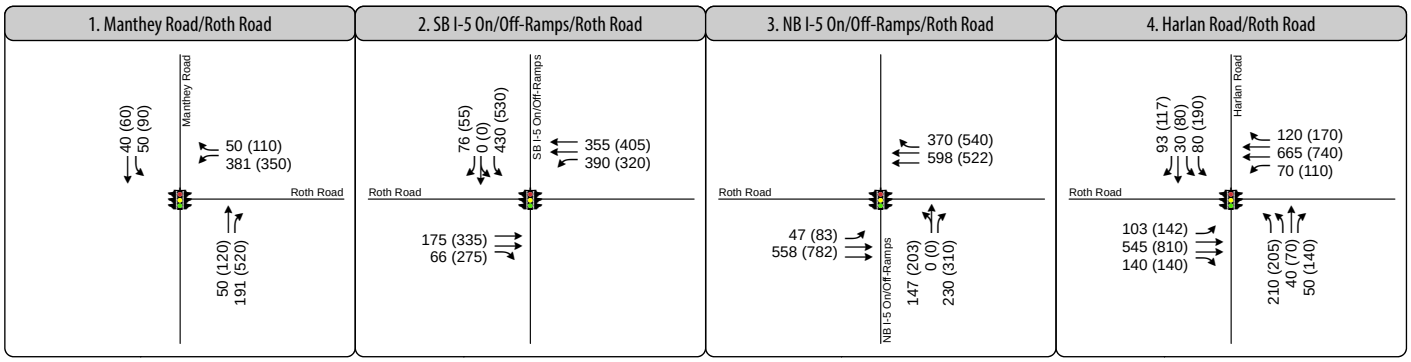
The primary conclusion of the Cumulative With Project Conditions (With All-Way Stop Controlled I-5 Ramps) Conditions analysis (Tables 13 and 14) are:

- During AM Peak Hour Conditions, the re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the re-aligned and signalized Manthey Road / Roth Road intersection would degrade from marginal LOS E (No Project) to unacceptable LOS F (With Project) conditions;
- During AM Peak Hour Conditions, the westbound Roth Road left-turn movement at the all-way stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions;
- During PM Peak Hour Conditions, the entire all-way stop-controlled Southbound I-5 / Roth Road ramp terminal intersection would continue to operate at unacceptable LOS F conditions;
- During AM Peak Hour Conditions, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C/D conditions;
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at marginal LOS E (No Project) and unacceptable LOS F (With Project) conditions;
- During AM Peak Hour Conditions, the newly constructed Manthey Road / Project Driveway intersection is projected to operate at acceptable LOS A/B conditions for vehicles (cars and trucks) exiting the project site; and
- During PM Peak Hour Conditions, as a result of increased congestion at the all-way stop controlled I-5 / Roth Road interchange, the newly constructed Manthey Road / Project Driveway intersection is projected to operate at unacceptable LOS F conditions for vehicles (cars and trucks) exiting the project site traveling towards the I-5 / Roth Road interchange.

Figure 11 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative No Project conditions with signalized control for both the NB and SB I-5 ramp terminal intersections. **Table 15** presents the results of the Cumulative No Project and Cumulative Plus Project AM Peak Hour intersection operations analysis with a signalized I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix F**.

Figure 12 display AM and PM peak hour turning movements and lane configurations at the study intersections under Cumulative With Project conditions with signalized control for both the NB and SB I-5 ramp terminal intersections. **Table 16** presents the results of the Cumulative No Project and Cumulative Plus Project PM Peak Hour intersection operations analysis with an improved and signalized I-5 / Roth Road interchange. Technical calculations are displayed in **Appendix F**.





1 Study Intersection

Project Site

Lathrop City Limits

Turn Lane

AM (PM) Peak Hour Traffic Volume

Traffic Signal

Stop Sign

Figure 11

Peak Hour Traffic Volumes and Lane Configurations - Cumulative No Project Conditions - With Signal Control at Ramp Terminal Intersections

Table 15: Intersection Operations – Cumulative Plus Project AM Peak Hour Conditions With Mitigated and Signalized Interstate 5 Interchange					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		AM Peak Hour		**AM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	11.1	B	11.2	B
2. SB I-5 On/Off-Ramps / Roth Road	Signal	22.2	C	21.5	C
3. NB I-5 On/Off-Ramps / Roth Road	Signal	13.6	B	15.8	B
4. Harlan Road / Roth Road	Signal	21.8	C	22.1	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		12.8 (WB LT) 4.7 (WB RT) 1.9 (Entire)	B A A

Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

The primary conclusion of the Cumulative With Project Conditions (With Signalized I-5 Ramps) Conditions analysis AM Peak Hour Conditions are:

- The re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- The improved and signalized southbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS C conditions;
- The improved and signalized northbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B conditions;
- The re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- The newly constructed Manthey Road / Project Driveway intersection is projected to operate at acceptable LOS A/B conditions for vehicles (cars and trucks) exiting the project site.

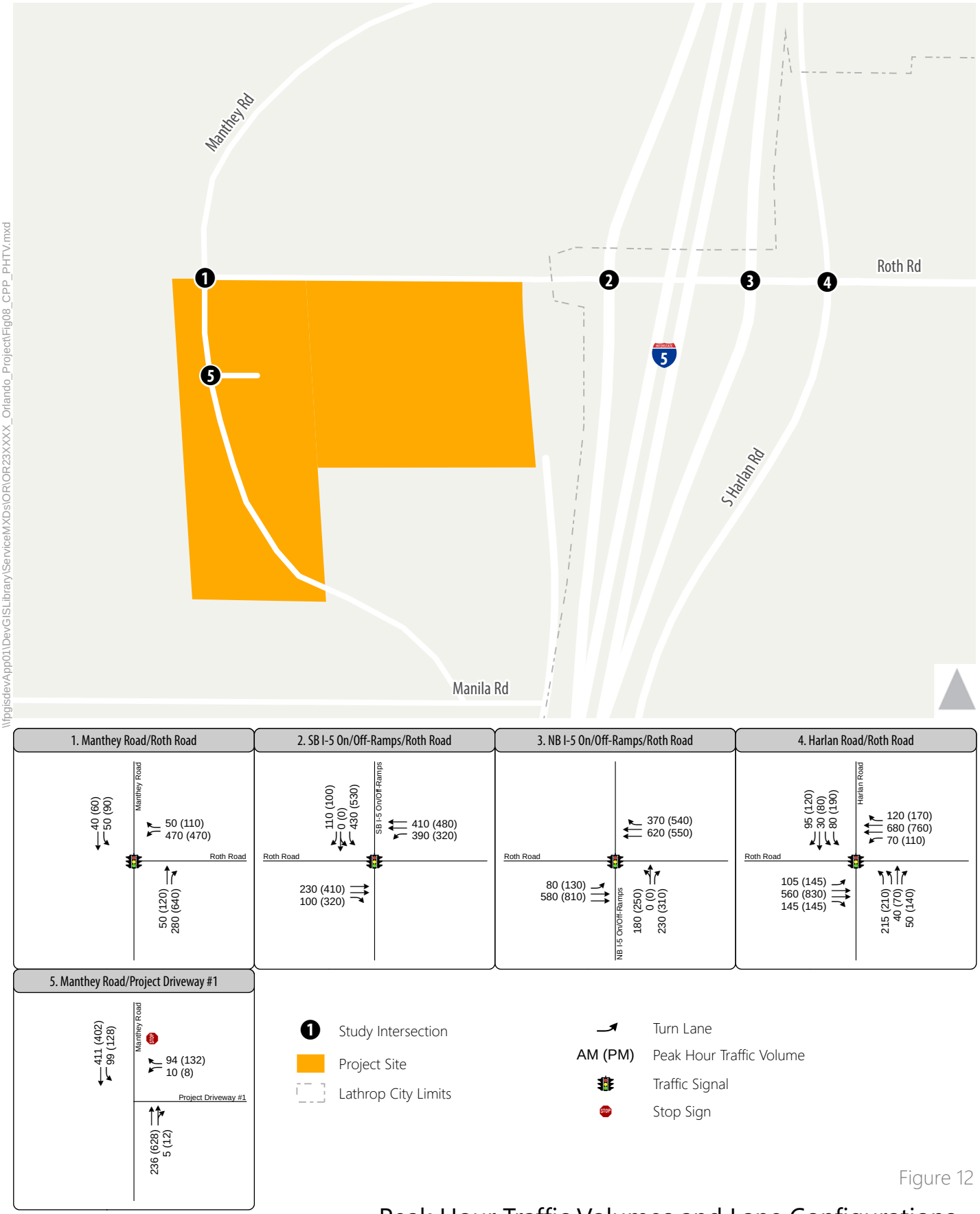


Figure 12

Peak Hour Traffic Volumes and Lane Configurations - Cumulative With Project Conditions - With Signal Control at Ramp Terminal Intersections

Table 16: Intersection Operations – Cumulative Plus Project PM Peak Hour Conditions With Mitigated and Signalized Interstate 5 Interchange					
Intersection	**Control Type**	**Cumulative No Project Conditions**		**Cumulative Plus Project Conditions**	
		PM Peak Hour		**PM Peak Hour**	
		Delay	**LOS**	**Delay**	**LOS**
1. Manthey Road / Roth Road	Signal	14.7	B	17.0	B
2. SB I-5 On/Off-Ramps / Roth Road	Signal	20.4	C	19.8	B
3. NB I-5 On/Off-Ramps / Roth Road	Signal	16.6	B	18.3	B
4. Harlan Road / Roth Road	Signal	27.5	C	28.4	C
5. Manthey Road / Project Driveway #2	SSSC	Intersection does not exist in this scenario		**58.2 (WB LT)** 28.3 (WB RT) 8.2 (Entire)	**E** C A

Notes:
Bold indicates deficient operations.
AWSC = All-Way Stop Control.
[1] The future interchange design has not been formalized. Delay and LOS are estimated using a partial-cloverleaf interchange configuration and are subject to change.
[2] Intersection lane configuration and/or traffic control are different from Existing Conditions due to planned intersection and roadway improvements.
Source: Fehr & Peers, 2023

The primary conclusion of the Cumulative With Project Conditions (With Signalized I-5 Ramps) Conditions analysis PM Peak Hour Conditions are:

- The re-aligned and signalized Manthey Road / Roth Road intersection would continue to operate at acceptable LOS B conditions;
- The improved and signalized southbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B/C conditions;
- The improved and signalized northbound I-5 / Roth Road ramp terminal intersection would continue to operate at acceptable LOS B conditions;
- The re-aligned and signalized Harlan Road / Roth Road intersection would continue to operate at acceptable LOS C conditions; and
- The westbound left-turn (LOS E) can be improved by providing a southbound Manthey Road refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

7. Safety Assessment Analysis

This section describes the results of potential safety impacts associated with transportation and circulation that could result from implementation of the proposed Singh Petroleum Investments Project located in the City of Lathrop. It describes the safety-related reviews, investigations, and analysis that was completed for Existing Plus Project and Cumulative Plus Project conditions.

7.1 Planned Traffic Safety Improvements in the Project Area

The following documents and projects in the City of Lathrop, SJCOG, and Caltrans jurisdictions are reviewed for traffic safety improvements:

- **City of Lathrop General Plan – Circulation 3.14**
- **City of Lathrop Capital Improvement Program (CIP)**
- **SJCOG RTP/SCS**

The proposed Project includes an 8-island (16 position) fueling station, an 16,668 square foot retail / convenience store that includes a quality sit-down restaurant (QSR) with a drive-thru lane, an 8-truck fuel island, and a 13,846 square foot truck service / repair facility. Traffic generated by the proposed Project would increase traffic volumes on local roadways, I-5 / Roth Road on-ramps, I-5 / Roth Road off-ramps serving the project study area. Existing and future land use in the vicinity of the project area consists of a mix of warehousing, trucking, food, retail, and service uses. It should be noted that California legal and STAA trucks are prohibited from using Golden Valley Parkway, Spartan Road and the I-5 / Lathrop Road interchange

Traffic generated by the Project would not change the traffic mix in the area and would be compatible with existing and planned facility design. The Project will also support the implementation of City of Lathrop's General Plan and CIP to serve the Vehicle (cars and trucks), Transit, Bicycle and Pedestrian System. These improvement in the vicinity of the proposed project would improve multi-modal safety in the City of Lathrop. The proposed Project does not consist of any improvements or physical changes to the freeway mainline, freeway interchange, or other State Highway System (SHS) facilities. A detailed review of the facility design of the safety improvement projects listed above confirmed that the proposed Project would improve on the non-existent multi-modal facility by providing sidewalks along the project frontage on Roth Road and Manthey Road.

The City of Lathrop Bicycle Transportation Plan established the City's goals and objectives for bicycle travel. The Bicycle Transportation Plan establishes standards for bicycle facilities and identifies planned bicycle network facilities to address the City's bicycle needs. The Circulation Element developed as part of the proposed General Plan contains Policy CIR-2.1 and Implementation Actions CIR-2a and CIR-2g, which support bicycle and pedestrian routes and facilities and creating an active transportation plan supporting the development and funding of bicycle and pedestrian networks.

The City of Lathrop is currently preparing an Active Transportation Plan that will identify pedestrian, bicycle and transit improvements in the vicinity of the proposed Singh Petroleum Investments Project site. Based on the location of the future active transportation facilities, the following COA is recommended:

Traffic COA #3 – The developer shall coordinate with the City to construct sidewalks along the project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The developer shall work with the City to refine the design of the re-aligned Manthey Road at the project driveway to provide the following:

- One southbound through travel lane;
- One 150-foot southbound left-turn lane:
- One northbound through travel lane'
- One northbound shared through / right-turn lane;
- One westbound left-turn lane;
- One westbound right-turn lane; and
- One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

7.2 Freeway Off-Ramp Queueing Analysis

As described in Chapters 5 and 6, intersection operations analyses were completed for the following freeway ramp terminal intersections:

1. Southbound Interstate 5 On/Off-Ramps / Roth Road; and
2. Northbound Interstate 5 On/Off-Ramps / Roth Road.

Results of the intersection operations analysis show that under Existing Plus Project Conditions, both side-street stop-controlled ramp intersections would continue to operate at acceptable LOS A/B conditions (Table 8) during the AM peak hour and acceptable LOS A/B/C conditions (Table 9) during the PM peak hour.

With the improvement and signalization of the I-5 / Roth Road interchange, both ramp intersections would operate at acceptable LOS B/C during both AM and PM peak hours under Cumulative No Project and Cumulative Plus Project conditions.

A freeway off-ramp queueing analysis was completed for both ramp intersections during the AM and PM peak hour. The off-ramp queueing analysis was completed using the Synchro 11 software package as described in Chapter 3, and the 95th percentile queue is reported for all freeway off-ramp movements.

Table 17 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Existing and Existing Plus Project conditions. Technical Calculations are included in **Appendix A and Appendix B** for Existing, and Existing Plus Project Conditions, respectively.

As shown, with the addition of the project traffic, all freeway off-ramp queues can be accommodated within the off-ramp storage, except for the Southbound I-5 off-ramp right-turn movement. The short 25-foot right-turn lane results in minor queuing under both Existing and Existing Plus Project Conditions. It should be noted that under no circumstances does the queue extend back toward the freeway off-ramp gore point on southbound I-5.

Based on the freeway off-ramp queueing analysis, the proposed Project would not result in freeway off-ramp queuing spilling back from the I-5 / Roth Road interchange under Existing Plus Project Conditions.

Table 17: Freeway Off-Ramp Queueing Analysis – Existing and Existing Plus Project Conditions 95th Percentile Queue

Intersection	Move-ment	Storage (ft)	Existing				Existing Plus Project			
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
			Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)
1. SB I-5 Ramps / Roth Road	SB LT	525	123	128	123	113	123	125	123	132
	SB LT/TH	1,520	123	98	123	89	123	101	123	117
	SB RT	25	40	**72**	37	**67**	74	**81**	82	**87**
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	8	28	35	84	21	66	82	100
	NB RT	625	172	101	181	173	172	90	181	131

Notes:
BOLD indicated 95th Percentile Queue Exceeds Storage Length
Source: Fehr & Peers, 2022

Table 18 presents the results of the freeway off-ramp queueing analysis for the AM and PM peak hour under Cumulative and Cumulative Plus Project conditions. As shown, with the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Technical Calculations are included in **Appendix C and Appendix F** for Cumulative No Project and Cumulative Plus Project Conditions, respectively.

Based on the freeway off-ramp queueing analysis, the proposed Project Singh Petroleum would not result in freeway off-ramp queuing spilling back from the I-5 / Roth Road interchange under Cumulative Plus Project Conditions. With the improvement and signalization of the I-5 / Roth Road interchange, all freeway off-ramp queues can be accommodated within the off-ramp storage. Traffic generated by the proposed Project would remain compatible with the planned traffic safety improvements in the vicinity of the Project.

Table 18: Freeway Off-Ramp Queueing Analysis – Cumulative No Project and Cumulative Plus Project Conditions 95th Percentile Queue										
			Cumulative No Project				Cumulative Plus Project			
Intersection	Move-ment	Storage (ft)	AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
			Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)	Volume	Queue (ft)
1. SB I-5 Ramps / Roth Road	SB LT	525	215	247	265	274	215	243	265	274
	SB LT/TH	1,520	215	288	265	310	215	286	265	319
	SB RT	250	76	166	55	159	110	189	100	209
2. NB I-5 Ramps / Roth Road	NB LT/TH	1,300	147	167	203	232	180	195	250	270
	NB RT	625	230	136	310	202	230	138	310	219
Notes: **BOLD** indicated 95th Percentile Queue Exceeds Storage Length Source: Fehr & Peers, 2022										

It should be noted that the design of the I-5 / Roth Road interchange improvement has not been formalized; however, off-ramp queuing of the future interchange will be studied in detail as part of the Interstate 5 / Roth Road Interchange Improvement Project led by the City of Lathrop, in coordination with Caltrans.

Traffic COA #4 – The developer shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which will be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.

7.3 Site Access Evaluation

Under Existing / Near-term conditions, access to the project site would be provided via two (2) full-access driveway on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal and STAA trucks. Two outbound (right-turn only) driveways would be provided on the proposed extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Administration (STAA) trucks. **Figure 2** displays the existing / near-term project site plan and access driveways.

Under Cumulative conditions, access to the project site for passenger vehicles / delivery trucks would be provided via a right-turn in / right-turn out driveway on Roth Road, approximately 650 feet west of the southbound I-5 / Roth Road ramp terminal intersection. Access to the project site for CA legal and STAA trucks would be provided on the proposed relocated Manthey Road, approximately 300 feet south of the re-aligned Roth Road / Manthey Road intersection. **Figure 3** displays the existing / near-term project site plan and access driveways.

Both project driveways were analyzed under the Existing Plus Project and the Cumulative Plus Project conditions. As shown in **Table 4** and **Table 16** both project driveways would operate acceptably as side-street stop controlled intersections, and project traffic would be able to enter and exit project driveways without excessive delay.

It is important that the site design provides adequate throat depth for vehicular traffic. Without this, queueing may extend onto public streets, thereby adversely affecting traffic operations and creating potential safety hazards.

The proposed site plan shows sidewalks being constructed along the project frontage on Roth Road and Manthey Road. A preliminary site plan review indicates adequate emergency access would be provided and there do not appear to be any geometric hazards. However, all project access intersections, internal intersections, and internal roadways should be carefully designed to ensure they can accommodate emergency vehicles. All intersections and street sections should be reviewed by the City of Lathrop and designed to comply with typical City standards.

8. Conclusions

This chapter presents the conclusions of the transportation impact analysis for the proposed Singh Petroleum Investments Project in the City of Lathrop.

8.1 Transportation Impact Analysis

Consistent with SB 743, VMT is used as the primary metric for identifying significant transportation impacts. VMT impact for the proposed Project was analyzed using methodology and threshold identified in the City of Lathrop draft TIA Guidelines.

Under Existing (Baseline) Conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the proposed Project would generate an estimated average of 27.8 VMT per employee, which is 79.5% below the baseline city-wide average.

Under Cumulative Adopted General Plan Buildout conditions, based on the type of project that includes a combination of net new, pass-by and diverted vehicle trips, the Project would generate an estimated average of 43.1 VMT per employee, which is 79.6% below the cumulative city-wide average.

Therefore, because the proposed project would generate VMT per employee that is less than existing city-wide VMT by employee or cumulative city-wide VMT by employee, the VMT impact of the proposed Singh Petroleum Investments Project would be less-than-significant.

8.2 Intersection Operations Analysis

Under Existing / Near-term conditions, access to the project site would be provided via two (2) full-access driveway on Manthey Road, approximately 300 feet and 500 feet south of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for CA legal and STAA trucks. Two outbound (right-turn only) driveways would be provided on the proposed extension of Roth Road west of Manthey Road, approximately 400 feet and 550 feet west of the Roth Road / Manthey Road intersection. The first driveway would be for passenger vehicles / delivery trucks and the second driveway would be for California (CA) legal and Surface Transportation Assistance Administration (STAA) trucks.

The results of the intersection operations analysis indicate that with the addition of project-generated traffic, all study intersections would operate acceptably under Existing Plus Project conditions during the AM and PM peak hour.

Under Cumulative No Project and Cumulative Plus Project conditions, with improvements on Roth Road and at the I-5 / Roth Road interchange, all study intersections would operate acceptably at LOS A through D during both AM and PM peak hours.

Recommended Conditions of Approval

The following conditions should be incorporated into the Conditions of Approval for the proposed Project:

Traffic COA #1 – The proposed project will coordinate with the City of Lathrop Public Works Department to construct the fourth (west) leg of the Manthey Road / Roth Road intersection and modify the intersection from a side-street stop controlled to an all-way stop controlled intersection.

Traffic COA #2 – The proposed project will coordinate with the City of Lathrop Public Works Department to ensure access and egress from the existing driveway / house located directly south of the proposed full access driveway on the current alignment of Manthey Road is maintained and adequate site distance is provided.

Traffic COA #3 – The developer shall coordinate with the City to construct sidewalks along the project frontage on Roth Road and Manthey Road and also preserve right-of-way along the future Manthey Road re-alignment. The driveways on Manthey Road and Roth Road shall be designed to provide visibility to eliminate potential hazards to pedestrians and adjacent parcels / homes. The design of the driveways shall be reviewed and approved by the Director of Engineering/City Engineer. The developer shall work with the City to refine the design of the re-aligned Manthey Road at the project driveway to provide the following:

- One southbound through travel lane;
- One 150-foot southbound left-turn lane:
- One northbound through travel lane'
- One northbound shared through / right-turn lane;
- One westbound left-turn lane;
- One westbound right-turn lane; and
- One southbound refuge / acceleration lane for vehicles (cars and trucks) exiting the project site and making a left-turn onto southbound Manthey Road.

Traffic COA #4 – The developer shall coordinate with the City to begin the Project Study Report / Project Development Support (PSR/PDS) project initiation document which will be used to program the project development support for State Transportation Improvement Program (STIP) and San Joaquin Council of Governments (SJCOG) Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) funding.

Appendix A – Existing Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.2	3.3	0.1	0.1	0.8
Total Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Total Del/Veh (s)	4.7	0.8	0.7	0.3	1.3	1.0	1.8
Total Stops	73	0	0	0	4	0	77
Travel Dist (mi)	3.0	1.0	12.8	18.7	11.7	11.2	58.2
Travel Time (hr)	0.3	0.1	0.3	0.5	0.3	0.3	1.7
Avg Speed (mph)	11	16	43	39	38	43	35
Fuel Used (gal)	0.1	0.0	0.4	0.5	0.3	0.3	1.6
HC Emissions (g)	5	2	27	34	21	27	116
CO Emissions (g)	81	26	531	647	390	509	2185
NOx Emissions (g)	11	4	81	100	60	80	335
Vehicles Entered	73	28	43	63	36	34	277
Vehicles Exited	73	28	43	63	36	34	277
Hourly Exit Rate	73	28	43	63	36	34	277
Input Volume	73	27	44	62	37	33	276
% of Volume	100	104	98	102	97	103	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.6	2.6	0.8
Total Delay (hr)	0.0	0.0	0.1	0.0	0.8	0.0	0.9
Total Del/Veh (s)	0.5	0.3	2.6	0.7	11.2	3.8	5.6
Total Stops	3	1	23	0	243	42	312
Travel Dist (mi)	3.2	0.6	14.0	5.7	67.2	11.3	102.0
Travel Time (hr)	0.2	0.0	0.6	0.2	2.9	0.4	4.4
Avg Speed (mph)	17	14	23	30	24	28	24
Fuel Used (gal)	0.3	0.0	0.4	0.2	1.9	0.3	3.2
HC Emissions (g)	13	2	30	16	98	19	179
CO Emissions (g)	334	31	625	349	1740	342	3420
NOx Emissions (g)	38	4	80	44	263	53	482
Vehicles Entered	85	15	155	63	241	41	600
Vehicles Exited	85	15	154	63	242	41	600
Hourly Exit Rate	85	15	154	63	242	41	600
Input Volume	84	16	157	61	246	40	604
% of Volume	101	94	98	103	98	102	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.3	3.1	0.5
Total Delay (hr)	0.1	0.2	0.1	0.2	0.0	0.2	0.8
Total Del/Veh (s)	6.8	1.9	2.4	2.1	9.8	5.1	2.9
Total Stops	23	1	0	3	7	171	205
Travel Dist (mi)	3.5	28.6	9.7	12.9	1.7	40.4	96.8
Travel Time (hr)	0.2	1.3	0.6	0.9	0.1	1.7	4.7
Avg Speed (mph)	18	23	18	14	23	26	21
Fuel Used (gal)	0.1	1.7	1.0	0.7	0.0	1.1	4.7
HC Emissions (g)	5	102	53	39	1	54	254
CO Emissions (g)	143	2355	1314	730	20	906	5469
NOx Emissions (g)	14	280	148	107	3	144	696
Vehicles Entered	38	288	212	275	7	171	991
Vehicles Exited	38	288	211	275	7	171	990
Hourly Exit Rate	38	288	211	275	7	171	990
Input Volume	42	287	210	268	8	172	987
% of Volume	90	100	100	103	88	99	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.4	0.4	3.6	0.3	0.3	2.6	0.2	0.2	3.2
Total Delay (hr)	0.2	0.9	0.1	0.1	0.9	0.1	0.8	0.1	0.1	0.1	0.0	0.1
Total Del/Veh (s)	8.2	12.3	3.5	13.4	14.7	6.4	13.1	15.5	6.2	7.5	11.5	5.6
Total Stops	69	247	142	25	214	46	218	29	54	26	13	56
Travel Dist (mi)	2.8	10.2	5.8	4.5	38.5	7.2	63.4	8.3	15.5	6.5	3.1	13.4
Travel Time (hr)	0.3	1.3	0.5	0.2	2.0	0.4	2.8	0.4	0.6	0.3	0.1	0.6
Avg Speed (mph)	9	8	12	19	19	22	23	23	26	25	24	26
Fuel Used (gal)	0.1	0.5	0.2	0.1	1.2	0.2	1.8	0.2	0.4	0.2	0.1	0.4
HC Emissions (g)	4	17	9	6	63	16	94	12	28	9	6	20
CO Emissions (g)	80	283	158	121	1236	316	1648	214	498	166	106	346
NOx Emissions (g)	11	37	22	15	159	41	253	33	76	26	16	54
Vehicles Entered	69	249	142	25	213	40	218	29	53	26	13	55
Vehicles Exited	69	249	142	25	213	40	218	29	53	26	13	55
Hourly Exit Rate	69	249	142	25	213	40	218	29	53	26	13	55
Input Volume	68	250	142	27	212	38	212	32	50	29	13	53
% of Volume	101	100	100	93	100	105	103	91	106	90	100	104
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.6
Total Delay (hr)	3.4
Total Del/Veh (s)	10.7
Total Stops	1139
Travel Dist (mi)	179.4
Travel Time (hr)	9.5
Avg Speed (mph)	19
Fuel Used (gal)	5.5
HC Emissions (g)	285
CO Emissions (g)	5171
NOx Emissions (g)	743
Vehicles Entered	1132
Vehicles Exited	1132
Hourly Exit Rate	1132
Input Volume	1126
% of Volume	101
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	0.5
Denied Del/Veh (s)	1.5
Total Delay (hr)	5.9
Total Del/Veh (s)	15.9
Total Stops	1761
Travel Dist (mi)	776.1
Travel Time (hr)	31.7
Avg Speed (mph)	25
Fuel Used (gal)	29.7
HC Emissions (g)	1784
CO Emissions (g)	36135
NOx Emissions (g)	4917
Vehicles Entered	1311
Vehicles Exited	1312
Hourly Exit Rate	1312
Input Volume	4301
% of Volume	31
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	0.5	7.9	0.0	20
NB I-5 On/Off-Ramp	3	1.4	11.2	0.1	29
Harlan Road	4	12.8	17.2	0.0	9
Total		14.7	36.3	0.2	18

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	14.7	33.7	0.2	20
NB I-5 On/Off-Ramp	3	3.8	8.5	0.0	19
SB I-5 On/Off-Ramp	2	0.6	10.1	0.1	32
Manthey Road	1	4.7	11.5	0.0	13
Total		23.9	63.8	0.4	21

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	SB
Directions Served	L	R	LT
Maximum Queue (ft)	71	7	46
Average Queue (ft)	27	0	4
95th Queue (ft)	59	5	24
Link Distance (ft)	143	143	1723
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	30	37	76	1	167	142	83
Average Queue (ft)	2	2	17	0	69	46	31
95th Queue (ft)	15	17	52	2	128	98	72
Link Distance (ft)	143	143	422	422		1463	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)						14	3
Queuing Penalty (veh)						22	7

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	69	26	12	4	29	42	128
Average Queue (ft)	19	1	1	0	2	7	55
95th Queue (ft)	51	14	9	5	15	28	101
Link Distance (ft)	422	422	422	157	157	1243	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	LT	R	LT	R	LT	R
Maximum Queue (ft)	98	158	90	179	85	173	107	84	78
Average Queue (ft)	34	72	39	78	29	82	31	28	35
95th Queue (ft)	73	130	76	144	76	143	73	66	71
Link Distance (ft)		157	157	944		1533		1294	
Upstream Blk Time (%)	0	0	0						
Queuing Penalty (veh)	0	1	0						
Storage Bay Dist (ft)	100				25		125		25
Storage Blk Time (%)	0	3		36	3	2	0	6	7
Queuing Penalty (veh)	0	2		14	8	1	0	3	3

Network Summary

Network wide Queuing Penalty: 61

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.3	3.2	0.2	0.1	0.5
Total Delay (hr)	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Total Del/Veh (s)	6.1	1.1	1.1	0.4	2.1	1.6	1.8
Total Stops	49	3	0	0	11	1	64
Travel Dist (mi)	2.0	3.1	33.3	15.9	19.8	15.7	89.7
Travel Time (hr)	0.2	0.2	0.8	0.5	0.5	0.4	2.5
Avg Speed (mph)	11	16	43	38	37	42	36
Fuel Used (gal)	0.1	0.1	1.0	0.4	0.5	0.5	2.5
HC Emissions (g)	2	4	73	28	31	34	172
CO Emissions (g)	37	64	1429	533	608	654	3325
NOx Emissions (g)	5	9	214	81	92	99	499
Vehicles Entered	49	90	113	53	61	48	414
Vehicles Exited	49	90	112	54	61	48	414
Hourly Exit Rate	49	90	112	54	61	48	414
Input Volume	47	85	111	52	62	47	404
% of Volume	104	106	101	104	98	102	102
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.6	2.9	0.8
Total Delay (hr)	0.0	0.0	0.1	0.0	0.7	0.0	0.9
Total Del/Veh (s)	0.6	0.3	2.7	1.1	10.5	3.8	5.1
Total Stops	2	1	22	0	240	38	303
Travel Dist (mi)	3.2	1.4	12.1	9.7	66.5	10.1	102.9
Travel Time (hr)	0.2	0.1	0.5	0.4	2.9	0.4	4.4
Avg Speed (mph)	17	15	23	27	24	28	24
Fuel Used (gal)	0.3	0.1	0.4	0.4	1.9	0.3	3.3
HC Emissions (g)	13	4	23	33	94	15	182
CO Emissions (g)	325	73	476	722	1680	270	3546
NOx Emissions (g)	37	10	61	89	254	42	493
Vehicles Entered	80	35	133	102	239	36	625
Vehicles Exited	80	35	133	102	240	36	626
Hourly Exit Rate	80	35	133	102	240	36	626
Input Volume	79	35	140	95	246	37	632
% of Volume	101	100	95	107	98	97	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.5	3.2	0.5
Total Delay (hr)	0.1	0.4	0.2	0.2	0.1	0.6	1.5
Total Del/Veh (s)	7.7	4.5	2.8	2.4	11.2	12.5	5.1
Total Stops	20	17	1	3	36	177	254
Travel Dist (mi)	2.8	28.7	9.2	15.9	8.5	41.8	106.9
Travel Time (hr)	0.2	1.5	0.5	1.1	0.4	2.2	5.8
Avg Speed (mph)	17	20	18	14	22	21	19
Fuel Used (gal)	0.1	1.7	0.9	0.9	0.2	1.2	5.1
HC Emissions (g)	5	99	49	49	10	65	277
CO Emissions (g)	128	2286	1225	903	188	1115	5844
NOx Emissions (g)	13	266	137	134	28	167	744
Vehicles Entered	30	289	201	342	36	177	1075
Vehicles Exited	30	289	201	341	36	177	1074
Hourly Exit Rate	30	289	201	341	36	177	1074
Input Volume	34	291	201	341	35	181	1083
% of Volume	88	99	100	100	103	98	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	1.4	1.6	4.5	0.4	0.5	2.6	0.3	0.3	3.1
Total Delay (hr)	0.2	1.6	0.2	0.7	4.0	0.6	1.5	0.5	0.3	0.2	0.2	0.1
Total Del/Veh (s)	11.6	22.0	5.2	52.0	49.7	34.2	25.8	29.6	11.1	13.1	17.0	8.3
Total Stops	69	252	143	47	284	84	202	59	95	52	52	59
Travel Dist (mi)	2.7	10.6	5.9	8.5	51.2	10.3	58.5	17.1	24.8	12.7	12.8	13.6
Travel Time (hr)	0.4	2.0	0.6	1.0	5.6	1.0	3.3	1.0	1.1	0.6	0.6	0.6
Avg Speed (mph)	8	5	10	9	9	11	18	17	23	22	21	24
Fuel Used (gal)	0.1	0.6	0.2	0.4	2.2	0.4	1.8	0.5	0.7	0.4	0.4	0.4
HC Emissions (g)	5	23	9	15	94	18	90	26	45	19	21	26
CO Emissions (g)	94	376	160	296	1775	376	1565	443	782	345	382	473
NOx Emissions (g)	13	46	22	33	204	41	231	65	119	50	55	70
Vehicles Entered	65	259	142	47	284	57	201	59	85	52	52	55
Vehicles Exited	65	258	142	48	285	57	201	59	85	52	52	56
Hourly Exit Rate	65	258	142	48	285	57	201	59	85	52	52	56
Input Volume	67	257	148	47	284	56	204	58	85	53	52	53
% of Volume	97	100	96	102	100	102	99	102	100	98	100	106
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.4
Denied Del/Veh (s)	1.0
Total Delay (hr)	10.0
Total Del/Veh (s)	26.2
Total Stops	1398
Travel Dist (mi)	228.7
Travel Time (hr)	17.8
Avg Speed (mph)	13
Fuel Used (gal)	8.3
HC Emissions (g)	391
CO Emissions (g)	7067
NOx Emissions (g)	948
Vehicles Entered	1358
Vehicles Exited	1360
Hourly Exit Rate	1360
Input Volume	1364
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	0.7
Denied Del/Veh (s)	1.6
Total Delay (hr)	13.7
Total Del/Veh (s)	29.1
Total Stops	2106
Travel Dist (mi)	968.4
Travel Time (hr)	45.2
Avg Speed (mph)	22
Fuel Used (gal)	38.2
HC Emissions (g)	2244
CO Emissions (g)	45261
NOx Emissions (g)	6112
Vehicles Entered	1657
Vehicles Exited	1656
Hourly Exit Rate	1656
Input Volume	5146
% of Volume	32
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	0.5	8.0	0.0	19
NB I-5 On/Off-Ramp	3	3.6	13.3	0.1	25
Harlan Road	4	22.3	26.7	0.0	6
Total		26.4	48.0	0.2	13

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	49.7	69.8	0.2	10
NB I-5 On/Off-Ramp	3	4.0	8.7	0.0	19
SB I-5 On/Off-Ramp	2	0.8	10.4	0.1	31
Manthey Road	1	5.8	12.6	0.0	12
Total		60.3	101.5	0.4	13

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	SB
Directions Served	L	R	R	LT
Maximum Queue (ft)	72	65	6	80
Average Queue (ft)	21	5	0	10
95th Queue (ft)	53	33	4	43
Link Distance (ft)	143	143		1723
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			50	
Storage Blk Time (%)				
Queuing Penalty (veh)				

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	19	34	76	5	136	111	79
Average Queue (ft)	1	2	17	0	65	45	27
95th Queue (ft)	10	18	52	6	113	89	67
Link Distance (ft)	143	143	422	422		1463	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)						13	3
Queuing Penalty (veh)						22	7

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	76	154	35	23	40	111	237
Average Queue (ft)	17	16	1	1	2	28	71
95th Queue (ft)	50	102	26	10	18	84	173
Link Distance (ft)	422	422	422	157	157	1243	
Upstream Blk Time (%)		0					
Queuing Penalty (veh)		0					
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	LT	R	LT	R	LT	R
Maximum Queue (ft)	145	176	148	500	85	316	167	122	84
Average Queue (ft)	44	97	49	223	53	125	63	53	41
95th Queue (ft)	109	172	109	545	111	265	155	101	84
Link Distance (ft)		157	157	944		1533		1294	
Upstream Blk Time (%)	0	4	0	2					
Queuing Penalty (veh)	0	11	1	0					
Storage Bay Dist (ft)	100				25		125		25
Storage Blk Time (%)	0	16		72	5	13	0	24	10
Queuing Penalty (veh)	1	10		40	17	11	0	13	10

Network Summary

Network wide Queuing Penalty: 143

Appendix B – Existing Plus Project Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

1: Manthey Road & Project Driveway #2/Roth Road Performance by movement

Movement	EBT	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4
Total Del/Veh (s)	6.8	5.8	0.8	1.1	0.6	1.3	1.2	3.3
Total Stops	47	167	0	0	1	4	0	219
Travel Dist (mi)	6.8	6.8	1.0	4.4	10.0	11.9	11.5	52.3
Travel Time (hr)	0.4	0.6	0.1	0.1	0.4	0.3	0.3	2.2
Avg Speed (mph)	19	11	15	33	26	38	42	24
Fuel Used (gal)	0.2	0.2	0.0	0.2	0.3	0.3	0.3	1.6
HC Emissions (g)	7	10	2	15	17	23	26	100
CO Emissions (g)	118	167	31	386	382	433	502	2019
NOx Emissions (g)	18	23	5	40	46	66	76	274
Vehicles Entered	47	167	29	46	107	36	35	467
Vehicles Exited	47	167	29	46	107	36	35	467
Hourly Exit Rate	47	167	29	46	107	36	35	467
Input Volume	49	162	27	44	102	37	33	454
% of Volume	96	103	107	105	105	97	106	103
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.6	2.5	0.8
Total Delay (hr)	0.0	0.0	0.1	0.0	1.0	0.1	1.3
Total Del/Veh (s)	1.3	0.8	3.3	1.2	14.0	4.7	6.0
Total Stops	6	2	39	0	247	81	375
Travel Dist (mi)	5.3	1.9	13.6	11.2	68.3	21.5	121.8
Travel Time (hr)	0.3	0.1	0.6	0.4	3.2	0.9	5.5
Avg Speed (mph)	17	14	22	27	22	27	23
Fuel Used (gal)	0.5	0.1	0.4	0.5	2.0	0.6	4.1
HC Emissions (g)	24	6	27	37	101	32	226
CO Emissions (g)	582	112	570	826	1790	575	4455
NOx Emissions (g)	68	16	68	98	267	88	606
Vehicles Entered	140	51	149	119	246	78	783
Vehicles Exited	140	52	149	119	246	77	783
Hourly Exit Rate	140	52	149	119	246	77	783
Input Volume	139	50	157	115	246	74	781
% of Volume	101	104	95	103	100	104	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.5	3.1	0.5
Total Delay (hr)	0.2	0.2	0.2	0.2	0.2	0.3	1.1
Total Del/Veh (s)	7.7	2.0	2.4	2.1	15.0	5.5	3.5
Total Stops	43	2	2	5	39	166	257
Travel Dist (mi)	6.6	31.0	10.6	12.7	9.2	39.4	109.4
Travel Time (hr)	0.4	1.4	0.6	0.9	0.5	1.7	5.4
Avg Speed (mph)	17	23	18	14	20	25	21
Fuel Used (gal)	0.3	1.8	1.1	0.7	0.3	1.1	5.2
HC Emissions (g)	14	115	54	38	13	57	292
CO Emissions (g)	336	2647	1360	721	238	1015	6317
NOx Emissions (g)	36	310	152	107	35	152	793
Vehicles Entered	72	314	231	271	39	167	1094
Vehicles Exited	72	315	231	271	39	166	1094
Hourly Exit Rate	72	315	231	271	39	166	1094
Input Volume	75	310	232	268	41	172	1098
% of Volume	96	102	100	101	95	97	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.4	0.4	3.6	0.3	0.4	2.6	0.3	0.3	3.1
Total Delay (hr)	0.2	0.9	0.1	0.1	1.0	0.1	0.9	0.2	0.1	0.1	0.0	0.1
Total Del/Veh (s)	8.7	12.8	3.6	14.7	15.7	7.0	14.3	17.1	6.5	8.0	11.6	5.7
Total Stops	71	256	151	22	226	46	218	32	51	29	14	59
Travel Dist (mi)	2.9	10.6	6.2	4.0	40.7	7.2	63.5	9.3	14.6	7.1	3.3	14.2
Travel Time (hr)	0.3	1.3	0.5	0.2	2.2	0.4	2.9	0.4	0.6	0.3	0.1	0.6
Avg Speed (mph)	9	8	12	18	19	22	22	22	26	25	23	25
Fuel Used (gal)	0.1	0.5	0.2	0.1	1.3	0.2	1.8	0.3	0.4	0.2	0.1	0.4
HC Emissions (g)	6	17	9	7	64	15	87	16	24	7	4	21
CO Emissions (g)	95	277	150	142	1296	292	1543	277	419	132	78	380
NOx Emissions (g)	13	36	20	18	163	37	233	42	64	20	12	58
Vehicles Entered	71	259	151	22	225	40	218	32	50	29	14	58
Vehicles Exited	71	259	151	22	225	40	218	32	50	29	14	57
Hourly Exit Rate	71	259	151	22	225	40	218	32	50	29	14	57
Input Volume	70	260	152	27	222	38	222	32	50	29	13	55
% of Volume	101	100	99	81	101	105	98	100	100	100	108	104
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.6
Total Delay (hr)	3.7
Total Del/Veh (s)	11.4
Total Stops	1175
Travel Dist (mi)	183.7
Travel Time (hr)	9.9
Avg Speed (mph)	19
Fuel Used (gal)	5.6
HC Emissions (g)	278
CO Emissions (g)	5081
NOx Emissions (g)	717
Vehicles Entered	1169
Vehicles Exited	1168
Hourly Exit Rate	1168
Input Volume	1170
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

5: Manthey Road & Project Driveway #2 Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)	5.3	3.3	1.3	0.4	2.1	1.2	1.8
Total Stops	48	9	1	0	0	0	58
Travel Dist (mi)	3.8	0.7	1.4	24.9	10.2	9.7	50.7
Travel Time (hr)	0.2	0.0	0.0	0.6	0.4	0.5	1.8
Avg Speed (mph)	16	17	36	44	25	20	29
Fuel Used (gal)	0.1	0.0	0.0	0.7	0.7	0.5	2.1
HC Emissions (g)	5	1	1	57	42	28	134
CO Emissions (g)	76	16	26	1074	1125	664	2979
NOx Emissions (g)	11	2	4	167	114	78	376
Vehicles Entered	48	9	6	105	104	100	372
Vehicles Exited	48	9	6	105	105	99	372
Hourly Exit Rate	48	9	6	105	105	99	372
Input Volume	47	8	7	99	99	97	357
% of Volume	102	112	86	106	106	102	104
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	0.5
Denied Del/Veh (s)	1.2
Total Delay (hr)	7.4
Total Del/Veh (s)	17.3
Total Stops	2113
Travel Dist (mi)	883.8
Travel Time (hr)	37.1
Avg Speed (mph)	24
Fuel Used (gal)	34.5
HC Emissions (g)	2059
CO Emissions (g)	42327
NOx Emissions (g)	5621
Vehicles Entered	1510
Vehicles Exited	1513
Hourly Exit Rate	1513
Input Volume	5361
% of Volume	28
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	3.2	8.4	0.0	18
NB I-5 On/Off-Ramp	3	1.7	11.3	0.1	29
Harlan Road	4	13.3	17.7	0.0	9
Total		18.2	37.4	0.2	17

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	15.7	34.7	0.2	20
NB I-5 On/Off-Ramp	3	3.9	8.6	0.0	19
SB I-5 On/Off-Ramp	2	0.9	10.3	0.1	32
Manthey Road	1	5.8	12.6	0.0	12
Total		26.2	66.1	0.4	20

Intersection: 1: Manthey Road & Project Driveway #2/Roth Road

Movement	EB	EB	WB	WB	NB	NB	SB
Directions Served	LT	TR	L	R	T	R	LT
Maximum Queue (ft)	64	67	113	14	1	15	42
Average Queue (ft)	15	24	41	1	0	1	4
95th Queue (ft)	46	59	81	9	2	8	22
Link Distance (ft)	762	762	142	142	439		1721
Upstream Blk Time (%)			0				
Queuing Penalty (veh)			0				
Storage Bay Dist (ft)						50	
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	30	44	75	6	144	134	85
Average Queue (ft)	2	4	27	0	71	50	41
95th Queue (ft)	15	23	63	0	125	101	81
Link Distance (ft)	142	142	422	422		1463	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)						19	6
Queuing Penalty (veh)						37	15

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	98	44	4	31	40	81	111
Average Queue (ft)	32	2	0	2	4	30	51
95th Queue (ft)	76	23	5	16	20	66	90
Link Distance (ft)	422	422	422	157	157	1243	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	LT	R	LT	R	LT	R
Maximum Queue (ft)	106	158	103	186	84	200	116	87	79
Average Queue (ft)	35	73	40	81	30	85	32	27	35
95th Queue (ft)	77	131	79	152	78	159	81	63	71
Link Distance (ft)		157	157	944		1533		1294	
Upstream Blk Time (%)	0	1	0						
Queuing Penalty (veh)	0	2	0						
Storage Bay Dist (ft)	100				25		125		25
Storage Blk Time (%)	0	4		38	3	4	0	7	8
Queuing Penalty (veh)	0	3		14	8	2	0	4	3

Intersection: 5: Manthey Road & Project Driveway #2

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	79	19	2
Average Queue (ft)	33	1	0
95th Queue (ft)	66	10	3
Link Distance (ft)	419	1246	439
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 89

1: Manthey Road & Project Driveway #2/Roth Road Performance by movement

Movement	EBT	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Total Delay (hr)	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.4
Total Del/Veh (s)	6.8	5.8	0.8	1.1	0.6	1.3	1.2	3.3
Total Stops	47	167	0	0	1	4	0	219
Travel Dist (mi)	6.8	6.8	1.0	4.4	10.0	11.9	11.5	52.3
Travel Time (hr)	0.4	0.6	0.1	0.1	0.4	0.3	0.3	2.2
Avg Speed (mph)	19	11	15	33	26	38	42	24
Fuel Used (gal)	0.2	0.2	0.0	0.2	0.3	0.3	0.3	1.6
HC Emissions (g)	7	10	2	15	17	23	26	100
CO Emissions (g)	118	167	31	386	382	433	502	2019
NOx Emissions (g)	18	23	5	40	46	66	76	274
Vehicles Entered	47	167	29	46	107	36	35	467
Vehicles Exited	47	167	29	46	107	36	35	467
Hourly Exit Rate	47	167	29	46	107	36	35	467
Input Volume	49	162	27	44	102	37	33	454
% of Volume	96	103	107	105	105	97	106	103
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.6	2.5	0.8
Total Delay (hr)	0.0	0.0	0.1	0.0	1.0	0.1	1.3
Total Del/Veh (s)	1.3	0.8	3.3	1.2	14.0	4.7	6.0
Total Stops	6	2	39	0	247	81	375
Travel Dist (mi)	5.3	1.9	13.6	11.2	68.3	21.5	121.8
Travel Time (hr)	0.3	0.1	0.6	0.4	3.2	0.9	5.5
Avg Speed (mph)	17	14	22	27	22	27	23
Fuel Used (gal)	0.5	0.1	0.4	0.5	2.0	0.6	4.1
HC Emissions (g)	24	6	27	37	101	32	226
CO Emissions (g)	582	112	570	826	1790	575	4455
NOx Emissions (g)	68	16	68	98	267	88	606
Vehicles Entered	140	51	149	119	246	78	783
Vehicles Exited	140	52	149	119	246	77	783
Hourly Exit Rate	140	52	149	119	246	77	783
Input Volume	139	50	157	115	246	74	781
% of Volume	101	104	95	103	100	104	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.5	3.1	0.5
Total Delay (hr)	0.2	0.2	0.2	0.2	0.2	0.3	1.1
Total Del/Veh (s)	7.7	2.0	2.4	2.1	15.0	5.5	3.5
Total Stops	43	2	2	5	39	166	257
Travel Dist (mi)	6.6	31.0	10.6	12.7	9.2	39.4	109.4
Travel Time (hr)	0.4	1.4	0.6	0.9	0.5	1.7	5.4
Avg Speed (mph)	17	23	18	14	20	25	21
Fuel Used (gal)	0.3	1.8	1.1	0.7	0.3	1.1	5.2
HC Emissions (g)	14	115	54	38	13	57	292
CO Emissions (g)	336	2647	1360	721	238	1015	6317
NOx Emissions (g)	36	310	152	107	35	152	793
Vehicles Entered	72	314	231	271	39	167	1094
Vehicles Exited	72	315	231	271	39	166	1094
Hourly Exit Rate	72	315	231	271	39	166	1094
Input Volume	75	310	232	268	41	172	1098
% of Volume	96	102	100	101	95	97	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.4	0.4	3.6	0.3	0.4	2.6	0.3	0.3	3.1
Total Delay (hr)	0.2	0.9	0.1	0.1	1.0	0.1	0.9	0.2	0.1	0.1	0.0	0.1
Total Del/Veh (s)	8.7	12.8	3.6	14.7	15.7	7.0	14.3	17.1	6.5	8.0	11.6	5.7
Total Stops	71	256	151	22	226	46	218	32	51	29	14	59
Travel Dist (mi)	2.9	10.6	6.2	4.0	40.7	7.2	63.5	9.3	14.6	7.1	3.3	14.2
Travel Time (hr)	0.3	1.3	0.5	0.2	2.2	0.4	2.9	0.4	0.6	0.3	0.1	0.6
Avg Speed (mph)	9	8	12	18	19	22	22	22	26	25	23	25
Fuel Used (gal)	0.1	0.5	0.2	0.1	1.3	0.2	1.8	0.3	0.4	0.2	0.1	0.4
HC Emissions (g)	6	17	9	7	64	15	87	16	24	7	4	21
CO Emissions (g)	95	277	150	142	1296	292	1543	277	419	132	78	380
NOx Emissions (g)	13	36	20	18	163	37	233	42	64	20	12	58
Vehicles Entered	71	259	151	22	225	40	218	32	50	29	14	58
Vehicles Exited	71	259	151	22	225	40	218	32	50	29	14	57
Hourly Exit Rate	71	259	151	22	225	40	218	32	50	29	14	57
Input Volume	70	260	152	27	222	38	222	32	50	29	13	55
% of Volume	101	100	99	81	101	105	98	100	100	100	108	104
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.2
Denied Del/Veh (s)	0.6
Total Delay (hr)	3.7
Total Del/Veh (s)	11.4
Total Stops	1175
Travel Dist (mi)	183.7
Travel Time (hr)	9.9
Avg Speed (mph)	19
Fuel Used (gal)	5.6
HC Emissions (g)	278
CO Emissions (g)	5081
NOx Emissions (g)	717
Vehicles Entered	1169
Vehicles Exited	1168
Hourly Exit Rate	1168
Input Volume	1170
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

5: Manthey Road & Project Driveway #2 Performance by movement

Movement	EBL	EBR	NBL	NBT	SBT	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.1	0.1	0.1	0.1	0.0	0.0	0.1
Total Delay (hr)	0.1	0.0	0.0	0.0	0.1	0.0	0.2
Total Del/Veh (s)	5.3	3.3	1.3	0.4	2.1	1.2	1.8
Total Stops	48	9	1	0	0	0	58
Travel Dist (mi)	3.8	0.7	1.4	24.9	10.2	9.7	50.7
Travel Time (hr)	0.2	0.0	0.0	0.6	0.4	0.5	1.8
Avg Speed (mph)	16	17	36	44	25	20	29
Fuel Used (gal)	0.1	0.0	0.0	0.7	0.7	0.5	2.1
HC Emissions (g)	5	1	1	57	42	28	134
CO Emissions (g)	76	16	26	1074	1125	664	2979
NOx Emissions (g)	11	2	4	167	114	78	376
Vehicles Entered	48	9	6	105	104	100	372
Vehicles Exited	48	9	6	105	105	99	372
Hourly Exit Rate	48	9	6	105	105	99	372
Input Volume	47	8	7	99	99	97	357
% of Volume	102	112	86	106	106	102	104
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	0.5
Denied Del/Veh (s)	1.2
Total Delay (hr)	7.4
Total Del/Veh (s)	17.3
Total Stops	2113
Travel Dist (mi)	883.8
Travel Time (hr)	37.1
Avg Speed (mph)	24
Fuel Used (gal)	34.5
HC Emissions (g)	2059
CO Emissions (g)	42327
NOx Emissions (g)	5621
Vehicles Entered	1510
Vehicles Exited	1513
Hourly Exit Rate	1513
Input Volume	5361
% of Volume	28
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	3.2	8.4	0.0	18
NB I-5 On/Off-Ramp	3	1.7	11.3	0.1	29
Harlan Road	4	13.3	17.7	0.0	9
Total		18.2	37.4	0.2	17

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	15.7	34.7	0.2	20
NB I-5 On/Off-Ramp	3	3.9	8.6	0.0	19
SB I-5 On/Off-Ramp	2	0.9	10.3	0.1	32
Manthey Road	1	5.8	12.6	0.0	12
Total		26.2	66.1	0.4	20

Intersection: 1: Manthey Road & Project Driveway #2/Roth Road

Movement	EB	EB	WB	WB	NB	NB	SB
Directions Served	LT	TR	L	R	T	R	LT
Maximum Queue (ft)	64	67	113	14	1	15	42
Average Queue (ft)	15	24	41	1	0	1	4
95th Queue (ft)	46	59	81	9	2	8	22
Link Distance (ft)	762	762	142	142	439		1721
Upstream Blk Time (%)			0				
Queuing Penalty (veh)			0				
Storage Bay Dist (ft)						50	
Storage Blk Time (%)						0	
Queuing Penalty (veh)						0	

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	30	44	75	6	144	134	85
Average Queue (ft)	2	4	27	0	71	50	41
95th Queue (ft)	15	23	63	0	125	101	81
Link Distance (ft)	142	142	422	422		1463	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)						19	6
Queuing Penalty (veh)						37	15

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	98	44	4	31	40	81	111
Average Queue (ft)	32	2	0	2	4	30	51
95th Queue (ft)	76	23	5	16	20	66	90
Link Distance (ft)	422	422	422	157	157	1243	
Upstream Blk Time (%)							
Queuing Penalty (veh)							
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB	SB	SB
Directions Served	L	T	R	LT	R	LT	R	LT	R
Maximum Queue (ft)	106	158	103	186	84	200	116	87	79
Average Queue (ft)	35	73	40	81	30	85	32	27	35
95th Queue (ft)	77	131	79	152	78	159	81	63	71
Link Distance (ft)		157	157	944		1533		1294	
Upstream Blk Time (%)	0	1	0						
Queuing Penalty (veh)	0	2	0						
Storage Bay Dist (ft)	100				25		125		25
Storage Blk Time (%)	0	4		38	3	4	0	7	8
Queuing Penalty (veh)	0	3		14	8	2	0	4	3

Intersection: 5: Manthey Road & Project Driveway #2

Movement	EB	NB	SB
Directions Served	LR	LT	TR
Maximum Queue (ft)	79	19	2
Average Queue (ft)	33	1	0
95th Queue (ft)	66	10	3
Link Distance (ft)	419	1246	439
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Network Summary

Network wide Queuing Penalty: 89

Appendix C – Cumulative Conditions
Synchro Version 11
AM and PM Peak Hour
Technical Calculations

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.6	3.4	3.2	0.2	1.1
Total Delay (hr)	1.6	0.0	0.0	0.3	0.3	0.6	0.2	3.0
Total Del/Veh (s)	14.9	0.1	1.9	22.3	4.6	45.6	16.2	13.9
Total Stops	184	0	23	29	131	46	22	435
Travel Dist (mi)	44.5	0.1	6.2	13.7	56.7	16.9	14.1	152.1
Travel Time (hr)	3.2	0.0	0.3	0.6	2.0	1.1	0.5	7.6
Avg Speed (mph)	14	29	23	23	32	16	28	21
Fuel Used (gal)	1.4	0.0	0.2	0.4	1.6	0.6	0.4	4.6
HC Emissions (g)	72	0	11	28	105	34	31	281
CO Emissions (g)	1271	1	210	553	2173	656	606	5471
NOx Emissions (g)	172	0	29	76	290	91	87	745
Vehicles Entered	377	1	52	47	196	49	41	763
Vehicles Exited	377	1	52	47	196	49	41	763
Hourly Exit Rate	377	1	52	47	196	49	41	763
Input Volume	389	1	51	51	195	51	41	779
% of Volume	97	100	102	92	100	96	101	98
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	22.8	3.8	26.6
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	188.5	170.9	63.0
Total Delay (hr)	0.1	0.0	0.8	0.1	43.4	7.6	52.0
Total Del/Veh (s)	2.3	1.1	7.3	1.0	397.5	372.7	127.1
Total Stops	9	4	175	1	477	106	772
Travel Dist (mi)	20.1	7.9	35.6	34.3	100.9	19.0	217.8
Travel Time (hr)	0.9	0.4	2.1	1.2	69.3	12.0	85.9
Avg Speed (mph)	22	20	17	28	2	2	4
Fuel Used (gal)	1.3	0.4	0.9	1.7	17.2	3.0	24.5
HC Emissions (g)	76	23	42	106	474	85	807
CO Emissions (g)	1833	555	720	2346	7031	1260	13746
NOx Emissions (g)	210	62	99	291	537	95	1294
Vehicles Entered	177	70	390	366	382	71	1456
Vehicles Exited	177	69	389	366	336	64	1401
Hourly Exit Rate	177	69	389	366	336	64	1401
Input Volume	180	68	398	363	439	78	1526
% of Volume	98	102	98	101	76	82	92
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	53	9	62

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.8	3.0	0.4
Total Delay (hr)	0.2	0.2	0.6	0.4	2.0	0.5	4.0
Total Del/Veh (s)	13.4	1.6	3.8	4.2	47.4	7.6	7.5
Total Stops	33	0	5	6	148	245	437
Travel Dist (mi)	4.2	45.3	73.8	46.0	34.9	58.3	262.5
Travel Time (hr)	0.3	1.9	3.0	2.3	3.1	2.7	13.2
Avg Speed (mph)	13	24	25	20	11	24	20
Fuel Used (gal)	0.1	2.8	3.9	1.8	1.4	1.7	11.7
HC Emissions (g)	6	171	232	105	61	93	668
CO Emissions (g)	122	3929	4719	2141	1087	1738	13736
NOx Emissions (g)	14	471	670	281	142	244	1822
Vehicles Entered	45	466	609	378	147	245	1890
Vehicles Exited	45	466	608	379	148	245	1891
Hourly Exit Rate	45	466	608	379	148	245	1891
Input Volume	48	570	611	378	150	235	1993
% of Volume	94	82	99	100	99	104	95
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.3	2.0	2.4	0.5	2.4	2.8	0.5	2.7
Total Delay (hr)	1.1	2.2	0.2	0.9	3.7	0.2	2.8	0.4	0.1	0.9	0.3	0.2
Total Del/Veh (s)	41.2	16.0	4.4	46.1	19.2	5.9	45.0	29.5	7.1	40.5	33.6	8.1
Total Stops	87	242	64	70	372	66	210	30	41	75	24	73
Travel Dist (mi)	10.6	56.3	14.2	21.0	200.8	36.1	71.9	14.0	17.5	23.2	8.6	25.9
Travel Time (hr)	1.5	4.1	0.8	1.6	9.5	1.4	5.1	0.8	0.7	1.7	0.5	1.1
Avg Speed (mph)	7	14	19	13	21	26	14	19	26	14	16	25
Fuel Used (gal)	0.6	2.5	0.5	0.8	6.6	1.1	2.6	0.5	0.5	0.9	0.3	0.8
HC Emissions (g)	27	135	28	37	351	56	124	22	27	38	14	38
CO Emissions (g)	529	2652	583	649	6350	1085	2118	387	464	669	250	676
NOx Emissions (g)	62	351	75	92	940	154	316	59	74	96	37	103
Vehicles Entered	93	494	124	71	682	122	216	42	52	82	30	91
Vehicles Exited	93	492	124	72	680	123	216	41	52	82	30	91
Hourly Exit Rate	93	492	124	72	680	123	216	41	52	82	30	91
Input Volume	105	558	143	72	680	122	214	41	51	82	31	95
% of Volume	88	88	87	101	100	100	101	101	102	100	98	96
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.8
Total Delay (hr)	12.9
Total Del/Veh (s)	21.9
Total Stops	1354
Travel Dist (mi)	500.2
Travel Time (hr)	28.9
Avg Speed (mph)	18
Fuel Used (gal)	17.6
HC Emissions (g)	899
CO Emissions (g)	16414
NOx Emissions (g)	2360
Vehicles Entered	2099
Vehicles Exited	2096
Hourly Exit Rate	2096
Input Volume	2193
% of Volume	96
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	27.5
Denied Del/Veh (s)	37.7
Total Delay (hr)	73.3
Total Del/Veh (s)	99.4
Total Stops	2998
Travel Dist (mi)	1873.0
Travel Time (hr)	159.8
Avg Speed (mph)	14
Fuel Used (gal)	89.3
HC Emissions (g)	4593
CO Emissions (g)	89198
NOx Emissions (g)	11672
Vehicles Entered	2569
Vehicles Exited	2514
Hourly Exit Rate	2514
Input Volume	9118
% of Volume	28
Denied Entry Before	0
Denied Entry After	62

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	2.1	18.1	0.1	24
NB I-5 On/Off-Ramp	3	1.2	10.8	0.1	30
Harlan Road	4	16.0	27.8	0.1	15
Total		19.2	56.7	0.3	21

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	19.2	49.9	0.3	22
NB I-5 On/Off-Ramp	3	4.3	17.0	0.1	25
SB I-5 On/Off-Ramp	2	0.6	10.0	0.1	33
Manthey Road	1	15.7	30.2	0.1	14
Total		39.8	107.1	0.6	21

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	287	68	92	114	116	109
Average Queue (ft)	137	14	30	53	46	25
95th Queue (ft)	242	44	75	94	96	74
Link Distance (ft)	553	553	1528			1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)				300	100	
Storage Blk Time (%)					2	0
Queuing Penalty (veh)					1	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	31	59	230	12	1	585	1466	85
Average Queue (ft)	2	8	86	0	0	515	1107	62
95th Queue (ft)	15	33	175	5	2	729	1931	123
Link Distance (ft)	553	553	425	425	425		1469	
Upstream Blk Time (%)							49	
Queuing Penalty (veh)							0	
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)						33	96	6
Queuing Penalty (veh)						98	284	26

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	92	1	4	75	95	269	145
Average Queue (ft)	28	0	0	3	6	116	71
95th Queue (ft)	70	2	5	52	59	245	124
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				0	0		
Queuing Penalty (veh)				0	0		
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	168	199	213	115	220	312	309	184	180	187	135	91
Average Queue (ft)	73	86	99	31	68	157	132	35	95	90	33	26
95th Queue (ft)	141	163	177	79	154	270	253	103	161	162	86	67
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)			1	0	0	6	3		0	0	2	0
Queuing Penalty (veh)			1	0	1	4	4		0	0	6	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	88	130	98	103
Average Queue (ft)	14	54	25	38
95th Queue (ft)	52	105	68	81
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)		0	1	1
Queuing Penalty (veh)		0	2	1

Network Summary

Network wide Queuing Penalty: 428

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.7	26.9
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	32	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	68	100
Cycles with Peds (%)	0	11	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	8.8	42.8	9.8	13.5	10.2	40.9	8.0	16.7
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	18	0	0	0	11	0	11	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	3
Cycles Maxed Out (%)	15	100	77	15	16	100	31	13
Cycles with Peds (%)	0	13	0	10	0	10	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.6
Denied Del/Veh (s)	0.0	0.0	0.0	1.3	3.1	3.2	0.4	1.7
Total Delay (hr)	1.7	0.0	0.1	0.8	1.7	1.2	0.2	5.7
Total Del/Veh (s)	20.0	0.3	2.7	22.3	11.4	44.8	12.9	16.6
Total Stops	176	0	51	70	333	88	28	746
Travel Dist (mi)	36.4	0.1	11.5	35.8	152.3	32.4	22.6	291.0
Travel Time (hr)	3.0	0.0	0.5	1.6	6.3	2.1	0.7	14.3
Avg Speed (mph)	12	33	23	23	26	16	30	21
Fuel Used (gal)	1.1	0.0	0.3	1.1	3.9	1.2	0.7	8.2
HC Emissions (g)	51	0	15	58	237	70	45	476
CO Emissions (g)	830	0	258	1240	4660	1365	916	9269
NOx Emissions (g)	115	0	38	153	620	185	127	1238
Vehicles Entered	308	1	96	123	527	94	65	1214
Vehicles Exited	307	1	96	124	525	94	65	1212
Hourly Exit Rate	307	1	96	124	525	94	65	1212
Input Volume	358	1	112	122	531	92	61	1278
% of Volume	86	133	85	101	99	102	106	95
Denied Entry Before	0	0	0	0	1	0	0	1
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	163.7	16.7	180.4
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1087.4	1054.8	336.2
Total Delay (hr)	0.3	0.2	4.3	0.1	63.4	6.4	74.8
Total Del/Veh (s)	3.6	2.4	48.1	1.1	1207.7	1216.4	173.7
Total Stops	15	40	313	1	174	22	565
Travel Dist (mi)	38.0	32.5	29.2	36.9	40.1	4.2	180.9
Travel Time (hr)	1.8	1.8	5.4	1.4	228.3	23.3	261.9
Avg Speed (mph)	21	19	5	27	1	1	2
Fuel Used (gal)	2.3	1.6	1.6	2.0	51.1	5.2	63.8
HC Emissions (g)	132	92	54	119	1270	112	1780
CO Emissions (g)	3026	2017	841	2699	17609	1590	27782
NOx Emissions (g)	362	253	86	329	966	85	2082
Vehicles Entered	334	285	321	393	168	17	1518
Vehicles Exited	333	286	320	393	120	13	1465
Hourly Exit Rate	333	286	320	393	120	13	1465
Input Volume	343	281	327	414	542	56	1963
% of Volume	97	102	98	95	22	23	75
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	374	40	414

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	2.2	3.7	5.9
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	39.0	41.8	10.3
Total Delay (hr)	0.5	0.2	1.4	1.0	17.0	4.3	24.4
Total Del/Veh (s)	22.6	1.8	9.6	6.6	296.6	50.1	42.6
Total Stops	63	1	67	24	202	372	729
Travel Dist (mi)	7.7	35.2	64.5	66.7	45.9	71.8	291.8
Travel Time (hr)	0.8	1.3	3.5	3.7	20.6	10.4	40.3
Avg Speed (mph)	10	26	19	18	2	11	8
Fuel Used (gal)	0.3	2.1	3.5	2.6	5.4	4.0	17.8
HC Emissions (g)	12	128	197	156	156	178	827
CO Emissions (g)	224	2993	4023	3000	2436	3269	15945
NOx Emissions (g)	26	352	552	411	208	376	1924
Vehicles Entered	82	371	532	550	201	308	2044
Vehicles Exited	83	372	533	551	180	298	2017
Hourly Exit Rate	83	372	533	551	180	298	2017
Input Volume	85	800	534	552	208	317	2495
% of Volume	98	46	100	100	87	94	81
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	5	9	14

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.4	1.9	2.4	0.7	2.3	2.6	0.7	2.7
Total Delay (hr)	1.0	2.9	0.1	1.6	5.9	0.6	3.4	0.6	0.6	2.6	0.7	0.4
Total Del/Veh (s)	41.4	20.8	5.7	50.0	27.9	11.5	56.8	30.5	14.0	45.8	31.6	12.5
Total Stops	79	293	52	120	507	119	215	52	122	191	64	96
Travel Dist (mi)	9.7	56.9	9.7	33.4	220.8	52.6	70.0	23.2	49.4	56.0	23.6	34.3
Travel Time (hr)	1.4	4.8	0.6	2.7	12.3	2.4	5.7	1.3	2.3	4.5	1.4	1.6
Avg Speed (mph)	7	12	17	13	18	23	13	18	23	13	17	22
Fuel Used (gal)	0.6	2.8	0.4	1.3	7.7	1.7	2.7	0.7	1.5	2.2	0.8	1.0
HC Emissions (g)	25	143	23	59	394	89	124	38	75	99	37	52
CO Emissions (g)	487	2819	462	1040	7113	1683	2083	641	1288	1731	646	908
NOx Emissions (g)	56	365	61	146	1027	236	308	99	202	246	95	137
Vehicles Entered	85	500	85	114	750	178	210	70	148	197	83	121
Vehicles Exited	86	500	85	114	749	178	212	70	148	196	83	121
Hourly Exit Rate	86	500	85	114	749	178	212	70	148	196	83	121
Input Volume	145	828	143	112	756	174	210	72	143	194	82	120
% of Volume	59	60	59	101	99	102	101	98	103	101	102	101
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.7
Denied Del/Veh (s)	1.0
Total Delay (hr)	20.5
Total Del/Veh (s)	28.6
Total Stops	1910
Travel Dist (mi)	639.7
Travel Time (hr)	41.0
Avg Speed (mph)	16
Fuel Used (gal)	23.4
HC Emissions (g)	1156
CO Emissions (g)	20901
NOx Emissions (g)	2979
Vehicles Entered	2541
Vehicles Exited	2542
Hourly Exit Rate	2542
Input Volume	2978
% of Volume	85
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	187.7
Denied Del/Veh (s)	177.5
Total Delay (hr)	127.6
Total Del/Veh (s)	130.8
Total Stops	3950
Travel Dist (mi)	2375.7
Travel Time (hr)	389.7
Avg Speed (mph)	12
Fuel Used (gal)	154.0
HC Emissions (g)	6765
CO Emissions (g)	125701
NOx Emissions (g)	15336
Vehicles Entered	3378
Vehicles Exited	3295
Hourly Exit Rate	3295
Input Volume	12504
% of Volume	26
Denied Entry Before	1
Denied Entry After	428

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	3.4	19.5	0.1	22
NB I-5 On/Off-Ramp	3	1.8	11.4	0.1	29
Harlan Road	4	20.7	32.6	0.1	13
Total		25.9	63.5	0.3	19

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	27.9	58.7	0.3	19
NB I-5 On/Off-Ramp	3	9.5	22.1	0.1	19
SB I-5 On/Off-Ramp	2	0.7	10.1	0.1	32
Manthey Road	1	20.2	34.6	0.1	13
Total		58.3	125.5	0.6	18

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	270	77	171	268	148	164
Average Queue (ft)	133	25	65	125	76	36
95th Queue (ft)	239	59	139	216	134	109
Link Distance (ft)	554	554	1529			1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)				300	100	
Storage Blk Time (%)				0	7	0
Queuing Penalty (veh)				0	4	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	30	106	426	26	8	585	1521	85
Average Queue (ft)	1	26	214	1	0	541	1392	19
95th Queue (ft)	15	71	421	22	6	647	1855	78
Link Distance (ft)	554	554	425	425	425		1469	
Upstream Blk Time (%)			5				85	
Queuing Penalty (veh)			11				0	
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)						57	99	1
Queuing Penalty (veh)						188	322	7

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	122	11	10	313	199	1190	624
Average Queue (ft)	49	0	0	49	34	652	303
95th Queue (ft)	100	6	6	272	206	1402	790
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				1	0	22	
Queuing Penalty (veh)				6	3	0	
Storage Bay Dist (ft)							625
Storage Blk Time (%)						36	0
Queuing Penalty (veh)						114	0

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	176	207	243	167	234	469	471	235	194	210	287	133
Average Queue (ft)	69	98	117	32	108	205	205	74	93	102	73	59
95th Queue (ft)	141	178	203	99	218	433	439	203	175	193	284	116
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	0	2	0	2	11	9	0	2	3	5	3
Queuing Penalty (veh)	0	0	3	0	6	12	16	0	5	6	18	9

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	181	198	195	130
Average Queue (ft)	66	106	61	54
95th Queue (ft)	145	173	144	113
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	0	6	3
Queuing Penalty (veh)	0	1	19	8

Network Summary

Network wide Queuing Penalty: 760

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.3	32.9
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	11	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	89	100
Cycles with Peds (%)	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	10.1	35.5	9.3	18.4	9.5	36.8	9.3	18.4
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	NA	NA
Cycles Skipped (%)	5	0	0	0	13	0	0	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	31	100	82	23	18	100	85	23
Cycles with Peds (%)	0	8	0	10	0	11	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Appendix D – Cumulative Plus Project Conditions With Side Street Stop Controlled I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0		0.0	0.0	0.0	3.2	0.2	0.2
Total Delay (hr)	1.8	0.0	0.0	0.3	0.4	0.6	0.2	3.4
Total Del/Veh (s)	15.5		1.7	21.3	4.7	46.3	15.8	13.4
Total Stops	207	0	19	32	195	47	23	523
Travel Dist (mi)	50.4	0.0	5.5	3.1	17.2	17.0	14.8	108.2
Travel Time (hr)	3.6	0.0	0.2	0.4	1.2	1.1	0.5	7.1
Avg Speed (mph)	14	26	24	8	14	16	28	15
Fuel Used (gal)	1.6	0.0	0.1	0.2	0.5	0.6	0.4	3.4
HC Emissions (g)	79	0	9	8	23	35	36	190
CO Emissions (g)	1345	1	170	148	412	688	697	3460
NOx Emissions (g)	187	0	24	17	54	95	101	477
Vehicles Entered	427	0	46	52	287	49	43	904
Vehicles Exited	427	0	46	52	287	49	43	904
Hourly Exit Rate	427	0	46	52	287	49	43	904
Input Volume	480	0	51	52	286	51	41	961
% of Volume	89	0	90	100	100	96	106	94
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	75.1	19.2	94.3
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	606.1	610.9	198.4
Total Delay (hr)	0.1	0.0	1.1	0.1	49.2	12.2	62.8
Total Del/Veh (s)	2.2	1.2	10.1	1.1	623.2	610.7	149.4
Total Stops	9	10	240	1	338	87	685
Travel Dist (mi)	26.4	12.0	36.2	39.0	69.9	18.0	201.5
Travel Time (hr)	1.2	0.6	2.4	1.4	126.4	32.0	164.0
Avg Speed (mph)	22	20	15	27	1	1	3
Fuel Used (gal)	1.7	0.7	1.0	2.0	29.2	7.4	41.9
HC Emissions (g)	102	36	43	123	779	205	1289
CO Emissions (g)	2446	851	743	2702	10962	2866	20570
NOx Emissions (g)	278	98	98	338	686	179	1676
Vehicles Entered	231	105	397	418	271	70	1492
Vehicles Exited	232	105	396	417	227	58	1435
Hourly Exit Rate	232	105	396	417	227	58	1435
Input Volume	235	102	398	420	439	112	1708
% of Volume	99	103	99	99	52	52	84
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	175	43	218

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.4	0.5
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	3.1	5.4	1.0
Total Delay (hr)	0.3	0.2	0.7	0.4	8.8	1.1	11.5
Total Del/Veh (s)	16.0	1.5	3.9	4.0	169.6	16.6	21.8
Total Stops	56	0	5	8	185	252	506
Travel Dist (mi)	7.0	37.0	77.2	45.9	43.2	56.5	266.7
Travel Time (hr)	0.6	1.5	3.1	2.3	10.3	3.3	21.2
Avg Speed (mph)	12	25	25	20	4	19	13
Fuel Used (gal)	0.2	2.2	4.1	1.8	3.1	2.0	13.4
HC Emissions (g)	11	141	233	97	112	104	697
CO Emissions (g)	212	3179	4803	2026	1862	2075	14157
NOx Emissions (g)	25	386	674	261	193	262	1802
Vehicles Entered	76	384	638	378	183	238	1897
Vehicles Exited	76	383	637	379	178	237	1890
Hourly Exit Rate	76	383	637	379	178	237	1890
Input Volume	82	593	634	378	184	235	2106
% of Volume	93	65	100	100	97	101	90
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.3	2.0	2.4	0.6	2.4	2.8	0.4	2.8
Total Delay (hr)	0.9	1.9	0.1	0.9	3.7	0.2	3.0	0.4	0.1	0.9	0.3	0.2
Total Del/Veh (s)	43.1	15.5	4.0	43.0	19.0	5.6	48.3	30.4	7.0	39.1	29.8	8.5
Total Stops	73	210	53	69	382	63	216	31	39	73	23	82
Travel Dist (mi)	8.8	49.5	12.6	21.2	205.8	36.1	72.8	13.9	16.8	23.1	8.8	28.2
Travel Time (hr)	1.3	3.5	0.7	1.6	9.7	1.4	5.4	0.8	0.7	1.7	0.5	1.2
Avg Speed (mph)	7	14	19	14	21	26	14	18	26	14	17	24
Fuel Used (gal)	0.5	2.3	0.5	0.8	6.7	1.1	2.7	0.4	0.5	0.8	0.3	0.8
HC Emissions (g)	24	119	29	39	348	62	117	21	28	39	15	39
CO Emissions (g)	463	2388	583	685	6308	1161	2018	361	472	688	254	708
NOx Emissions (g)	53	310	77	98	934	168	297	55	75	99	38	107
Vehicles Entered	77	434	110	72	699	122	218	42	50	81	31	99
Vehicles Exited	77	435	110	72	697	122	218	42	51	81	31	100
Hourly Exit Rate	77	435	110	72	697	122	218	42	51	81	31	100
Input Volume	107	572	148	72	695	122	220	41	51	82	31	97
% of Volume	72	76	74	101	100	100	99	103	100	99	101	103
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.9
Total Delay (hr)	12.6
Total Del/Veh (s)	22.0
Total Stops	1314
Travel Dist (mi)	497.5
Travel Time (hr)	28.5
Avg Speed (mph)	18
Fuel Used (gal)	17.5
HC Emissions (g)	880
CO Emissions (g)	16089
NOx Emissions (g)	2312
Vehicles Entered	2035
Vehicles Exited	2036
Hourly Exit Rate	2036
Input Volume	2238
% of Volume	91
Denied Entry Before	0
Denied Entry After	0

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.1	0.2	3.0	4.1	0.0	0.0	0.9
Total Delay (hr)	0.0	0.1	0.1	0.0	0.1	0.1	0.5
Total Del/Veh (s)	11.9	4.5	1.4	0.3	4.4	1.1	2.0
Total Stops	9	93	0	0	32	0	134
Travel Dist (mi)	0.3	3.6	56.8	1.7	5.6	24.1	92.1
Travel Time (hr)	0.0	0.3	1.6	0.1	0.4	1.1	3.5
Avg Speed (mph)	7	11	42	38	14	21	28
Fuel Used (gal)	0.0	0.1	1.6	0.0	0.3	2.1	4.1
HC Emissions (g)	0	4	111	4	15	111	245
CO Emissions (g)	7	61	2277	77	295	2925	5641
NOx Emissions (g)	1	8	313	11	43	312	687
Vehicles Entered	9	93	245	7	89	382	825
Vehicles Exited	9	93	245	7	89	382	825
Hourly Exit Rate	9	93	245	7	89	382	825
Input Volume	10	96	241	5	101	420	874
% of Volume	88	97	102	140	88	91	94
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	95.5
Denied Del/Veh (s)	121.0
Total Delay (hr)	92.1
Total Del/Veh (s)	121.8
Total Stops	3162
Travel Dist (mi)	1870.3
Travel Time (hr)	247.1
Avg Speed (mph)	12
Fuel Used (gal)	108.9
HC Emissions (g)	5121
CO Emissions (g)	96810
NOx Emissions (g)	12064
Vehicles Entered	2624
Vehicles Exited	2563
Hourly Exit Rate	2563
Input Volume	10712
% of Volume	24
Denied Entry Before	0
Denied Entry After	218

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	2.1	18.1	0.1	24
NB I-5 On/Off-Ramp	3	1.1	10.6	0.1	31
Harlan Road	4	15.3	27.2	0.1	16
Total		18.5	55.9	0.3	21

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	19.0	49.7	0.3	22
NB I-5 On/Off-Ramp	3	4.5	17.1	0.1	25
SB I-5 On/Off-Ramp	2	0.6	10.0	0.1	33
Manthey Road	1	15.7	30.2	0.1	14
Total		39.8	107.0	0.6	21

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	326	55	104	129	124	100
Average Queue (ft)	150	12	34	66	46	26
95th Queue (ft)	261	38	82	109	99	72
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					2	0
Queuing Penalty (veh)					1	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	44	62	268	20	585	1521	85
Average Queue (ft)	2	10	105	1	540	1348	49
95th Queue (ft)	18	37	204	11	700	1950	117
Link Distance (ft)	553	553	425	425		1469	
Upstream Blk Time (%)			0			76	
Queuing Penalty (veh)			0			0	
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)					28	96	6
Queuing Penalty (veh)					93	320	27

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	R	LT	R
Maximum Queue (ft)	107	7	45	56	677	323
Average Queue (ft)	43	0	2	6	340	115
95th Queue (ft)	92	6	23	30	823	398
Link Distance (ft)	425	425	543	543	1249	
Upstream Blk Time (%)					3	
Queuing Penalty (veh)					0	
Storage Bay Dist (ft)						625
Storage Blk Time (%)					8	0
Queuing Penalty (veh)					18	0

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	164	180	198	103	215	340	325	194	187	196	124	82
Average Queue (ft)	63	74	88	27	70	164	136	36	96	93	33	26
95th Queue (ft)	132	147	167	71	158	283	267	109	168	172	91	63
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	0	1	0	0	7	3	0	0	0	2	0
Queuing Penalty (veh)	0	0	1	0	0	5	3	0	0	0	5	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	85	119	118	115
Average Queue (ft)	14	54	25	40
95th Queue (ft)	53	105	74	84
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)		0	1	1
Queuing Penalty (veh)		0	2	1

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	NB	SB
Directions Served	L	R	T	TR	L
Maximum Queue (ft)	61	103	2	6	93
Average Queue (ft)	10	45	0	0	28
95th Queue (ft)	40	83	2	4	72
Link Distance (ft)	200	200	1220		
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)				150	150
Storage Blk Time (%)					0
Queuing Penalty (veh)					0

Network Summary

Network wide Queuing Penalty: 477

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.5	26.7
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	29	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	71	100
Cycles with Peds (%)	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.2	42.5	9.8	13.5	9.4	42.3	8.1	17.0
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	16	0	0	0	16	0	14	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	0
Cycles Maxed Out (%)	11	100	83	13	13	100	29	13
Cycles with Peds (%)	0	13	0	10	0	10	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	3.2	0.3	0.2
Total Delay (hr)	1.6	0.0	0.1	0.6	2.5	1.1	0.2	6.1
Total Del/Veh (s)	19.6	0.3	2.8	19.3	13.8	44.0	12.3	17.0
Total Stops	174	0	40	66	452	82	28	842
Travel Dist (mi)	34.4	0.1	8.2	7.1	40.0	30.8	22.2	142.8
Travel Time (hr)	2.8	0.0	0.4	0.8	4.4	2.0	0.7	11.1
Avg Speed (mph)	12	35	23	9	9	16	31	13
Fuel Used (gal)	1.0	0.0	0.2	0.4	1.5	1.1	0.7	4.9
HC Emissions (g)	46	0	12	17	70	64	48	257
CO Emissions (g)	727	1	201	329	1099	1256	956	4569
NOx Emissions (g)	102	0	31	39	140	169	133	614
Vehicles Entered	290	1	68	116	658	89	64	1286
Vehicles Exited	291	1	69	117	658	89	64	1289
Hourly Exit Rate	291	1	69	117	658	89	64	1289
Input Volume	480	1	112	123	654	92	61	1524
% of Volume	61	100	61	95	101	97	104	85
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	227.0	42.3	269.3
Denied Del/Veh (s)	0.0	0.0	0.2	0.0	1488.8	1477.1	469.3
Total Delay (hr)	0.4	0.3	11.2	0.2	61.0	10.7	83.7
Total Del/Veh (s)	3.7	2.8	127.4	1.7	2551.7	2569.0	197.6
Total Stops	11	50	332	0	65	12	470
Travel Dist (mi)	47.3	37.7	27.9	33.2	10.7	1.9	158.8
Travel Time (hr)	2.3	2.1	12.2	1.3	288.3	53.0	359.2
Avg Speed (mph)	21	18	2	26	0	0	2
Fuel Used (gal)	2.8	1.9	3.2	2.0	63.8	11.7	85.4
HC Emissions (g)	169	116	88	124	1595	313	2406
CO Emissions (g)	3798	2427	1329	2872	21872	4255	36553
NOx Emissions (g)	466	316	115	342	1141	224	2603
Vehicles Entered	416	332	310	356	59	11	1484
Vehicles Exited	416	332	301	356	23	4	1432
Hourly Exit Rate	416	332	301	356	23	4	1432
Input Volume	419	327	327	492	542	102	2208
% of Volume	99	102	92	72	4	4	65
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	490	92	582

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	38.8	49.7	88.5
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	545.9	564.7	153.1
Total Delay (hr)	1.2	0.2	7.9	1.3	29.6	9.4	49.6
Total Del/Veh (s)	33.9	1.8	52.3	8.7	638.7	169.2	94.7
Total Stops	104	0	380	59	129	249	921
Travel Dist (mi)	12.0	29.0	65.1	63.9	35.0	44.6	249.6
Travel Time (hr)	1.7	1.0	10.0	3.8	69.5	60.6	146.6
Avg Speed (mph)	7	28	7	17	1	4	4
Fuel Used (gal)	0.5	1.6	4.3	2.6	16.0	14.5	39.6
HC Emissions (g)	21	106	195	146	375	440	1283
CO Emissions (g)	373	2454	3492	2777	5382	6497	20976
NOx Emissions (g)	43	289	453	384	322	464	1954
Vehicles Entered	129	310	542	528	160	196	1865
Vehicles Exited	128	310	532	528	134	187	1819
Hourly Exit Rate	128	310	532	528	134	187	1819
Input Volume	133	828	562	552	256	317	2646
% of Volume	96	37	95	96	52	59	69
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	96	121	217

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	3.7	1.2	2.5	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.4	1.9	62.9	61.6	62.3	2.7	0.7	2.6
Total Delay (hr)	0.7	2.1	0.1	2.6	14.0	1.7	11.7	2.3	3.8	2.5	0.8	0.7
Total Del/Veh (s)	42.2	19.7	5.0	86.4	64.2	36.5	206.8	119.9	101.8	47.0	33.5	18.5
Total Stops	58	216	34	143	747	145	248	59	133	190	64	102
Travel Dist (mi)	7.0	42.8	7.0	31.6	227.7	50.1	63.7	21.7	43.6	53.9	23.0	35.6
Travel Time (hr)	1.0	3.5	0.4	3.7	20.6	3.5	17.3	4.2	7.7	4.4	1.5	1.9
Avg Speed (mph)	7	12	18	9	11	15	5	7	8	13	16	20
Fuel Used (gal)	0.4	2.0	0.3	1.5	9.7	1.9	5.2	1.4	2.6	2.1	0.8	1.1
HC Emissions (g)	18	100	15	62	453	92	191	47	96	91	40	54
CO Emissions (g)	339	1937	294	1084	7998	1707	2944	765	1524	1604	689	945
NOx Emissions (g)	40	255	39	142	1083	231	324	94	184	228	102	142
Vehicles Entered	61	375	61	108	778	171	196	67	134	190	81	125
Vehicles Exited	63	376	61	107	764	168	181	63	128	189	81	125
Hourly Exit Rate	63	376	61	107	764	168	181	63	128	189	81	125
Input Volume	148	848	148	112	776	174	214	72	143	194	82	122
% of Volume	42	44	41	95	98	97	84	88	90	97	99	102
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	14	5	9	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	7.9
Denied Del/Veh (s)	11.9
Total Delay (hr)	43.1
Total Del/Veh (s)	65.1
Total Stops	2139
Travel Dist (mi)	607.6
Travel Time (hr)	69.6
Avg Speed (mph)	10
Fuel Used (gal)	28.8
HC Emissions (g)	1258
CO Emissions (g)	21830
NOx Emissions (g)	2863
Vehicles Entered	2347
Vehicles Exited	2306
Hourly Exit Rate	2306
Input Volume	3035
% of Volume	76
Denied Entry Before	0
Denied Entry After	28

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.2	0.5	0.0	0.0	0.0	0.7
Denied Del/Veh (s)	6.5	5.4	2.9	3.2	0.0	0.0	2.3
Total Delay (hr)	0.1	1.2	1.1	0.0	0.4	0.1	2.8
Total Del/Veh (s)	30.8	30.7	6.2	2.8	14.6	1.3	8.7
Total Stops	7	129	63	1	64	0	264
Travel Dist (mi)	0.2	5.3	147.2	2.7	5.4	17.0	177.9
Travel Time (hr)	0.1	1.7	4.9	0.1	0.6	0.8	8.2
Avg Speed (mph)	3	4	33	32	9	22	24
Fuel Used (gal)	0.0	0.5	3.8	0.1	0.3	1.4	6.1
HC Emissions (g)	0	17	265	4	14	73	374
CO Emissions (g)	7	264	5369	84	264	1984	7972
NOx Emissions (g)	1	27	700	11	36	206	980
Vehicles Entered	6	137	637	12	86	269	1147
Vehicles Exited	7	137	636	12	87	269	1148
Hourly Exit Rate	7	137	636	12	87	269	1148
Input Volume	8	135	642	12	131	412	1339
% of Volume	85	102	99	98	67	65	86
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	366.6
Denied Del/Veh (s)	325.7
Total Delay (hr)	187.1
Total Del/Veh (s)	200.0
Total Stops	4636
Travel Dist (mi)	2199.1
Travel Time (hr)	623.2
Avg Speed (mph)	9
Fuel Used (gal)	200.5
HC Emissions (g)	7820
CO Emissions (g)	137468
NOx Emissions (g)	15317
Vehicles Entered	3224
Vehicles Exited	3086
Hourly Exit Rate	3086
Input Volume	14809
% of Volume	21
Denied Entry Before	0
Denied Entry After	827

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	3.6	19.7	0.1	22
NB I-5 On/Off-Ramp	3	1.8	11.5	0.1	29
Harlan Road	4	19.0	30.9	0.1	14
Total		24.4	62.0	0.3	19

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	64.2	94.8	0.3	12
NB I-5 On/Off-Ramp	3	53.3	65.7	0.1	7
SB I-5 On/Off-Ramp	2	1.9	11.3	0.1	29
Manthey Road	1	19.7	34.2	0.1	13
Total		139.2	206.0	0.6	11

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	300	73	169	274	144	167
Average Queue (ft)	131	23	65	177	71	34
95th Queue (ft)	249	58	135	283	129	108
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)				1		
Queuing Penalty (veh)				4		
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					6	0
Queuing Penalty (veh)					4	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	L	LT	R
Maximum Queue (ft)	39	119	446	2	585	1513	68
Average Queue (ft)	2	34	371	0	522	1442	5
95th Queue (ft)	19	85	552	3	620	1697	37
Link Distance (ft)	553	553	425	425		1469	
Upstream Blk Time (%)			31			92	
Queuing Penalty (veh)			84			0	
Storage Bay Dist (ft)					525		25
Storage Blk Time (%)					56	100	0
Queuing Penalty (veh)					210	372	2

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	R	LT	R
Maximum Queue (ft)	214	1	1	561	549	1302	685
Average Queue (ft)	83	0	0	293	202	1098	439
95th Queue (ft)	172	2	2	704	624	1687	958
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				12	7	71	
Queuing Penalty (veh)				67	38	0	
Storage Bay Dist (ft)							625
Storage Blk Time (%)						79	0
Queuing Penalty (veh)						250	1

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	146	179	201	94	231	832	825	235	216	238	938	131
Average Queue (ft)	52	78	86	19	119	372	368	99	128	142	428	50
95th Queue (ft)	115	147	169	59	245	954	952	255	239	276	1508	111
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)						0	0				15	
Queuing Penalty (veh)						0	0				0	
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)			1		2	29	23	0	18	22	5	2
Queuing Penalty (veh)			1		9	32	40	0	39	46	18	7

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	189	229	263	135
Average Queue (ft)	69	109	68	59
95th Queue (ft)	154	187	170	119
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	0	6	6
Queuing Penalty (veh)	0	1	20	17

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	TR	L	T
Maximum Queue (ft)	94	212	190	194	138	11
Average Queue (ft)	14	86	14	39	50	0
95th Queue (ft)	79	180	117	147	105	14
Link Distance (ft)	200	200	1220			259
Upstream Blk Time (%)	1	5				
Queuing Penalty (veh)	0	0				
Storage Bay Dist (ft)				150	150	
Storage Blk Time (%)			0	2	0	0
Queuing Penalty (veh)			0	7	1	0

Network Summary

Network wide Queuing Penalty: 1268

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.1	33.1
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	13	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	87	100
Cycles with Peds (%)	0	11	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.8	36.1	9.5	18.4	8.9	39.1	9.2	18.8
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	NA	NA
Cycles Skipped (%)	8	0	0	0	24	0	0	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	31	100	90	30	11	100	82	30
Cycles with Peds (%)	0	8	0	10	0	8	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Appendix E – Cumulative Plus Project Conditions With All Way Stop Controlled I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.5	3.4	3.4	0.2	1.1
Total Delay (hr)	2.0	0.0	0.1	0.3	0.2	0.6	0.2	3.4
Total Del/Veh (s)	18.5	3.4	5.5	23.0	4.4	46.1	16.3	15.9
Total Stops	208	0	26	32	128	47	22	463
Travel Dist (mi)	44.6	0.1	6.0	14.8	57.2	17.0	14.4	154.1
Travel Time (hr)	3.6	0.0	0.3	0.7	2.0	1.1	0.5	8.1
Avg Speed (mph)	13	22	19	22	32	16	28	20
Fuel Used (gal)	2.6	0.0	0.3	0.5	1.6	0.6	0.4	6.0
HC Emissions (g)	142	0	24	29	109	37	34	376
CO Emissions (g)	3087	5	540	590	2236	712	662	7833
NOx Emissions (g)	375	0	63	79	300	97	95	1009
Vehicles Entered	378	1	51	51	197	49	42	769
Vehicles Exited	377	1	51	51	198	49	42	769
Hourly Exit Rate	377	1	51	51	198	49	42	769
Input Volume	389	1	51	51	195	51	41	779
% of Volume	97	100	100	100	101	96	103	99
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.9	2.6	0.4
Total Delay (hr)	0.9	0.2	9.3	1.5	2.1	0.2	14.3
Total Del/Veh (s)	18.0	10.3	87.2	15.3	17.8	11.2	34.3
Total Stops	181	65	379	356	438	100	1519
Travel Dist (mi)	20.7	7.5	34.4	33.0	119.2	21.3	236.0
Travel Time (hr)	1.7	0.6	10.5	2.6	5.9	1.0	22.4
Avg Speed (mph)	12	14	3	13	20	23	11
Fuel Used (gal)	1.2	0.4	3.3	1.9	3.5	0.6	10.9
HC Emissions (g)	63	24	101	104	171	33	496
CO Emissions (g)	1429	540	1735	2239	3029	565	9537
NOx Emissions (g)	164	63	188	280	445	86	1227
Vehicles Entered	182	66	379	354	427	76	1484
Vehicles Exited	182	66	371	353	428	76	1476
Hourly Exit Rate	182	66	371	353	428	76	1476
Input Volume	180	68	398	363	439	78	1526
% of Volume	101	98	93	97	97	98	97
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.7	3.0	0.4
Total Delay (hr)	0.1	1.8	8.7	2.4	0.4	0.5	13.9
Total Del/Veh (s)	10.6	11.5	51.5	21.9	10.1	7.3	25.0
Total Stops	45	565	612	391	143	239	1995
Travel Dist (mi)	4.2	55.1	72.1	46.4	33.9	56.9	268.6
Travel Time (hr)	0.3	3.9	11.0	4.2	1.5	2.6	23.4
Avg Speed (mph)	15	14	7	11	23	24	12
Fuel Used (gal)	0.2	3.0	4.1	2.1	1.0	1.6	12.0
HC Emissions (g)	11	161	171	107	48	84	581
CO Emissions (g)	275	3380	3026	1938	872	1533	11025
NOx Emissions (g)	30	436	373	256	127	222	1444
Vehicles Entered	45	564	599	382	144	240	1974
Vehicles Exited	46	564	591	382	143	239	1965
Hourly Exit Rate	46	564	591	382	143	239	1965
Input Volume	48	570	611	378	150	235	1993
% of Volume	96	99	97	101	95	102	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.3	2.0	2.9	1.6	3.2	2.8	0.5	2.8
Total Delay (hr)	1.3	2.8	0.3	1.2	5.8	0.3	5.8	0.7	0.4	0.9	0.3	0.3
Total Del/Veh (s)	44.3	17.9	6.8	55.9	30.5	9.1	94.8	57.2	28.2	40.1	33.8	11.2
Total Stops	96	276	65	79	464	76	233	36	45	72	25	79
Travel Dist (mi)	12.1	64.3	15.6	21.6	200.6	37.1	70.5	14.2	17.5	22.3	8.6	27.3
Travel Time (hr)	1.8	4.9	0.9	1.9	11.7	1.6	8.1	1.1	1.0	1.6	0.5	1.3
Avg Speed (mph)	7	13	17	12	17	24	9	13	18	14	16	23
Fuel Used (gal)	0.9	4.1	0.8	0.9	6.9	1.2	3.3	0.5	0.6	0.8	0.3	0.8
HC Emissions (g)	41	226	51	42	352	62	149	24	31	38	15	44
CO Emissions (g)	900	4940	1106	727	6289	1191	2470	418	512	677	263	775
NOx Emissions (g)	102	607	138	101	913	167	337	61	77	96	39	118
Vehicles Entered	106	562	136	74	681	126	214	43	53	78	30	96
Vehicles Exited	106	562	135	74	679	125	207	42	52	79	31	95
Hourly Exit Rate	106	562	135	74	679	125	207	42	52	79	31	95
Input Volume	105	558	143	72	680	122	214	41	51	82	31	95
% of Volume	101	101	94	103	100	102	97	103	102	97	101	100
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.6
Denied Del/Veh (s)	0.9
Total Delay (hr)	20.1
Total Del/Veh (s)	32.5
Total Stops	1546
Travel Dist (mi)	511.7
Travel Time (hr)	36.5
Avg Speed (mph)	14
Fuel Used (gal)	21.2
HC Emissions (g)	1074
CO Emissions (g)	20266
NOx Emissions (g)	2754
Vehicles Entered	2199
Vehicles Exited	2187
Hourly Exit Rate	2187
Input Volume	2193
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	1.2
Denied Del/Veh (s)	1.6
Total Delay (hr)	53.3
Total Del/Veh (s)	70.7
Total Stops	5523
Travel Dist (mi)	1937.4
Travel Time (hr)	115.5
Avg Speed (mph)	17
Fuel Used (gal)	82.1
HC Emissions (g)	4574
CO Emissions (g)	90640
NOx Emissions (g)	12180
Vehicles Entered	2623
Vehicles Exited	2592
Hourly Exit Rate	2592
Input Volume	9118
% of Volume	28
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	17.7	33.8	0.1	13
NB I-5 On/Off-Ramp	3	13.5	22.8	0.1	14
Harlan Road	4	18.6	30.5	0.1	14
Total		49.8	87.1	0.3	14

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	30.5	61.2	0.3	18
NB I-5 On/Off-Ramp	3	51.4	63.7	0.1	7
SB I-5 On/Off-Ramp	2	16.6	25.9	0.1	13
Manthey Road	1	19.0	33.5	0.1	13
Total		117.5	184.3	0.6	12

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	286	132	113	109	122	98
Average Queue (ft)	145	20	34	52	48	24
95th Queue (ft)	243	69	84	90	104	68
Link Distance (ft)	553	553	1532			1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)				300	100	
Storage Blk Time (%)					3	0
Queuing Penalty (veh)					1	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	115	121	429	136	113	203	233	85
Average Queue (ft)	49	57	315	73	53	78	113	59
95th Queue (ft)	92	101	532	114	93	151	193	110
Link Distance (ft)	553	553	425	425	425		1469	
Upstream Blk Time (%)			14					
Queuing Penalty (veh)			36					
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)							62	10
Queuing Penalty (veh)							184	43

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	TR	LT	R
Maximum Queue (ft)	66	115	122	491	495	136	141
Average Queue (ft)	28	64	72	294	256	58	69
95th Queue (ft)	59	97	106	587	519	105	118
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				4	1		
Queuing Penalty (veh)				21	3		
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	200	206	208	132	224	466	445	214	203	231	504	90
Average Queue (ft)	81	92	112	31	81	202	184	50	107	122	132	26
95th Queue (ft)	157	167	185	87	189	463	442	158	206	229	675	67
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)											1	
Queuing Penalty (veh)											0	
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	0	1		1	14	6	0	7	7	3	0
Queuing Penalty (veh)	0	0	1		2	10	8	0	6	7	7	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	90	126	100	109
Average Queue (ft)	15	53	24	42
95th Queue (ft)	53	103	68	89
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)		0	1	2
Queuing Penalty (veh)		0	2	2

Network Summary

Network wide Queuing Penalty: 334

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.7	27.2
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	34	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	66	100
Cycles with Peds (%)	0	14	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.1	42.4	9.9	13.6	10.4	39.8	8.1	17.2
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	16	0	0	0	8	0	14	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	0
Cycles Maxed Out (%)	13	100	86	13	18	100	29	13
Cycles with Peds (%)	0	13	0	10	0	10	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.3	1.8	0.1	0.0	2.3
Denied Del/Veh (s)	0.0	0.0	0.0	9.9	12.4	3.1	0.3	6.4
Total Delay (hr)	2.5	0.0	0.2	2.2	11.6	3.7	1.0	21.2
Total Del/Veh (s)	25.1	3.3	6.2	62.4	78.6	143.0	60.1	59.4
Total Stops	227	0	64	95	421	104	48	959
Travel Dist (mi)	42.0	0.1	13.3	35.1	149.6	31.3	21.1	292.4
Travel Time (hr)	4.0	0.0	0.7	3.3	17.6	4.6	1.5	31.6
Avg Speed (mph)	11	23	19	12	10	7	14	10
Fuel Used (gal)	2.6	0.0	0.7	1.5	6.3	1.7	0.8	13.6
HC Emissions (g)	139	0	44	66	280	83	47	659
CO Emissions (g)	2910	4	1038	1340	5059	1574	960	12884
NOx Emissions (g)	359	0	116	156	581	182	122	1517
Vehicles Entered	355	1	112	123	528	92	62	1273
Vehicles Exited	354	1	111	120	502	86	60	1234
Hourly Exit Rate	354	1	111	120	502	86	60	1234
Input Volume	358	1	112	122	531	92	61	1278
% of Volume	99	133	99	98	94	93	98	97
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	1	7	0	0	8

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.1	0.0	0.3
Denied Del/Veh (s)	0.6	0.5	0.8	0.1	1.0	2.3	0.6
Total Delay (hr)	14.8	9.7	9.3	2.5	4.6	0.3	41.3
Total Del/Veh (s)	165.7	127.4	109.1	21.9	30.1	20.8	77.2
Total Stops	317	228	306	417	573	88	1929
Travel Dist (mi)	35.3	30.2	27.6	38.6	150.9	15.9	298.5
Travel Time (hr)	16.2	11.2	10.4	3.9	9.4	0.9	51.9
Avg Speed (mph)	2	3	3	10	16	19	6
Fuel Used (gal)	4.5	3.2	3.1	2.4	4.7	0.5	18.4
HC Emissions (g)	135	95	98	121	218	25	692
CO Emissions (g)	2252	1561	1659	2504	3810	432	12219
NOx Emissions (g)	222	153	174	317	542	63	1471
Vehicles Entered	318	271	306	412	540	57	1904
Vehicles Exited	300	260	295	411	539	57	1862
Hourly Exit Rate	300	260	295	411	539	57	1862
Input Volume	343	281	327	414	542	56	1963
% of Volume	87	93	90	99	100	101	95
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.1	0.0	0.9	2.9	0.5
Total Delay (hr)	0.2	3.8	10.3	10.0	0.9	1.6	26.8
Total Del/Veh (s)	12.5	17.5	70.3	65.6	16.4	17.1	39.3
Total Stops	67	773	561	553	206	322	2482
Travel Dist (mi)	6.3	74.9	62.6	64.8	48.6	76.5	333.7
Travel Time (hr)	0.5	6.5	12.3	12.6	2.5	4.4	38.7
Avg Speed (mph)	14	11	5	5	20	19	9
Fuel Used (gal)	0.4	4.2	4.2	4.2	1.4	2.3	16.6
HC Emissions (g)	17	213	157	149	73	115	724
CO Emissions (g)	417	4311	2630	2403	1326	2090	13178
NOx Emissions (g)	48	565	311	273	189	289	1676
Vehicles Entered	67	772	521	539	206	322	2427
Vehicles Exited	67	771	513	531	205	322	2409
Hourly Exit Rate	67	771	513	531	205	322	2409
Input Volume	85	800	534	552	208	317	2495
% of Volume	79	96	96	96	99	102	97
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.4	1.9	2.4	0.8	2.3	2.7	0.7	2.7
Total Delay (hr)	1.9	6.3	0.4	2.7	15.7	2.2	10.1	1.3	2.1	2.7	0.7	0.6
Total Del/Veh (s)	48.6	27.8	10.0	82.5	73.2	46.0	169.8	67.5	53.3	49.1	30.0	17.0
Total Stops	130	535	93	165	890	189	287	74	151	192	64	101
Travel Dist (mi)	15.8	93.0	16.2	34.4	222.8	50.7	68.1	23.5	46.8	54.3	24.1	34.4
Travel Time (hr)	2.5	9.3	1.1	3.9	22.2	4.0	12.3	2.0	3.7	4.5	1.4	1.8
Avg Speed (mph)	6	10	15	9	10	13	6	12	13	12	17	20
Fuel Used (gal)	1.2	6.1	0.9	1.6	9.8	2.0	4.2	0.9	1.8	2.1	0.8	1.1
HC Emissions (g)	54	308	48	70	439	100	152	46	81	97	39	57
CO Emissions (g)	1114	6330	1009	1205	7670	1832	2475	778	1378	1691	678	1005
NOx Emissions (g)	131	809	132	158	1021	243	307	110	196	240	101	151
Vehicles Entered	138	812	141	118	763	173	208	71	142	191	85	121
Vehicles Exited	138	811	140	116	745	170	193	69	138	191	85	121
Hourly Exit Rate	138	811	140	116	745	170	193	69	138	191	85	121
Input Volume	145	828	143	112	756	174	210	72	143	194	82	120
% of Volume	95	98	98	103	99	98	92	97	97	98	104	101
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.7
Denied Del/Veh (s)	0.9
Total Delay (hr)	46.8
Total Del/Veh (s)	56.2
Total Stops	2871
Travel Dist (mi)	684.1
Travel Time (hr)	68.7
Avg Speed (mph)	10
Fuel Used (gal)	32.5
HC Emissions (g)	1491
CO Emissions (g)	27164
NOx Emissions (g)	3599
Vehicles Entered	2963
Vehicles Exited	2917
Hourly Exit Rate	2917
Input Volume	2978
% of Volume	98
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	3.7
Denied Del/Veh (s)	3.5
Total Delay (hr)	138.9
Total Del/Veh (s)	126.9
Total Stops	8241
Travel Dist (mi)	2700.7
Travel Time (hr)	227.2
Avg Speed (mph)	12
Fuel Used (gal)	127.0
HC Emissions (g)	6420
CO Emissions (g)	123663
NOx Emissions (g)	16313
Vehicles Entered	3807
Vehicles Exited	3659
Hourly Exit Rate	3659
Input Volume	12504
% of Volume	29
Denied Entry Before	0
Denied Entry After	8

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	162.8	177.8	0.1	2
NB I-5 On/Off-Ramp	3	19.4	28.8	0.1	11
Harlan Road	4	28.6	40.5	0.1	11
Total		210.7	247.1	0.3	5

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	73.2	103.6	0.3	11
NB I-5 On/Off-Ramp	3	67.8	80.2	0.1	5
SB I-5 On/Off-Ramp	2	23.8	33.2	0.1	10
Manthey Road	1	25.4	39.9	0.1	11
Total		190.3	257.1	0.6	9

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	297	78	1126	360	156	457
Average Queue (ft)	160	29	420	231	98	140
95th Queue (ft)	260	62	1321	426	174	463
Link Distance (ft)	553	553	1528			1820
Upstream Blk Time (%)			10			
Queuing Penalty (veh)			0			
Storage Bay Dist (ft)				300	100	
Storage Blk Time (%)			0	33	34	2
Queuing Penalty (veh)			0	40	20	1

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	580	575	434	222	166	308	330	85
Average Queue (ft)	408	442	307	107	65	131	166	62
95th Queue (ft)	687	707	517	183	124	247	279	117
Link Distance (ft)	553	553	425	425	425		1469	
Upstream Blk Time (%)	2	15	9					
Queuing Penalty (veh)	7	48	21					
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)							82	8
Queuing Penalty (veh)							269	45

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	TR	LT	R
Maximum Queue (ft)	77	176	185	580	580	229	275
Average Queue (ft)	37	95	105	417	466	88	115
95th Queue (ft)	70	149	163	664	662	184	231
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				4	4		
Queuing Penalty (veh)				19	23		
Storage Bay Dist (ft)							625
Storage Blk Time (%)						0	0
Queuing Penalty (veh)						0	0

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	242	326	346	235	235	838	831	235	228	257	1060	134
Average Queue (ft)	106	182	196	74	137	402	414	135	143	163	300	57
95th Queue (ft)	192	286	309	209	264	946	968	296	261	294	977	120
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)			0									
Queuing Penalty (veh)			0									
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	1	11	0	3	32	36	0	18	27	5	5
Queuing Penalty (veh)	1	2	16	0	10	36	63	0	37	57	18	14

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	183	199	204	133
Average Queue (ft)	70	108	64	60
95th Queue (ft)	153	179	157	120
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	0	5	5
Queuing Penalty (veh)	0	1	17	14

Network Summary

Network wide Queuing Penalty: 781

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.3	32.5
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	8	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	92	100
Cycles with Peds (%)	0	11	0	8

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	10.1	34.4	9.6	19.4	11.5	33.0	9.3	19.7
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	NA	NA
Cycles Skipped (%)	5	0	0	0	3	0	0	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	41	100	95	35	39	100	82	35
Cycles with Peds (%)	0	11	0	13	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	3.2	0.2	0.2
Total Delay (hr)	2.7	0.0	0.1	0.3	0.4	0.6	0.2	4.2
Total Del/Veh (s)	20.3	1.9	5.9	20.5	4.7	42.9	15.7	15.8
Total Stops	275	0	26	28	197	45	21	592
Travel Dist (mi)	56.1	0.0	5.9	2.8	17.2	16.7	14.5	113.3
Travel Time (hr)	4.7	0.0	0.3	0.4	1.2	1.1	0.5	8.2
Avg Speed (mph)	12	24	19	8	14	16	28	14
Fuel Used (gal)	3.4	0.0	0.3	0.1	0.5	0.6	0.4	5.3
HC Emissions (g)	178	0	21	7	22	29	33	289
CO Emissions (g)	3747	3	475	140	393	587	640	5983
NOx Emissions (g)	466	0	56	16	51	78	91	759
Vehicles Entered	476	1	50	47	287	49	42	952
Vehicles Exited	475	1	50	48	287	49	42	952
Hourly Exit Rate	475	1	50	48	287	49	42	952
Input Volume	480	0	51	52	286	51	41	961
% of Volume	99	400	98	92	100	96	103	99
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.1	0.0	0.1	0.1	0.3
Denied Del/Veh (s)	0.0	0.0	1.3	0.1	1.0	2.5	0.7
Total Delay (hr)	1.4	0.4	11.5	1.9	2.4	0.4	18.1
Total Del/Veh (s)	22.2	13.6	111.8	16.2	19.7	13.7	38.6
Total Stops	231	106	368	420	450	147	1722
Travel Dist (mi)	26.2	12.1	33.1	38.9	121.2	31.0	262.5
Travel Time (hr)	2.5	1.0	12.8	3.2	6.3	1.5	27.3
Avg Speed (mph)	11	12	3	12	20	21	10
Fuel Used (gal)	1.6	0.7	3.6	2.3	3.6	0.9	12.6
HC Emissions (g)	73	37	114	121	171	48	564
CO Emissions (g)	1668	820	1824	2577	3037	810	10736
NOx Emissions (g)	191	97	180	325	443	123	1358
Vehicles Entered	230	106	368	418	435	111	1668
Vehicles Exited	231	106	355	417	433	111	1653
Hourly Exit Rate	231	106	355	417	433	111	1653
Input Volume	235	102	398	420	439	112	1708
% of Volume	98	104	89	99	99	99	97
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.3
Denied Del/Veh (s)	0.0	0.0	0.3	0.0	0.8	3.0	0.5
Total Delay (hr)	0.2	2.1	14.2	3.4	0.7	0.6	21.2
Total Del/Veh (s)	11.4	12.7	81.9	33.6	12.9	8.4	36.6
Total Stops	77	588	632	371	184	239	2091
Travel Dist (mi)	7.2	57.3	73.8	43.6	43.5	56.6	282.1
Travel Time (hr)	0.5	4.2	16.6	5.2	2.1	2.6	31.2
Avg Speed (mph)	14	14	4	8	21	23	9
Fuel Used (gal)	0.4	3.1	5.3	2.2	1.3	1.6	13.9
HC Emissions (g)	17	164	192	91	67	88	619
CO Emissions (g)	427	3457	3191	1623	1214	1608	11521
NOx Emissions (g)	47	443	362	206	176	230	1465
Vehicles Entered	78	587	617	361	184	238	2065
Vehicles Exited	77	587	602	357	184	238	2045
Hourly Exit Rate	77	587	602	357	184	238	2045
Input Volume	82	593	634	378	184	235	2106
% of Volume	94	99	95	94	100	101	97
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	1.4	0.4	0.4	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.3	2.1	22.2	31.2	28.6	2.7	0.5	2.8
Total Delay (hr)	1.3	3.0	0.3	1.3	9.0	0.5	12.2	1.3	1.3	0.9	0.3	0.4
Total Del/Veh (s)	44.9	18.6	7.1	66.1	46.2	14.2	198.2	118.1	87.5	41.0	32.4	13.4
Total Stops	94	288	75	90	603	89	267	34	48	75	26	85
Travel Dist (mi)	11.9	65.4	17.4	20.4	204.3	37.6	69.1	12.9	16.8	23.2	9.1	28.6
Travel Time (hr)	1.8	5.1	1.0	2.0	15.0	1.8	15.6	2.1	2.2	1.7	0.6	1.4
Avg Speed (mph)	7	13	17	11	14	22	5	8	9	14	16	22
Fuel Used (gal)	0.9	4.2	1.0	0.9	7.7	1.2	4.9	0.7	0.8	0.9	0.3	0.9
HC Emissions (g)	41	224	54	39	373	70	173	29	35	43	16	43
CO Emissions (g)	894	4935	1179	682	6610	1304	2805	487	580	755	274	755
NOx Emissions (g)	100	599	147	93	922	184	329	63	76	108	41	114
Vehicles Entered	104	571	151	70	694	128	215	40	52	82	32	101
Vehicles Exited	105	571	151	69	686	126	192	37	48	81	32	100
Hourly Exit Rate	105	571	151	69	686	126	192	37	48	81	32	100
Input Volume	107	572	148	72	695	122	220	41	51	82	31	97
% of Volume	98	100	102	97	99	103	87	91	94	99	104	103
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	7	1	2	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	2.5
Denied Del/Veh (s)	4.0
Total Delay (hr)	31.9
Total Del/Veh (s)	50.6
Total Stops	1774
Travel Dist (mi)	516.6
Travel Time (hr)	50.3
Avg Speed (mph)	11
Fuel Used (gal)	24.4
HC Emissions (g)	1139
CO Emissions (g)	21261
NOx Emissions (g)	2776
Vehicles Entered	2240
Vehicles Exited	2198
Hourly Exit Rate	2198
Input Volume	2238
% of Volume	98
Denied Entry Before	0
Denied Entry After	10

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.1	0.2	3.1	4.1	0.0	0.0	0.9
Total Delay (hr)	0.0	0.1	0.1	0.0	0.1	0.1	0.5
Total Del/Veh (s)	11.9	4.5	1.3	0.3	4.3	1.1	2.0
Total Stops	10	94	0	0	34	0	138
Travel Dist (mi)	0.4	3.6	55.4	1.2	6.1	26.6	93.3
Travel Time (hr)	0.1	0.3	1.5	0.0	0.4	1.2	3.6
Avg Speed (mph)	7	11	41	37	14	21	27
Fuel Used (gal)	0.0	0.1	1.5	0.0	0.3	2.3	4.3
HC Emissions (g)	1	3	110	3	16	122	255
CO Emissions (g)	9	51	2263	65	318	3165	5871
NOx Emissions (g)	1	6	309	9	47	343	714
Vehicles Entered	10	94	239	5	97	420	865
Vehicles Exited	10	94	240	5	97	420	866
Hourly Exit Rate	10	94	240	5	97	420	866
Input Volume	10	96	241	5	101	420	874
% of Volume	98	98	99	100	96	100	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	3.4
Denied Del/Veh (s)	4.3
Total Delay (hr)	77.3
Total Del/Veh (s)	95.2
Total Stops	6317
Travel Dist (mi)	2028.7
Travel Time (hr)	145.2
Avg Speed (mph)	14
Fuel Used (gal)	91.4
HC Emissions (g)	4834
CO Emissions (g)	95380
NOx Emissions (g)	12595
Vehicles Entered	2823
Vehicles Exited	2747
Hourly Exit Rate	2747
Input Volume	10712
% of Volume	26
Denied Entry Before	0
Denied Entry After	10

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	22.0	38.3	0.1	11
NB I-5 On/Off-Ramp	3	14.7	24.1	0.1	14
Harlan Road	4	19.5	31.3	0.1	14
Total		56.2	93.7	0.3	13

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	46.2	76.7	0.3	14
NB I-5 On/Off-Ramp	3	81.5	94.1	0.1	5
SB I-5 On/Off-Ramp	2	17.5	26.9	0.1	12
Manthey Road	1	20.9	35.4	0.1	12
Total		166.1	233.2	0.6	10

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	336	151	96	128	109	97
Average Queue (ft)	185	23	29	67	43	24
95th Queue (ft)	295	87	75	109	90	69
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					1	0
Queuing Penalty (veh)					0	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	145	153	442	160	128	225	264	85
Average Queue (ft)	64	71	371	83	60	82	127	69
95th Queue (ft)	117	124	558	131	104	162	219	110
Link Distance (ft)	553	553	425	425	425		1469	
Upstream Blk Time (%)			21					
Queuing Penalty (veh)			57					
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)							66	16
Queuing Penalty (veh)							219	69

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	TR	LT	R
Maximum Queue (ft)	76	119	132	578	580	152	166
Average Queue (ft)	37	66	77	422	349	73	72
95th Queue (ft)	69	99	113	688	623	125	126
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				11	1		
Queuing Penalty (veh)				53	6		
Storage Bay Dist (ft)							625
Storage Blk Time (%)							
Queuing Penalty (veh)							

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	172	198	220	128	235	589	592	234	221	248	913	86
Average Queue (ft)	79	99	117	34	103	275	250	66	140	153	319	22
95th Queue (ft)	149	173	192	89	239	602	574	201	251	282	1204	62
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)											6	
Queuing Penalty (veh)											0	
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	0	1	0	0	31	12	0	23	15	1	0
Queuing Penalty (veh)	0	0	2	0	1	22	15	0	21	14	3	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	100	134	132	114
Average Queue (ft)	17	56	29	45
95th Queue (ft)	60	112	86	92
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)			1	3
Queuing Penalty (veh)			2	3

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	SB
Directions Served	L	R	TR	L
Maximum Queue (ft)	60	92	2	96
Average Queue (ft)	10	43	0	29
95th Queue (ft)	39	78	2	76
Link Distance (ft)	200	200		
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)			150	150
Storage Blk Time (%)				0
Queuing Penalty (veh)				0

Network Summary

Network wide Queuing Penalty: 490

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.8	26.8
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	30	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	70	100
Cycles with Peds (%)	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.2	42.1	9.8	13.9	10.3	39.5	8.2	17.7
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	18	0	0	0	8	0	17	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	0
Cycles Maxed Out (%)	11	100	89	15	21	100	33	15
Cycles with Peds (%)	0	10	0	10	0	13	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.6	0.6	1.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.4	24.7	31.0	3.8
Total Delay (hr)	3.1	0.0	0.2	0.5	6.5	11.0	5.0	26.4
Total Del/Veh (s)	28.3	2.5	6.0	22.2	52.2	436.3	286.6	80.5
Total Stops	271	0	53	50	389	107	64	934
Travel Dist (mi)	46.3	0.0	10.9	5.1	27.3	28.0	19.5	137.1
Travel Time (hr)	4.8	0.0	0.6	0.6	7.8	12.4	6.0	32.2
Avg Speed (mph)	10	22	19	8	4	2	4	4
Fuel Used (gal)	2.9	0.0	0.6	0.3	2.3	3.4	1.8	11.2
HC Emissions (g)	147	0	35	13	78	111	76	460
CO Emissions (g)	2956	3	831	285	1202	1942	1361	8580
NOx Emissions (g)	376	0	93	30	132	179	141	952
Vehicles Entered	392	1	91	83	445	89	62	1163
Vehicles Exited	392	1	91	83	442	67	49	1125
Hourly Exit Rate	392	1	91	83	442	67	49	1125
Input Volume	480	1	112	123	654	92	61	1524
% of Volume	82	100	81	68	68	73	80	74
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	3	2	5

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	19.4	3.3	22.7
Denied Del/Veh (s)	0.0	0.0	0.3	0.1	127.6	116.7	45.1
Total Delay (hr)	20.7	11.8	7.8	7.7	12.5	2.1	62.6
Total Del/Veh (s)	257.9	183.2	110.0	68.0	91.6	82.6	127.7
Total Stops	261	167	252	419	533	136	1768
Travel Dist (mi)	31.3	25.1	22.7	37.5	132.8	25.1	274.5
Travel Time (hr)	21.9	12.9	8.6	9.0	36.0	6.2	94.7
Avg Speed (mph)	1	2	3	4	8	8	4
Fuel Used (gal)	5.5	3.4	2.6	3.4	10.3	1.8	27.1
HC Emissions (g)	161	78	91	140	345	75	890
CO Emissions (g)	2441	1255	1560	2665	5463	1140	14523
NOx Emissions (g)	206	109	167	314	588	125	1508
Vehicles Entered	283	226	251	404	483	91	1738
Vehicles Exited	266	217	244	395	466	88	1676
Hourly Exit Rate	266	217	244	395	466	88	1676
Input Volume	419	327	327	492	542	102	2208
% of Volume	63	66	75	80	86	86	76
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	65	10	75

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	7.0	9.8	16.8
Denied Del/Veh (s)	0.0	0.0	0.1	0.0	101.6	109.4	27.6
Total Delay (hr)	0.3	3.7	13.6	12.1	5.9	2.8	38.3
Total Del/Veh (s)	13.2	20.4	106.2	97.5	93.3	33.8	63.7
Total Stops	82	655	494	442	223	291	2187
Travel Dist (mi)	7.6	63.3	53.9	52.6	51.9	68.4	297.6
Travel Time (hr)	0.6	6.1	15.3	14.2	14.5	14.8	65.3
Avg Speed (mph)	13	10	4	4	7	14	6
Fuel Used (gal)	0.4	3.6	4.6	4.2	4.1	4.5	21.5
HC Emissions (g)	23	186	161	139	138	158	806
CO Emissions (g)	540	3704	2555	2178	2232	2651	13860
NOx Emissions (g)	63	488	273	226	238	292	1580
Vehicles Entered	82	650	450	438	223	290	2133
Vehicles Exited	82	651	441	431	213	287	2105
Hourly Exit Rate	82	651	441	431	213	287	2105
Input Volume	133	828	562	552	256	317	2646
% of Volume	62	79	78	78	83	91	80
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	25	32	57

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	3.3	25.7	6.1	10.0	4.0	7.1	5.4	2.1	3.2
Denied Del/Veh (s)	0.0	0.0	0.0	102.4	118.4	124.2	169.0	190.6	176.8	99.0	93.7	99.6
Total Delay (hr)	1.7	5.2	0.3	5.5	39.7	7.4	23.8	4.7	8.8	4.6	1.8	2.8
Total Del/Veh (s)	49.2	26.7	9.5	183.6	203.4	167.6	462.7	270.8	258.4	90.9	89.1	92.1
Total Stops	114	450	77	186	1067	222	295	72	151	182	55	89
Travel Dist (mi)	13.7	79.7	14.2	29.9	197.7	44.2	55.1	18.7	37.2	49.7	20.0	29.7
Travel Time (hr)	2.2	7.7	0.9	9.8	71.1	14.9	35.5	9.2	17.0	11.5	4.5	7.0
Avg Speed (mph)	6	10	15	5	4	5	2	4	4	8	8	8
Fuel Used (gal)	1.1	5.2	0.8	2.8	20.1	4.3	9.0	2.4	4.5	3.6	1.4	2.1
HC Emissions (g)	48	267	43	95	695	137	281	79	140	115	51	77
CO Emissions (g)	988	5517	915	1512	10809	2251	4125	1206	2131	1929	822	1239
NOx Emissions (g)	118	703	119	161	1085	228	357	113	203	235	99	145
Vehicles Entered	119	695	123	105	696	157	178	61	119	178	72	106
Vehicles Exited	120	697	123	99	640	144	147	53	106	174	69	101
Hourly Exit Rate	120	697	123	99	640	144	147	53	106	174	69	101
Input Volume	148	848	148	112	776	174	214	72	143	194	82	122
% of Volume	81	82	83	88	82	83	69	74	74	90	84	82
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	12	85	20	36	14	25	17	7	11

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	66.9
Denied Del/Veh (s)	84.9
Total Delay (hr)	106.2
Total Del/Veh (s)	144.3
Total Stops	2960
Travel Dist (mi)	589.9
Travel Time (hr)	191.3
Avg Speed (mph)	5
Fuel Used (gal)	57.3
HC Emissions (g)	2027
CO Emissions (g)	33444
NOx Emissions (g)	3566
Vehicles Entered	2609
Vehicles Exited	2473
Hourly Exit Rate	2473
Input Volume	3035
% of Volume	81
Denied Entry Before	0
Denied Entry After	227

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	1.6	26.1	38.7	1.1	0.0	0.0	67.4
Denied Del/Veh (s)	817.4	695.1	218.7	275.6	0.0	0.0	196.5
Total Delay (hr)	0.0	5.3	27.2	0.6	0.3	0.1	33.5
Total Del/Veh (s)	31.0	311.9	188.5	182.3	10.2	1.4	115.7
Total Stops	3	48	293	6	60	0	410
Travel Dist (mi)	0.1	2.1	114.5	2.5	6.4	21.5	147.2
Travel Time (hr)	1.6	31.5	68.4	1.7	0.6	1.0	104.9
Avg Speed (mph)	3	0	4	4	11	21	4
Fuel Used (gal)	0.4	6.9	17.3	0.4	0.4	1.8	27.2
HC Emissions (g)	9	211	501	20	16	101	859
CO Emissions (g)	124	2825	7791	276	308	2565	13888
NOx Emissions (g)	6	153	611	20	45	286	1122
Vehicles Entered	3	60	515	11	101	341	1031
Vehicles Exited	4	53	474	11	102	341	985
Hourly Exit Rate	4	53	474	11	102	341	985
Input Volume	8	135	642	12	131	412	1339
% of Volume	48	39	74	90	78	83	74
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	4	75	122	3	0	0	204

Total Network Performance

Denied Delay (hr)	175.0
Denied Del/Veh (s)	154.9
Total Delay (hr)	269.2
Total Del/Veh (s)	264.5
Total Stops	8259
Travel Dist (mi)	2351.7
Travel Time (hr)	518.4
Avg Speed (mph)	7
Fuel Used (gal)	181.8
HC Emissions (g)	7379
CO Emissions (g)	131544
NOx Emissions (g)	15317
Vehicles Entered	3500
Vehicles Exited	3201
Hourly Exit Rate	3201
Input Volume	14809
% of Volume	22
Denied Entry Before	0
Denied Entry After	568

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	250.8	265.4	0.1	2
NB I-5 On/Off-Ramp	3	22.5	31.9	0.1	10
Harlan Road	4	27.5	39.4	0.1	11
Total		300.8	336.7	0.3	4

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	203.4	364.2	0.3	5
NB I-5 On/Off-Ramp	3	104.8	117.0	0.1	4
SB I-5 On/Off-Ramp	2	70.0	79.0	0.1	4
Manthey Road	1	28.6	43.0	0.1	10
Total		406.8	603.3	0.6	5

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	367	74	168	278	159	1111
Average Queue (ft)	189	24	50	245	121	443
95th Queue (ft)	362	57	131	325	194	1292
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)				35		5
Queuing Penalty (veh)				135		0
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					63	2
Queuing Penalty (veh)					38	2

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	TR	L	T	T	L	LT	R
Maximum Queue (ft)	574	582	411	348	297	411	694	79
Average Queue (ft)	503	528	263	190	135	190	357	67
95th Queue (ft)	674	676	493	380	343	398	1059	120
Link Distance (ft)	553	553	425	425	425		1469	
Upstream Blk Time (%)	9	35	13	13	5		12	
Queuing Penalty (veh)	35	130	35	35	13		0	
Storage Bay Dist (ft)						525		25
Storage Blk Time (%)						2	85	16
Queuing Penalty (veh)						7	318	89

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	NB	NB
Directions Served	L	T	T	T	TR	LT	R
Maximum Queue (ft)	80	178	199	586	593	544	388
Average Queue (ft)	38	91	101	497	514	244	112
95th Queue (ft)	78	173	193	676	659	823	266
Link Distance (ft)	425	425	425	543	543	1249	
Upstream Blk Time (%)				18	20	10	
Queuing Penalty (veh)				99	109	0	
Storage Bay Dist (ft)							625
Storage Blk Time (%)						11	
Queuing Penalty (veh)						34	

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	216	284	300	220	235	1433	1428	235	229	258	1696	127
Average Queue (ft)	92	150	162	50	147	868	874	157	178	209	946	44
95th Queue (ft)	190	278	292	162	296	1767	1769	325	284	327	2175	115
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)						13	17				32	
Queuing Penalty (veh)						0	0				0	
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	1	8	0	4	58	63	0	39	56	4	4
Queuing Penalty (veh)	0	1	12	0	14	66	110	1	82	119	13	13

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	190	233	542	129
Average Queue (ft)	66	101	205	61
95th Queue (ft)	160	196	892	121
Link Distance (ft)			1494	
Upstream Blk Time (%)			8	
Queuing Penalty (veh)			0	
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	0	5	16
Queuing Penalty (veh)	0	1	16	44

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	NB	SB
Directions Served	L	R	T	TR	L
Maximum Queue (ft)	153	239	1268	210	123
Average Queue (ft)	59	167	840	168	42
95th Queue (ft)	202	280	1719	296	103
Link Distance (ft)	200	200	1220		
Upstream Blk Time (%)	25	65	52		
Queuing Penalty (veh)	0	0	0		
Storage Bay Dist (ft)				150	150
Storage Blk Time (%)			6	68	0
Queuing Penalty (veh)			21	219	1

Network Summary

Network wide Queuing Penalty: 1812

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.0	31.7
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	3	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	97	100
Cycles with Peds (%)	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	10.0	35.1	9.4	20.1	11.3	33.5	9.3	22.0
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	15	0	0	0	13	0	10	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	33	100	98	43	33	100	74	43
Cycles with Peds (%)	0	8	0	13	0	8	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Appendix F – Cumulative Plus Project Conditions With Mitigated and Signalized I-5 Ramps Synchro Version 11 AM and PM Peak Hour Technical Calculations

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.5	3.5	3.2	0.2	1.1
Total Delay (hr)	1.0	0.0	0.0	0.3	0.2	0.7	0.2	2.4
Total Del/Veh (s)	9.3	1.1	2.2	21.7	4.4	44.5	15.4	11.1
Total Stops	74	0	9	30	128	49	20	310
Travel Dist (mi)	45.1	0.1	6.2	14.5	55.7	18.0	14.2	153.8
Travel Time (hr)	2.6	0.0	0.3	0.6	1.9	1.2	0.5	7.1
Avg Speed (mph)	17	26	23	23	32	16	29	22
Fuel Used (gal)	1.7	0.0	0.2	0.4	1.5	0.6	0.4	4.9
HC Emissions (g)	91	0	14	30	101	39	31	306
CO Emissions (g)	1778	3	302	602	2078	748	605	6116
NOx Emissions (g)	237	0	37	81	280	103	87	824
Vehicles Entered	382	1	52	50	192	52	41	770
Vehicles Exited	382	1	52	50	192	53	41	771
Hourly Exit Rate	382	1	52	50	192	53	41	771
Input Volume	389	1	51	51	195	51	41	779
% of Volume	98	100	102	98	98	104	101	99
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.9	2.9	0.4
Total Delay (hr)	1.0	0.1	2.6	0.7	4.7	0.2	9.4
Total Del/Veh (s)	20.3	6.9	23.6	7.4	38.1	8.4	22.2
Total Stops	100	39	232	127	395	65	958
Travel Dist (mi)	20.4	7.5	35.6	33.3	122.7	21.6	241.2
Travel Time (hr)	1.8	0.5	3.9	1.8	8.7	1.0	17.6
Avg Speed (mph)	11	15	9	18	14	24	14
Fuel Used (gal)	1.4	0.4	1.6	1.7	4.3	0.6	10.1
HC Emissions (g)	70	25	76	96	191	32	490
CO Emissions (g)	1590	565	1306	2047	3339	582	9430
NOx Emissions (g)	184	67	176	264	476	86	1253
Vehicles Entered	180	66	390	357	440	77	1510
Vehicles Exited	180	66	387	357	439	77	1506
Hourly Exit Rate	180	66	387	357	439	77	1506
Input Volume	180	68	398	363	439	78	1526
% of Volume	100	98	97	98	100	99	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.8	3.3	0.5
Total Delay (hr)	0.3	1.1	3.7	0.7	1.1	0.6	7.5
Total Del/Veh (s)	23.3	7.0	22.1	7.0	26.1	8.7	13.6
Total Stops	43	158	257	140	100	160	858
Travel Dist (mi)	4.0	56.1	73.3	46.0	34.0	56.2	269.6
Travel Time (hr)	0.4	3.2	6.1	2.6	2.2	2.7	17.1
Avg Speed (mph)	9	18	12	18	16	23	16
Fuel Used (gal)	0.2	2.7	4.0	1.9	1.2	1.7	11.7
HC Emissions (g)	8	148	199	107	55	86	605
CO Emissions (g)	181	2903	3903	2193	1015	1599	11795
NOx Emissions (g)	20	417	531	287	141	225	1622
Vehicles Entered	43	574	605	379	143	237	1981
Vehicles Exited	43	574	603	378	144	236	1978
Hourly Exit Rate	43	574	603	378	144	236	1978
Input Volume	48	570	611	378	150	235	1993
% of Volume	90	101	99	100	96	100	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.4	2.1	2.4	0.5	2.5	2.8	0.4	2.8
Total Delay (hr)	1.3	2.2	0.2	0.9	3.9	0.2	2.7	0.4	0.1	0.9	0.3	0.3
Total Del/Veh (s)	43.5	13.7	5.9	43.7	20.5	6.2	45.5	32.1	7.9	41.4	34.7	10.1
Total Stops	101	186	73	71	384	66	202	33	43	75	26	79
Travel Dist (mi)	11.9	64.5	16.2	21.5	199.5	36.7	70.3	14.3	18.2	22.9	9.0	26.8
Travel Time (hr)	1.7	4.2	0.9	1.6	9.7	1.5	5.0	0.8	0.7	1.7	0.6	1.2
Avg Speed (mph)	7	15	18	14	21	26	14	18	26	14	16	23
Fuel Used (gal)	0.8	3.7	0.8	0.8	6.4	1.1	2.6	0.5	0.5	0.9	0.3	0.8
HC Emissions (g)	33	199	39	39	323	59	120	22	27	37	16	44
CO Emissions (g)	700	4250	815	682	5766	1119	2046	379	472	666	274	769
NOx Emissions (g)	82	545	111	97	862	161	305	58	75	95	41	117
Vehicles Entered	105	565	141	73	677	124	211	43	54	81	32	94
Vehicles Exited	105	564	140	73	677	124	212	43	54	80	32	94
Hourly Exit Rate	105	564	140	73	677	124	212	43	54	80	32	94
Input Volume	105	558	143	72	680	122	214	41	51	82	31	95
% of Volume	100	101	98	102	100	101	99	106	106	98	104	99
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.8
Total Delay (hr)	13.5
Total Del/Veh (s)	21.8
Total Stops	1339
Travel Dist (mi)	511.9
Travel Time (hr)	29.8
Avg Speed (mph)	17
Fuel Used (gal)	19.2
HC Emissions (g)	957
CO Emissions (g)	17938
NOx Emissions (g)	2550
Vehicles Entered	2200
Vehicles Exited	2198
Hourly Exit Rate	2198
Input Volume	2193
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	1.2
Denied Del/Veh (s)	1.6
Total Delay (hr)	34.3
Total Del/Veh (s)	45.5
Total Stops	3465
Travel Dist (mi)	1948.4
Travel Time (hr)	96.8
Avg Speed (mph)	20
Fuel Used (gal)	77.4
HC Emissions (g)	4299
CO Emissions (g)	84924
NOx Emissions (g)	11729
Vehicles Entered	2623
Vehicles Exited	2613
Hourly Exit Rate	2613
Input Volume	9118
% of Volume	29
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	25.3	41.3	0.1	11
NB I-5 On/Off-Ramp	3	3.5	13.2	0.1	25
Harlan Road	4	12.1	24.0	0.1	18
Total		40.9	78.4	0.3	15

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	20.5	51.1	0.3	21
NB I-5 On/Off-Ramp	3	17.5	30.1	0.1	14
SB I-5 On/Off-Ramp	2	2.6	12.0	0.1	27
Manthey Road	1	8.2	22.5	0.1	19
Total		48.7	115.7	0.6	20

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	205	45	103	101	126	113
Average Queue (ft)	64	6	31	50	48	23
95th Queue (ft)	153	26	80	86	101	74
Link Distance (ft)	554	554	1535			1820
Upstream Blk Time (%)	0					
Queuing Penalty (veh)	0					
Storage Bay Dist (ft)				300	100	
Storage Blk Time (%)					2	0
Queuing Penalty (veh)					1	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	R	L	T	T	L	LT	R
Maximum Queue (ft)	103	172	109	431	178	117	282	332	204
Average Queue (ft)	28	62	25	197	83	25	144	187	56
95th Queue (ft)	76	127	67	390	153	79	247	288	166
Link Distance (ft)	554	554		425	425	425		1469	
Upstream Blk Time (%)				2					
Queuing Penalty (veh)				4					
Storage Bay Dist (ft)			175				525		150
Storage Blk Time (%)		0	0					18	0
Queuing Penalty (veh)		0	0					54	0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	T	R	LT	R
Maximum Queue (ft)	120	111	120	474	371	234	194	164
Average Queue (ft)	41	55	58	183	54	74	90	73
95th Queue (ft)	92	99	97	383	203	159	167	136
Link Distance (ft)	425	425	425	543	543		1249	
Upstream Blk Time (%)				0	0			
Queuing Penalty (veh)				1	1			
Storage Bay Dist (ft)						400		625
Storage Blk Time (%)					0			
Queuing Penalty (veh)					0			

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	179	158	169	104	208	336	349	208	184	201	116	95
Average Queue (ft)	86	63	84	34	70	157	138	38	92	88	33	28
95th Queue (ft)	156	126	144	78	157	286	263	122	162	165	83	68
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0		0		0	7	3	0	0	0	2	0
Queuing Penalty (veh)	0		0		1	5	4	0	0	0	5	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	78	119	98	108
Average Queue (ft)	16	54	25	40
95th Queue (ft)	51	102	68	84
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)			1	1
Queuing Penalty (veh)			3	2

Network Summary

Network wide Queuing Penalty: 82

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.7	26.5
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	27	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	73	100
Cycles with Peds (%)	0	11	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Phase	1	2	4	6
Movement(s) Served	WBL	EBT	SBTL	WBT
Maximum Green (s)	35.5	20.5	20.5	60.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	None	C-Max	Max	C-Max
Avg. Green (s)	35.7	24.7	20.5	60.5
g/C Ratio	-0.01	NA	NA	NA
Cycles Skipped (%)	9	0	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	91	100	100	100
Cycles with Peds (%)	0	10	0	11

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Phase	2	5	6	8
Movement(s) Served	EBT	EBL	WBT	NBTL
Maximum Green (s)	55.5	15.5	35.5	25.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	C-Max	None	C-Max	Max
Avg. Green (s)	55.5	15.7	42.6	25.5
g/C Ratio	NA	-0.01	NA	NA
Cycles Skipped (%)	0	32	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	68	100	100
Cycles with Peds (%)	11	0	11	0

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.4	42.8	9.8	13.3	10.5	40.1	8.4	16.9
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	18	0	0	0	5	0	17	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	0
Cycles Maxed Out (%)	11	100	80	13	13	100	31	13
Cycles with Peds (%)	0	8	0	10	0	13	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.2	0.3	3.2	0.3	0.4
Total Delay (hr)	1.3	0.0	0.1	0.7	1.8	1.2	0.2	5.3
Total Del/Veh (s)	13.2	2.9	3.4	20.0	12.0	44.2	13.4	14.7
Total Stops	75	0	22	68	337	87	30	619
Travel Dist (mi)	43.1	0.1	13.2	35.4	151.9	31.9	22.3	297.8
Travel Time (hr)	2.9	0.0	0.6	1.5	6.0	2.0	0.7	13.7
Avg Speed (mph)	15	26	21	24	26	16	30	22
Fuel Used (gal)	1.7	0.0	0.5	1.2	3.8	1.1	0.7	9.0
HC Emissions (g)	96	0	26	79	248	68	50	566
CO Emissions (g)	1788	4	566	1637	5019	1340	993	11346
NOx Emissions (g)	245	0	69	215	636	179	138	1483
Vehicles Entered	365	1	111	122	524	92	64	1279
Vehicles Exited	363	1	111	122	522	92	64	1275
Hourly Exit Rate	363	1	111	122	522	92	64	1275
Input Volume	358	1	112	122	531	92	61	1278
% of Volume	102	133	99	100	98	100	104	100
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.0	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.0	2.7	0.4
Total Delay (hr)	2.1	0.7	2.1	1.0	5.1	0.1	11.2
Total Del/Veh (s)	22.2	9.7	22.4	8.5	33.9	8.7	20.4
Total Stops	215	177	262	180	453	45	1332
Travel Dist (mi)	38.5	31.4	29.7	39.4	149.5	16.2	304.8
Travel Time (hr)	3.6	2.3	3.1	2.3	9.9	0.7	22.0
Avg Speed (mph)	11	14	9	17	15	24	14
Fuel Used (gal)	2.5	1.7	1.4	2.0	5.1	0.5	13.3
HC Emissions (g)	135	91	61	112	241	26	666
CO Emissions (g)	2915	1940	1096	2284	4175	459	12870
NOx Emissions (g)	355	248	147	308	605	69	1732
Vehicles Entered	339	275	325	420	536	58	1953
Vehicles Exited	338	275	325	420	536	58	1952
Hourly Exit Rate	338	275	325	420	536	58	1952
Input Volume	343	281	327	414	542	56	1963
% of Volume	99	98	99	101	99	103	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.0	3.2	0.5
Total Delay (hr)	0.5	1.7	3.6	2.6	1.8	1.3	11.5
Total Del/Veh (s)	20.8	7.7	24.0	17.0	31.3	14.5	16.6
Total Stops	76	243	262	342	160	231	1314
Travel Dist (mi)	7.6	76.9	65.1	65.8	48.7	74.8	338.8
Travel Time (hr)	0.7	4.5	5.7	5.3	3.4	4.0	23.6
Avg Speed (mph)	10	17	11	12	15	20	15
Fuel Used (gal)	0.4	3.8	3.7	2.9	1.7	2.3	14.9
HC Emissions (g)	18	214	190	160	80	124	786
CO Emissions (g)	368	4157	3762	3012	1438	2256	14994
NOx Emissions (g)	45	593	508	409	201	315	2071
Vehicles Entered	81	793	539	543	206	314	2476
Vehicles Exited	81	793	539	542	206	315	2476
Hourly Exit Rate	81	793	539	542	206	315	2476
Input Volume	85	800	534	552	208	317	2495
% of Volume	96	99	101	98	99	99	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.5	2.0	2.3	0.7	2.4	2.7	0.8	2.6
Total Delay (hr)	2.1	4.5	0.3	1.6	6.0	0.6	3.0	0.6	0.6	2.5	0.7	0.5
Total Del/Veh (s)	51.2	19.5	7.5	50.1	28.6	11.8	50.2	30.6	15.0	45.5	30.4	14.0
Total Stops	142	335	76	113	518	131	210	56	115	192	62	96
Travel Dist (mi)	16.4	93.7	16.6	33.9	220.9	51.9	70.4	24.4	48.3	55.2	23.5	34.4
Travel Time (hr)	2.7	7.5	1.0	2.7	12.5	2.4	5.3	1.4	2.3	4.4	1.4	1.7
Avg Speed (mph)	6	13	17	13	18	23	14	18	22	13	17	22
Fuel Used (gal)	1.2	5.3	0.7	1.3	7.5	1.6	2.6	0.8	1.4	2.1	0.8	1.0
HC Emissions (g)	48	277	40	59	387	86	116	38	74	98	34	62
CO Emissions (g)	940	5455	770	1046	6844	1593	1970	645	1250	1709	605	1064
NOx Emissions (g)	117	748	111	147	1008	228	292	100	197	243	88	163
Vehicles Entered	144	819	143	115	750	176	211	73	144	195	82	121
Vehicles Exited	143	818	144	116	750	177	211	73	144	195	82	120
Hourly Exit Rate	143	818	144	116	750	177	211	73	144	195	82	120
Input Volume	145	828	143	112	756	174	210	72	143	194	82	120
% of Volume	99	99	101	103	99	102	101	102	101	100	100	100
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.9
Total Delay (hr)	23.1
Total Del/Veh (s)	27.5
Total Stops	2046
Travel Dist (mi)	689.5
Travel Time (hr)	45.2
Avg Speed (mph)	16
Fuel Used (gal)	26.4
HC Emissions (g)	1318
CO Emissions (g)	23891
NOx Emissions (g)	3442
Vehicles Entered	2973
Vehicles Exited	2973
Hourly Exit Rate	2973
Input Volume	2978
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

Total Network Performance

Denied Delay (hr)	1.4
Denied Del/Veh (s)	1.4
Total Delay (hr)	53.7
Total Del/Veh (s)	49.3
Total Stops	5311
Travel Dist (mi)	2754.5
Travel Time (hr)	141.6
Avg Speed (mph)	20
Fuel Used (gal)	109.9
HC Emissions (g)	6229
CO Emissions (g)	121493
NOx Emissions (g)	16899
Vehicles Entered	3787
Vehicles Exited	3779
Hourly Exit Rate	3779
Input Volume	12504
% of Volume	30
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	25.2	41.3	0.1	11
NB I-5 On/Off-Ramp	3	3.4	13.0	0.1	25
Harlan Road	4	17.0	29.0	0.1	15
Total		45.7	83.3	0.3	14

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	28.6	59.4	0.3	19
NB I-5 On/Off-Ramp	3	20.7	33.3	0.1	13
SB I-5 On/Off-Ramp	2	3.5	12.9	0.1	25
Manthey Road	1	12.2	26.5	0.1	16
Total		65.0	132.2	0.6	17

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	209	69	174	302	153	188
Average Queue (ft)	64	15	62	130	73	38
95th Queue (ft)	154	46	134	236	135	119
Link Distance (ft)	554	554	1532	1532		1820
Upstream Blk Time (%)						
Queuing Penalty (veh)						
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					8	1
Queuing Penalty (veh)					5	1

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	R	L	T	T	L	LT	R
Maximum Queue (ft)	192	295	224	377	213	158	315	366	210
Average Queue (ft)	63	123	80	195	103	49	171	206	49
95th Queue (ft)	141	220	162	352	178	114	274	310	159
Link Distance (ft)	554	554		425	425	425		1469	
Upstream Blk Time (%)				0					
Queuing Penalty (veh)				0					
Storage Bay Dist (ft)			175				525		150
Storage Blk Time (%)		2	0					21	0
Queuing Penalty (veh)		6	0					70	0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	T	R	LT	R
Maximum Queue (ft)	163	163	158	374	279	352	272	246
Average Queue (ft)	68	91	90	177	63	180	134	113
95th Queue (ft)	134	144	137	317	184	322	232	202
Link Distance (ft)	425	425	425	543	543		1249	
Upstream Blk Time (%)				0	0			
Queuing Penalty (veh)				0	0			
Storage Bay Dist (ft)						400		625
Storage Blk Time (%)						0		
Queuing Penalty (veh)						0		

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	236	266	256	191	231	393	474	235	190	229	236	133
Average Queue (ft)	115	120	132	42	100	166	222	89	77	107	63	64
95th Queue (ft)	201	210	217	112	193	297	401	230	151	189	159	121
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0	0	3	0	2	6	15	0	0	1	5	5
Queuing Penalty (veh)	2	0	5	0	7	7	27	0	0	3	17	15

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	172	210	222	128
Average Queue (ft)	68	109	62	56
95th Queue (ft)	151	180	158	114
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	0	5	4
Queuing Penalty (veh)	0	0	15	10

Network Summary

Network wide Queuing Penalty: 191

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.0	32.8
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	10	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	90	100
Cycles with Peds (%)	0	11	0	15

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Phase	1	2	4	6
Movement(s) Served	WBL	EBT	SBTL	WBT
Maximum Green (s)	25.5	25.5	25.5	55.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	None	C-Max	Max	C-Max
Avg. Green (s)	25.5	26.7	25.5	55.5
g/C Ratio	NA	NA	NA	NA
Cycles Skipped (%)	0	0	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	100	100
Cycles with Peds (%)	0	13	0	11

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Phase	2	5	6	8
Movement(s) Served	EBT	EBL	WBT	NBTL
Maximum Green (s)	59.5	20.5	34.5	21.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	C-Max	None	C-Max	Max
Avg. Green (s)	59.5	20.9	38.8	21.5
g/C Ratio	NA	-0.01	NA	NA
Cycles Skipped (%)	0	16	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	84	100	100
Cycles with Peds (%)	8	0	10	0

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	10.2	35.2	9.4	18.6	12.0	33.1	9.3	18.7
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	NA	NA
Cycles Skipped (%)	5	0	0	0	3	0	0	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	33	100	87	28	31	100	85	28
Cycles with Peds (%)	0	11	0	10	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Denied Del/Veh (s)	0.0		0.0	0.0	0.0	3.2	0.3	0.2
Total Delay (hr)	1.4	0.0	0.0	0.3	0.4	0.7	0.2	3.0
Total Del/Veh (s)	10.7		2.1	20.1	4.9	45.2	15.6	11.2
Total Stops	99	0	7	32	200	50	20	408
Travel Dist (mi)	55.7	0.0	6.1	3.2	17.4	18.3	14.2	114.9
Travel Time (hr)	3.5	0.0	0.3	0.4	1.3	1.2	0.5	7.1
Avg Speed (mph)	16	25	23	8	14	16	28	16
Fuel Used (gal)	2.1	0.0	0.2	0.2	0.5	0.6	0.4	4.1
HC Emissions (g)	116	0	16	7	24	38	31	233
CO Emissions (g)	2202	3	347	137	438	741	614	4482
NOx Emissions (g)	299	0	43	15	57	102	88	604
Vehicles Entered	473	0	51	54	291	53	41	963
Vehicles Exited	473	0	51	54	291	53	41	963
Hourly Exit Rate	473	0	51	54	291	53	41	963
Input Volume	480	0	51	52	286	51	41	961
% of Volume	98	0	100	104	102	104	101	100
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.0	2.8	0.4
Total Delay (hr)	1.5	0.2	2.7	0.9	4.7	0.3	10.3
Total Del/Veh (s)	22.4	8.3	24.0	8.0	37.3	9.2	21.5
Total Stops	148	64	235	154	389	92	1082
Travel Dist (mi)	27.3	11.8	36.1	38.9	123.3	30.5	267.9
Travel Time (hr)	2.6	0.8	4.0	2.2	8.6	1.4	19.6
Avg Speed (mph)	11	14	9	17	14	24	14
Fuel Used (gal)	1.8	0.7	1.7	2.0	4.3	0.9	11.5
HC Emissions (g)	96	41	83	114	189	49	574
CO Emissions (g)	2135	909	1451	2406	3303	879	11083
NOx Emissions (g)	251	110	195	314	474	131	1475
Vehicles Entered	240	104	395	418	442	109	1708
Vehicles Exited	240	104	393	417	442	109	1705
Hourly Exit Rate	240	104	393	417	442	109	1705
Input Volume	235	102	398	420	439	112	1708
% of Volume	102	102	99	99	101	97	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.8	3.2	0.4
Total Delay (hr)	0.6	1.2	4.9	0.8	1.3	0.6	9.4
Total Del/Veh (s)	24.4	7.0	27.4	7.7	26.8	8.8	15.8
Total Stops	81	162	339	156	127	158	1023
Travel Dist (mi)	7.7	58.4	77.0	46.2	42.2	56.0	287.5
Travel Time (hr)	0.8	3.3	7.3	2.7	2.7	2.6	19.5
Avg Speed (mph)	9	18	10	17	16	23	15
Fuel Used (gal)	0.4	2.9	4.3	1.9	1.5	1.7	12.7
HC Emissions (g)	18	158	212	106	69	95	658
CO Emissions (g)	373	3111	4066	2179	1243	1752	12725
NOx Emissions (g)	47	443	554	282	175	248	1749
Vehicles Entered	83	600	637	380	178	236	2114
Vehicles Exited	82	600	635	380	178	235	2110
Hourly Exit Rate	82	600	635	380	178	235	2110
Input Volume	82	593	634	378	184	235	2106
% of Volume	100	101	100	101	97	100	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.1	0.4	2.1	2.4	0.6	2.4	2.7	0.4	2.7
Total Delay (hr)	1.3	2.3	0.3	0.9	4.0	0.2	3.0	0.4	0.1	0.9	0.3	0.3
Total Del/Veh (s)	43.2	14.1	6.2	45.4	20.5	6.4	47.5	30.6	7.8	41.6	32.4	10.7
Total Stops	105	194	81	67	400	69	219	30	41	74	24	82
Travel Dist (mi)	12.2	66.1	17.3	20.1	206.2	36.6	74.6	13.6	18.0	22.8	8.6	27.4
Travel Time (hr)	1.8	4.4	1.0	1.5	10.1	1.5	5.5	0.8	0.7	1.7	0.5	1.3
Avg Speed (mph)	7	15	18	13	21	26	14	18	26	14	16	23
Fuel Used (gal)	0.8	3.8	0.8	0.8	6.6	1.1	2.8	0.4	0.5	0.8	0.3	0.8
HC Emissions (g)	38	204	41	35	340	58	123	23	31	42	18	44
CO Emissions (g)	770	4328	861	612	6057	1090	2096	391	531	735	306	779
NOx Emissions (g)	92	557	117	86	907	158	312	59	85	107	46	118
Vehicles Entered	107	577	150	68	700	124	224	41	54	80	30	96
Vehicles Exited	107	576	151	68	699	124	222	41	54	80	31	97
Hourly Exit Rate	107	576	151	68	699	124	222	41	54	80	31	97
Input Volume	107	572	148	72	695	122	220	41	51	82	31	97
% of Volume	100	101	102	95	101	101	101	101	106	98	101	100
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.5
Denied Del/Veh (s)	0.8
Total Delay (hr)	14.0
Total Del/Veh (s)	22.1
Total Stops	1386
Travel Dist (mi)	523.4
Travel Time (hr)	30.7
Avg Speed (mph)	17
Fuel Used (gal)	19.6
HC Emissions (g)	996
CO Emissions (g)	18556
NOx Emissions (g)	2644
Vehicles Entered	2251
Vehicles Exited	2250
Hourly Exit Rate	2250
Input Volume	2238
% of Volume	101
Denied Entry Before	0
Denied Entry After	0

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.2	0.0	0.0	0.0	0.2
Denied Del/Veh (s)	0.1	0.2	2.9	4.0	0.0	0.0	0.9
Total Delay (hr)	0.0	0.1	0.1	0.0	0.1	0.1	0.5
Total Del/Veh (s)	12.8	4.7	1.4	0.2	4.0	0.8	1.9
Total Stops	10	100	0	0	33	0	143
Travel Dist (mi)	0.4	3.8	56.4	1.4	6.4	26.1	94.5
Travel Time (hr)	0.1	0.3	1.6	0.0	0.4	1.2	3.6
Avg Speed (mph)	7	11	41	37	15	22	28
Fuel Used (gal)	0.0	0.1	1.6	0.0	0.3	2.2	4.3
HC Emissions (g)	1	5	112	4	17	119	257
CO Emissions (g)	8	75	2312	80	335	3231	6042
NOx Emissions (g)	1	10	316	12	47	329	715
Vehicles Entered	10	100	244	6	101	413	874
Vehicles Exited	10	100	244	6	102	412	874
Hourly Exit Rate	10	100	244	6	102	412	874
Input Volume	10	96	241	5	101	420	874
% of Volume	98	104	101	120	101	98	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	1.2
Denied Del/Veh (s)	1.6
Total Delay (hr)	38.6
Total Del/Veh (s)	47.4
Total Stops	4042
Travel Dist (mi)	2069.3
Travel Time (hr)	105.7
Avg Speed (mph)	20
Fuel Used (gal)	83.2
HC Emissions (g)	4702
CO Emissions (g)	92508
NOx Emissions (g)	12772
Vehicles Entered	2839
Vehicles Exited	2826
Hourly Exit Rate	2826
Input Volume	10712
% of Volume	26
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	26.0	42.0	0.1	10
NB I-5 On/Off-Ramp	3	3.7	13.4	0.1	24
Harlan Road	4	13.0	24.9	0.1	17
Total		42.8	80.3	0.3	15

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	20.5	51.3	0.3	21
NB I-5 On/Off-Ramp	3	21.8	34.3	0.1	13
SB I-5 On/Off-Ramp	2	3.0	12.4	0.1	26
Manthey Road	1	9.3	23.7	0.1	18
Total		54.6	121.7	0.6	19

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	258	42	109	153	117	95
Average Queue (ft)	81	5	33	69	48	22
95th Queue (ft)	173	26	84	121	99	67
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)	0					
Queuing Penalty (veh)	0					
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					2	0
Queuing Penalty (veh)					1	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	R	L	T	T	L	LT	R
Maximum Queue (ft)	155	183	104	438	195	146	286	327	210
Average Queue (ft)	53	79	37	202	98	30	143	184	72
95th Queue (ft)	119	159	82	401	171	94	243	286	189
Link Distance (ft)	553	553		425	425	425		1469	
Upstream Blk Time (%)				1					
Queuing Penalty (veh)				4					
Storage Bay Dist (ft)			175				525		150
Storage Blk Time (%)		1	0					16	0
Queuing Penalty (veh)		1	0					55	0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	T	R	LT	R
Maximum Queue (ft)	177	128	121	488	338	200	231	174
Average Queue (ft)	73	57	60	221	84	75	108	74
95th Queue (ft)	141	106	98	418	258	148	195	138
Link Distance (ft)	425	425	425	543	543		1249	
Upstream Blk Time (%)				0	0			
Queuing Penalty (veh)				1	0			
Storage Bay Dist (ft)						400		625
Storage Blk Time (%)					0			
Queuing Penalty (veh)					0			

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	209	162	186	126	217	337	387	193	202	216	188	104
Average Queue (ft)	87	65	86	38	67	160	139	39	97	91	34	29
95th Queue (ft)	166	132	159	91	156	279	259	117	170	177	109	74
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)												
Queuing Penalty (veh)												
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	0		1		0	6	4	0	0	1	2	0
Queuing Penalty (veh)	0		1		1	5	5	0	0	1	5	1

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	81	129	111	112
Average Queue (ft)	16	53	25	43
95th Queue (ft)	55	104	74	86
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)			1	2
Queuing Penalty (veh)			2	2

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	SB
Directions Served	L	R	TR	L
Maximum Queue (ft)	56	107	10	90
Average Queue (ft)	10	46	0	29
95th Queue (ft)	38	87	6	73
Link Distance (ft)	200	200		
Upstream Blk Time (%)		0		
Queuing Penalty (veh)		0		
Storage Bay Dist (ft)			150	150
Storage Blk Time (%)				0
Queuing Penalty (veh)				0

Network Summary

Network wide Queuing Penalty: 85

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	35.5	45.5	8.5	22.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	35.5	45.5	8.7	26.2
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	24	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	76	100
Cycles with Peds (%)	0	11	0	10

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Phase	1	2	4	6
Movement(s) Served	WBL	EBT	SBTL	WBT
Maximum Green (s)	35.5	20.5	20.5	60.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	None	C-Max	Max	C-Max
Avg. Green (s)	35.5	24.8	20.5	60.5
g/C Ratio	-0.01	NA	NA	NA
Cycles Skipped (%)	11	0	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	89	100	100	100
Cycles with Peds (%)	0	13	0	11

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Phase	2	5	6	8
Movement(s) Served	EBT	EBL	WBT	NBTL
Maximum Green (s)	55.5	15.5	35.5	25.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	C-Max	None	C-Max	Max
Avg. Green (s)	55.5	15.9	38.4	25.5
g/C Ratio	NA	-0.01	NA	NA
Cycles Skipped (%)	0	11	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	89	100	100
Cycles with Peds (%)	11	0	10	0

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	27.5	10.0	27.0	7.5	27.5	10.0	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	9.0	43.1	9.8	13.4	10.5	39.7	8.2	16.9
g/C Ratio	-0.01	NA	NA	NA	-0.01	NA	-0.01	NA
Cycles Skipped (%)	18	0	0	0	5	0	14	0
Cycles @ Minimum (%)	0	0	0	10	0	0	0	0
Cycles Maxed Out (%)	11	100	83	13	15	100	31	13
Cycles with Peds (%)	0	10	0	10	0	10	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

1: Manthey Road & Roth Road Performance by movement

Movement	WBL	WBT	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	0.0	3.2	0.3	0.2
Total Delay (hr)	2.8	0.0	0.1	0.6	2.3	1.2	0.2	7.2
Total Del/Veh (s)	20.5	1.1	3.2	17.8	12.9	46.6	12.7	17.0
Total Stops	174	0	23	65	436	83	28	809
Travel Dist (mi)	56.6	0.1	13.3	7.5	39.5	30.4	21.2	168.6
Travel Time (hr)	4.8	0.0	0.6	0.8	4.2	2.0	0.7	13.2
Avg Speed (mph)	12	27	21	9	9	16	31	13
Fuel Used (gal)	2.5	0.0	0.5	0.4	1.5	1.1	0.6	6.6
HC Emissions (g)	133	0	30	16	65	71	46	361
CO Emissions (g)	2390	4	666	324	1026	1373	931	6713
NOx Emissions (g)	325	0	80	37	130	184	130	885
Vehicles Entered	480	2	112	122	648	88	62	1514
Vehicles Exited	479	2	112	122	647	88	62	1512
Hourly Exit Rate	479	2	112	122	647	88	62	1512
Input Volume	480	1	112	123	654	92	61	1524
% of Volume	100	200	100	99	99	96	101	99
Denied Entry Before	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0

2: SB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBT	EBR	WBL	WBT	SBL	SBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.2	0.1	0.2
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.1	2.8	0.4
Total Delay (hr)	2.6	0.9	1.8	1.2	5.3	0.3	12.2
Total Del/Veh (s)	23.0	9.9	19.9	9.0	34.4	9.9	19.8
Total Stops	275	210	255	218	455	81	1494
Travel Dist (mi)	46.8	36.7	29.0	46.2	152.4	28.5	339.6
Travel Time (hr)	4.5	2.7	2.8	2.8	10.2	1.3	24.3
Avg Speed (mph)	10	14	10	16	15	23	14
Fuel Used (gal)	3.1	2.0	1.4	2.3	5.2	0.8	14.8
HC Emissions (g)	168	108	62	133	246	44	760
CO Emissions (g)	3526	2220	1119	2686	4231	780	14562
NOx Emissions (g)	437	293	152	367	614	116	1980
Vehicles Entered	413	323	317	493	546	102	2194
Vehicles Exited	412	323	316	493	547	102	2193
Hourly Exit Rate	412	323	316	493	547	102	2193
Input Volume	419	327	327	492	542	102	2208
% of Volume	98	99	97	100	101	100	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

3: NB I-5 On/Off-Ramp & Roth Road Performance by movement

Movement	EBL	EBT	WBT	WBR	NBL	NBR	All
Denied Delay (hr)	0.0	0.0	0.0	0.0	0.1	0.3	0.3
Denied Del/Veh (s)	0.0	0.0	0.0	0.0	1.0	3.1	0.5
Total Delay (hr)	0.7	1.8	4.2	3.0	2.3	1.4	13.5
Total Del/Veh (s)	19.8	7.8	27.3	19.7	32.4	15.8	18.3
Total Stops	123	257	305	372	200	232	1489
Travel Dist (mi)	12.0	80.6	67.0	66.0	60.4	74.1	360.1
Travel Time (hr)	1.1	4.7	6.4	5.7	4.3	4.1	26.3
Avg Speed (mph)	10	17	11	12	14	19	14
Fuel Used (gal)	0.6	4.0	3.9	3.1	2.2	2.3	16.0
HC Emissions (g)	30	233	203	160	96	115	837
CO Emissions (g)	592	4527	3942	2985	1708	2116	15870
NOx Emissions (g)	77	643	535	403	240	290	2188
Vehicles Entered	129	831	553	545	254	312	2624
Vehicles Exited	128	830	554	544	255	311	2622
Hourly Exit Rate	128	830	554	544	255	311	2622
Input Volume	133	828	562	552	256	317	2646
% of Volume	96	100	99	99	100	98	99
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Denied Delay (hr)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1
Denied Del/Veh (s)	0.0	0.0	0.0	2.0	0.5	2.0	2.4	0.8	2.3	2.7	0.8	2.7
Total Delay (hr)	2.2	5.1	0.3	1.5	6.2	0.6	3.2	0.7	0.6	2.7	0.7	0.5
Total Del/Veh (s)	52.1	21.2	8.0	49.4	29.1	11.8	52.4	31.7	14.9	48.2	30.6	13.4
Total Stops	146	372	78	112	537	136	212	55	111	197	64	100
Travel Dist (mi)	16.5	97.6	16.6	32.2	225.0	54.2	70.3	25.0	47.2	55.2	23.6	35.9
Travel Time (hr)	2.8	8.2	1.0	2.6	12.8	2.5	5.5	1.4	2.2	4.5	1.4	1.7
Avg Speed (mph)	6	12	16	13	18	23	13	18	22	13	17	22
Fuel Used (gal)	1.2	5.5	0.7	1.3	7.6	1.7	2.7	0.8	1.4	2.2	0.8	1.1
HC Emissions (g)	48	283	42	61	391	93	132	38	72	100	40	59
CO Emissions (g)	932	5526	809	1070	6924	1735	2203	650	1224	1729	688	1016
NOx Emissions (g)	116	758	118	151	1020	248	328	100	192	245	102	155
Vehicles Entered	145	852	144	110	764	183	211	75	141	195	83	126
Vehicles Exited	145	851	144	109	763	184	209	75	141	194	84	126
Hourly Exit Rate	145	851	144	109	763	184	209	75	141	194	84	126
Input Volume	148	848	148	112	776	174	214	72	143	194	82	122
% of Volume	98	100	97	97	98	106	97	105	99	100	103	103
Denied Entry Before	0	0	0	0	0	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0	0	0	0	0	0

4: Harlan Road & Roth Road Performance by movement

Movement	All
Denied Delay (hr)	0.8
Denied Del/Veh (s)	0.9
Total Delay (hr)	24.2
Total Del/Veh (s)	28.4
Total Stops	2120
Travel Dist (mi)	699.3
Travel Time (hr)	46.6
Avg Speed (mph)	15
Fuel Used (gal)	26.9
HC Emissions (g)	1358
CO Emissions (g)	24507
NOx Emissions (g)	3533
Vehicles Entered	3029
Vehicles Exited	3025
Hourly Exit Rate	3025
Input Volume	3035
% of Volume	100
Denied Entry Before	0
Denied Entry After	0

5: Manthey Road & Project Driveway #1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Denied Delay (hr)	0.0	0.1	0.5	0.0	0.0	0.0	0.6
Denied Del/Veh (s)	2.3	2.8	2.8	3.4	0.0	0.0	1.7
Total Delay (hr)	0.1	1.0	1.0	0.0	0.7	0.1	3.1
Total Del/Veh (s)	58.2	28.3	5.8	3.1	19.1	1.3	8.2
Total Stops	8	126	57	1	106	1	299
Travel Dist (mi)	0.3	5.1	147.1	3.3	8.2	26.0	190.0
Travel Time (hr)	0.1	1.4	4.8	0.1	1.1	1.2	8.9
Avg Speed (mph)	2	4	34	32	7	21	23
Fuel Used (gal)	0.0	0.4	3.8	0.1	0.5	2.2	7.0
HC Emissions (g)	0	13	256	7	25	115	417
CO Emissions (g)	6	211	5237	127	443	2980	9003
NOx Emissions (g)	0	22	683	17	61	326	1110
Vehicles Entered	8	133	636	14	130	412	1333
Vehicles Exited	8	133	637	14	130	411	1333
Hourly Exit Rate	8	133	637	14	130	411	1333
Input Volume	8	135	642	12	131	412	1339
% of Volume	97	99	99	114	99	100	100
Denied Entry Before	0	0	0	0	0	0	0
Denied Entry After	0	0	0	0	0	0	0

Total Network Performance

Denied Delay (hr)	2.1
Denied Del/Veh (s)	1.8
Total Delay (hr)	62.8
Total Del/Veh (s)	54.0
Total Stops	6211
Travel Dist (mi)	2894.7
Travel Time (hr)	156.7
Avg Speed (mph)	19
Fuel Used (gal)	117.6
HC Emissions (g)	6655
CO Emissions (g)	129064
NOx Emissions (g)	17950
Vehicles Entered	4047
Vehicles Exited	4037
Hourly Exit Rate	4037
Input Volume	14809
% of Volume	27
Denied Entry Before	0
Denied Entry After	0

Arterial Level of Service: EB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
SB I-5 On/Off-Ramp	2	25.4	41.5	0.1	11
NB I-5 On/Off-Ramp	3	3.6	13.2	0.1	25
Harlan Road	4	19.3	31.2	0.1	14
Total		48.2	85.8	0.3	14

Arterial Level of Service: WB Roth Road

Cross Street	Node	Delay (s/veh)	Travel time (s)	Dist (mi)	Arterial Speed
Harlan Road	4	29.1	59.8	0.3	18
NB I-5 On/Off-Ramp	3	24.3	36.8	0.1	12
SB I-5 On/Off-Ramp	2	4.2	13.5	0.1	24
Manthey Road	1	19.2	33.6	0.1	13
Total		76.7	143.8	0.6	16

Intersection: 1: Manthey Road & Roth Road

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	R	L	T
Maximum Queue (ft)	422	134	172	269	151	187
Average Queue (ft)	130	18	61	171	75	36
95th Queue (ft)	311	79	130	276	137	110
Link Distance (ft)	553	553	259	259		1820
Upstream Blk Time (%)	0			1		
Queuing Penalty (veh)	0			3		
Storage Bay Dist (ft)					100	
Storage Blk Time (%)					7	0
Queuing Penalty (veh)					4	0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	SB	SB	SB
Directions Served	T	T	R	L	T	T	L	LT	R
Maximum Queue (ft)	191	306	232	369	222	156	304	360	210
Average Queue (ft)	83	143	98	193	120	55	165	210	80
95th Queue (ft)	158	248	197	327	193	125	274	319	209
Link Distance (ft)	553	553		425	425	425		1469	
Upstream Blk Time (%)				0					
Queuing Penalty (veh)				0					
Storage Bay Dist (ft)			175				525		150
Storage Blk Time (%)		3	0					22	0
Queuing Penalty (veh)		11	0					83	0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Movement	EB	EB	EB	WB	WB	WB	NB	NB
Directions Served	L	T	T	T	T	R	LT	R
Maximum Queue (ft)	219	182	184	356	270	364	319	267
Average Queue (ft)	104	95	98	195	80	203	160	120
95th Queue (ft)	183	153	150	324	203	340	270	219
Link Distance (ft)	425	425	425	543	543		1249	
Upstream Blk Time (%)					0			
Queuing Penalty (veh)					0			
Storage Bay Dist (ft)						400		625
Storage Blk Time (%)						0		
Queuing Penalty (veh)						0		

Intersection: 4: Harlan Road & Roth Road

Movement	EB	EB	EB	EB	WB	WB	WB	WB	NB	NB	NB	NB
Directions Served	L	T	T	R	L	T	T	R	L	L	T	R
Maximum Queue (ft)	248	256	275	178	232	456	496	235	211	240	279	134
Average Queue (ft)	119	129	144	44	102	181	235	99	84	113	64	63
95th Queue (ft)	212	221	237	123	202	359	417	243	166	206	172	122
Link Distance (ft)		543	543			1545	1545				1758	
Upstream Blk Time (%)						0						
Queuing Penalty (veh)						0						
Storage Bay Dist (ft)	250			175	175			175	200	200		75
Storage Blk Time (%)	1	0	5	0	2	9	16	0	0	2	5	5
Queuing Penalty (veh)	2	1	8	0	8	10	28	0	1	4	19	15

Intersection: 4: Harlan Road & Roth Road

Movement	SB	SB	SB	SB
Directions Served	L	L	T	R
Maximum Queue (ft)	200	218	222	133
Average Queue (ft)	74	110	66	57
95th Queue (ft)	166	189	161	118
Link Distance (ft)			1494	
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)	200	200		75
Storage Blk Time (%)	0	1	6	3
Queuing Penalty (veh)	0	2	18	10

Intersection: 5: Manthey Road & Project Driveway #1

Movement	WB	WB	NB	NB	SB	SB
Directions Served	L	R	T	TR	L	T
Maximum Queue (ft)	73	198	147	184	191	85
Average Queue (ft)	13	82	14	33	77	5
95th Queue (ft)	64	168	123	133	150	62
Link Distance (ft)	200	200	1220			259
Upstream Blk Time (%)	1	3				0
Queuing Penalty (veh)	0	0				0
Storage Bay Dist (ft)				150	150	
Storage Blk Time (%)				2	2	0
Queuing Penalty (veh)				7	6	0

Network Summary

Network wide Queuing Penalty: 240

Intersection: 1: Manthey Road & Roth Road

Phase	4	6	7	8
Movement(s) Served	SBT	WBL	SBL	NBT
Maximum Green (s)	45.5	35.5	10.0	31.0
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	Max	C-Max	None	Max
Avg. Green (s)	45.5	35.5	10.2	33.3
g/C Ratio	NA	NA	-0.01	NA
Cycles Skipped (%)	0	0	13	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	87	100
Cycles with Peds (%)	0	8	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 2: SB I-5 On/Off-Ramp & Roth Road

Phase	1	2	4	6
Movement(s) Served	WBL	EBT	SBTL	WBT
Maximum Green (s)	25.5	25.5	25.5	55.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	None	C-Max	Max	C-Max
Avg. Green (s)	25.6	26.6	25.5	55.5
g/C Ratio	NA	NA	NA	NA
Cycles Skipped (%)	0	0	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	100	100	100
Cycles with Peds (%)	0	13	0	8

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 3: NB I-5 On/Off-Ramp & Roth Road

Phase	2	5	6	8
Movement(s) Served	EBT	EBL	WBT	NBTL
Maximum Green (s)	59.5	20.5	34.5	21.5
Minimum Green (s)	5.0	5.0	5.0	5.0
Recall	C-Max	None	C-Max	Max
Avg. Green (s)	59.5	20.8	36.6	21.5
g/C Ratio	NA	-0.01	NA	NA
Cycles Skipped (%)	0	5	0	0
Cycles @ Minimum (%)	0	0	0	0
Cycles Maxed Out (%)	100	95	100	100
Cycles with Peds (%)	11	0	10	0

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

Intersection: 4: Harlan Road & Roth Road

Phase	1	2	3	4	5	6	7	8
Movement(s) Served	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Maximum Green (s)	7.5	28.0	9.5	27.0	9.5	26.0	9.5	27.0
Minimum Green (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Recall	None	C-Max	None	Min	None	C-Max	None	Min
Avg. Green (s)	10.1	35.2	9.4	18.9	11.7	32.6	9.3	18.9
g/C Ratio	-0.01	NA	NA	NA	NA	NA	NA	NA
Cycles Skipped (%)	5	0	0	0	0	0	0	0
Cycles @ Minimum (%)	0	0	0	0	0	0	0	0
Cycles Maxed Out (%)	34	100	87	25	33	100	85	25
Cycles with Peds (%)	0	11	0	10	0	8	0	13

Controller Summary

Average Cycle Length (s): NA

Number of Complete Cycles : 0

APPENDIX H

IPAC Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:
Project Code: 2023-0088857
Project Name: Singh Petroleum Investments Project

June 02, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

PROJECT SUMMARY

Project Code: 2023-0088857
Project Name: Singh Petroleum Investments Project
Project Type: Commercial Development
Project Description: The Project site includes two distinct planning boundaries defined below. The following terms are used throughout this Initial Study to describe the planning boundaries within the Project site:

• Project Site (or Annexation Area) – totals 22.42 acres and includes the whole of the Project, including the proposed 19.63-acre Development Area, and 2.79 acres of land along Roth Road and Manthey Road.
• Development Area – totals 19.63 acres and is intended for the development of a travel center and associated circulation and parking improvements over two phases.

The proposed Project site is located on Assessor's Parcel Numbers (APNs) 191-250-14 and 191-250-06, located in the northern portion of the City of Lathrop. The proposed Project is located west of Interstate 5 (I-5) and is bordered by Manthey Road and the future extension of Roth Road.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.85413145,-121.2853301578516,14z

Counties: San Joaquin County, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Riparian Brush Rabbit *Sylvilagus bachmani riparius* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6189	Endangered

AMPHIBIANS

NAME	STATUS
California Tiger Salamander *Ambystoma californiense* Population: U.S.A. (Central CA DPS) There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

CRUSTACEANS

NAME	STATUS
Vernal Pool Fairy Shrimp *Branchinecta lynchi*	Threatened
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	
Vernal Pool Tadpole Shrimp *Lepidurus packardi*	Endangered
There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency:	Lathrop city
Name:	Elise Laws
Address:	1020 Suncast Lane
Address Line 2:	#106
City:	El Dorado Hills
State:	CA
Zip:	95762
Email	elaws@denovoplanning.com
Phone:	9162350116