



**ENVIRONMENTAL ASSESSMENT**  
**TACHI YOKUT**  
**COMMERCIAL CENTER AND TRIBAL MUSEUM PROJECT**

**JULY 2023**

**LEAD AGENCY:**

U.S. Department of the Interior,  
Bureau of Indian Affairs  
Pacific Region Office  
2800 Cottage Way # W2820  
Sacramento, CA 95825



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# SECTION 1.0

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## INTRODUCTION

This Environmental Assessment (EA) has been prepared for the U.S. Bureau of Indian Affairs (BIA) in support of an application from the Tachi Yokut Tribe (Tribe) for the acquisition of 37.19 acres of land (Property) into federal trust (Proposed Action) and the subsequent development of a commercial center, tribal cultural museum, and associated infrastructure on the Property (Proposed Project). The BIA is the federal agency charged with reviewing and approving tribal applications to take land into federal trust.

This document has been completed in accordance with requirements set forth in the National Environmental Policy Act (NEPA) of 1969 (42 U.S.C. §4321 et seq.); the January 2021 Council on Environmental Quality (CEQ) Guidelines for Implementing NEPA; and the BIA NEPA handbook (59 IAM 3-H). This EA provides a detailed description of the Proposed Action and an analysis of potential environmental consequences associated with development of the Proposed Project. This document also includes a discussion of alternatives, impact avoidance, and mitigation measures. Consistent with the requirements of NEPA, the BIA will review and analyze the environmental consequences associated with the Proposed Action, and will either determine that a Finding of No Significant Impact (FONSI) is appropriate, request additional analysis, or request that an Environmental Impact Statement (EIS) be prepared.

The following terms are used throughout this EA:

**Property:** Refers to the 37.19-acre proposed fee-to-trust land, which consists of two contiguous parcels (**Table 1**); also known as the “Alvarado property.”

**Proposed Project:** Refers to the fee-to-trust action and the subsequent development of a commercial center, tribal cultural museum, and associated infrastructure on the Property.

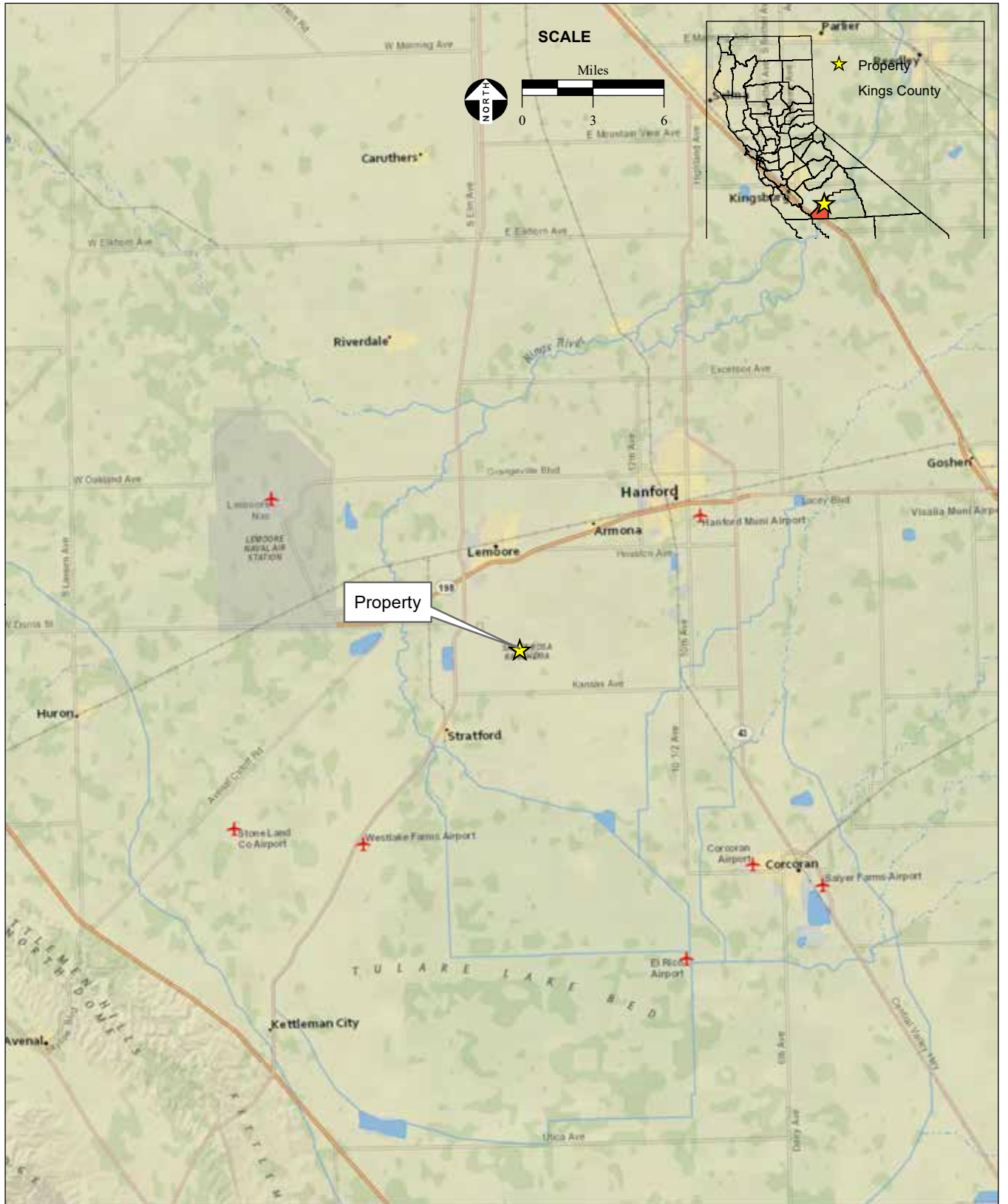
**Project Site:** Refers to the development footprint or area of impact.

**TABLE 1: PROPERTY PARCELS**

Assessor Parcel Number	Acreage
024-160-023	18.50
024-160-024	18.69
<b>Total</b>	<b>37.19</b>
Source: Kings County, 2022a	

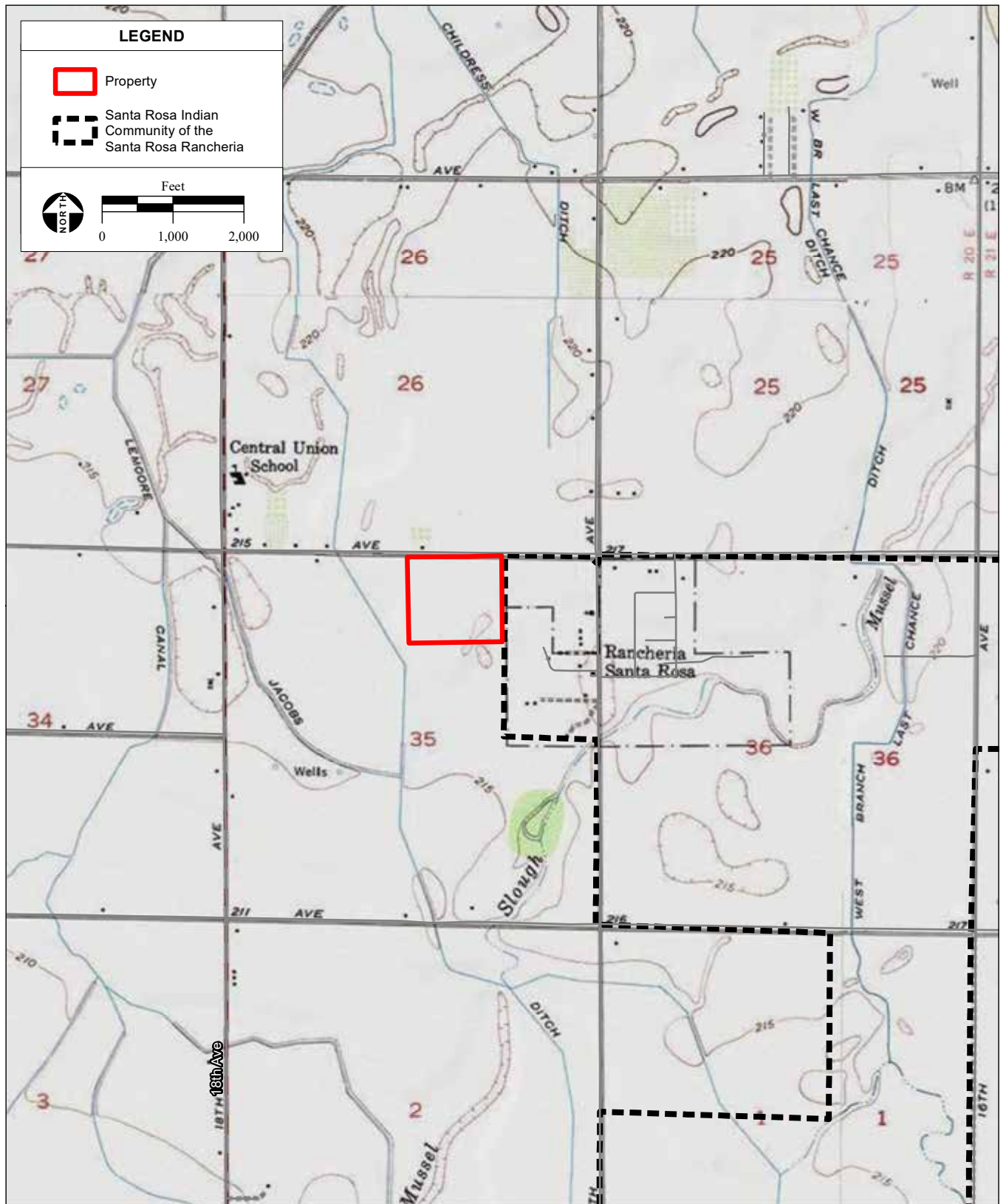
### 1.1 LOCATION AND SETTING

The Property is located in an unincorporated portion of Kings County, California, approximately 1.7 miles southeast of the City of Lemoore (**Figures 1 and 2**). An aerial photograph is shown as **Figure 3**. The Property is contiguous to the western boundary of the Santa Rosa Rancheria (Rancheria). The Rancheria consists of approximately 1,635 acres of land held in trust by the Tribe and contains the Tachi Palace Casino and Resort (Casino), Tribal housing, and Tribal offices. The Property consists of two contiguous parcels; Assessor’s Parcel Number (APN) 024-160-023 and 024-160-024 (**Table 1**).



SOURCE: NatGeo 2022; Montrose Environmental, 1/14/2022 Tachi Yokut Commercial Center and Tribal Museum Project Environmental Assessment / 220503 ■

**Figure 1**  
Regional Location

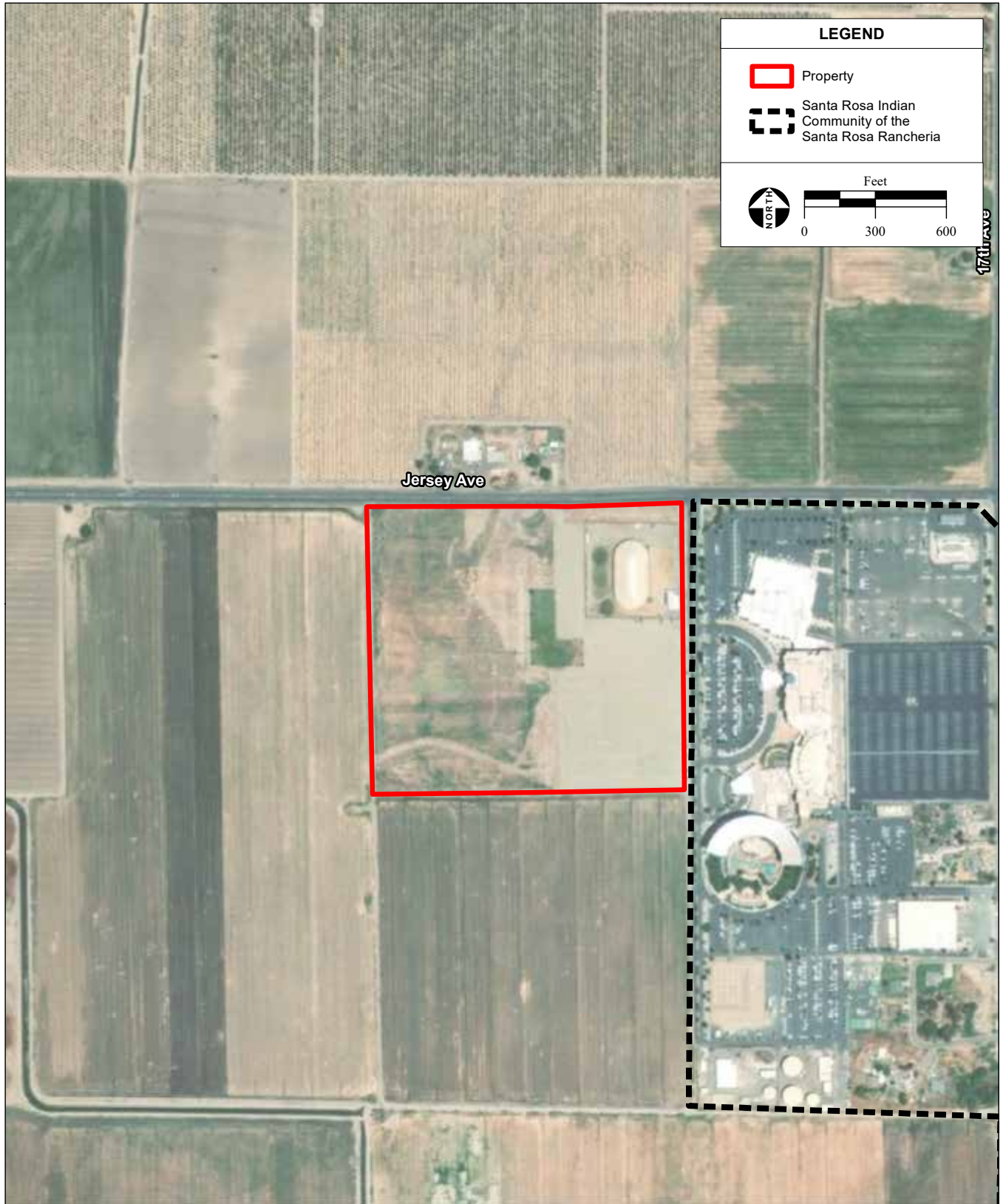


SOURCE: "Stratford, CA" USGS 7.5 Minute Topographic  
Quadrangles, T19S R20E Section 35, Mt. Diablo Baseline &  
Meridian; Montrose Environmental, 4/8/2022

Tachi Yokut Commercial Center and Tribal Museum Project Environmental Assessment / 220503 ■

**Figure 2**  
Site and Vicinity





SOURCE: Maxar aerial photograph, 6/25/2021;  
Montrose Environmental, 4/8/2022

Tachi Yokut Commercial Center and Tribal Museum Project Environmental Assessment / 220503 ■

**Figure 3**  
Aerial Photograph

Land use of the Property currently includes overflow parking for the Casino and use of an existing events center in the eastern portion of the Property. Lands surrounding the Property consist of agricultural uses and the adjacent Casino and residences on the Rancheria. Terrain on the Property is level with elevations ranging from 195 to 200 feet above mean sea level (amsl). The Property parcels are zoned under Kings County Code as Agriculture and have a land use designation of AG20 (General Agriculture) in the Kings County General Plan. A site plan depicting the Project Site boundary is included as **Figure 4**.

Approximately 9.0 acres of the Property is already developed as a gravel parking lot used to accommodate parking for the existing on-site events center and occasionally overflow parking needs for the neighboring Casino. Approximately 3.75 acres of the Property is currently devoted to the existing events center, which is a sprung structure surrounded by chain link and slat fencing. Additionally, 1.25 acres of the Property consist of a landscaped lawn area. The balance of the Property is agricultural land that was historically used for agricultural crop production and is currently still considered active agricultural land for the purpose of row crop production.

## **1.2 PURPOSE AND NEED FOR THE PROPOSED ACTION**

The Proposed Action is the acquisition of the Property in trust for the Tribe pursuant to the Secretary's authority under the Indian Reorganization Act, 25 USC § 5108. The purpose of the Proposed Action is to facilitate tribal self-sufficiency, self-determination, and economic development. The Proposed Action would facilitate tribal self-sufficiency and self-determination by generating Tribal educational and employment opportunities. The Proposed Action would also facilitate tribal economic development by diversifying the Tribe's revenue stream with an additional income source that differs from the Tribe's existing economic ventures. Diversification in economic development would provide the Tribe additional economic stability, thus increasing Tribal self-sufficiency and self-determination. This would satisfy the Department's land acquisition policy as articulated in the Department's trust land regulations at 25 C.F.R. Part 151. The need for the Department to act on the Tribe's application is established by the Department's regulations at 25 C.F.R. §§ 151.10(h) and 151.12.

## **1.3 BACKGROUND**

The 1,635-acre Rancheria was established in 1934 in Kings County, California, approximately two miles southeast of the City of Lemoore and approximately 7 miles southwest of the City of Hanford. The original Reservation consisted of 40 acres of desolate farmland. Forty people below poverty level lived on the original Reservation. Introduction of the Indian Gaming Act allowed the Tribe to further goals of self-sufficiency through development of the Tachi Palace Hotel & Casino, which first opened in 1983. Tribal enterprises now include the Casino, adjacent Yokut Gas Station, and Sequoia Inn located in Hanford.

The Tribe currently owns the Property in fee. Land uses on the Property historically consisted of agricultural crop production. Currently, the eastern portion of the Property is used for Casino overflow parking and a sprung-structure events center. The Proposed Project would create approximately 25-45 new jobs for tribal members and non-tribal members, and would assist the Tribe in addressing the lack of an adequate tribal land base sufficient to support their economic needs. The Proposed Action would help the Tribe meet its long-term goals of increased Tribal revenue to strengthen the tribal government and fund a variety of social, governmental, administrative, educational, health and welfare services to improve the quality of life of tribal members.

Although transferring the Property into federal trust status for the Tribe would result in a loss of taxation by the State and local jurisdictions, the Tribe has numerous partnerships with local agencies and groups.



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For example, the Tribe and Kings County entered into a Memorandum of Understanding (MOU) in 2003, in which the Tribe provided funding for maintenance of County-maintained roads, the provision of law enforcement services, and the provision of County fire protection and emergency services. The Tribe regularly contributes donations towards local fire, law enforcement, education facilities, and more.

The Tribe has donated fire trucks to fire departments in nearby cities, as well as equipment to the Kings County Fire Department, such as replacement fire apparatus and emergency defibrillators, and a charitable contribution of \$586,054. The Tribe has also made charitable contributions to Toys for Tots and Relay for Life, and donates to the Kings County service system to fund public services, such as fire and police protection services. Furthermore, the Tribe currently contributes \$900,000 per year to the Kings County annual budget through a Mitigation Agreement with Kings County; these funds are distributed to the Kings County Fire Department and Sheriff's Department.

## 1.4 REGULATORY REQUIREMENTS AND APPROVALS

The Proposed Project, as described in **Section 2.1**, may require federal and local approvals and actions. **Table 2** identifies each potentially responsible agency and potential permits or approvals that may be needed. Additionally, approval of the Proposed Project by the Tribal Council would be required prior to implementation.

**TABLE 2: POTENTIAL PERMITS AND APPROVALS NEEDED**

Agency	Permit or Approval
<b>Federal</b>	
Secretary of the Interior	Transfer of Property into federal trust status for the Tribe
CA Office of Historic Preservation	Consultation under Section 106 of the National Historic Preservation Act
United States Environmental Protection Agency (USEPA)	Verification of project coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Construction Activities as required by the Clean Water Act (CWA)
<b>State/Local</b>	
Kings County	Issuance of encroachment permits for frontage and access improvements.

# SECTION 2.0

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## PROPOSED PROJECT AND ALTERNATIVES

This section describes the alternatives analyzed within this document consistent with CEQ guidelines (40 CFR § 1502.14). A reasonable range of alternatives is evaluated in this EA based on consideration of the purpose and need of the Proposed Project and opportunities for reducing environmental effects. Alternatives are summarized below.

**Alternative A - Proposed Project:** Acquisition of the Property into federal trust and the development of a commercial center, tribal museum, and associated infrastructure (**Figure 4**).

**Alternative B - No Action:** No land acquisition into trust and no construction on the Property for the foreseeable future.

### 2.1 ALTERNATIVE A: PROPOSED PROJECT

Alternative A consists of the following: (1) transfer of the Property into federal trust for the benefit of the Tribe, and (2) development of a commercial center, tribal museum, and associated infrastructure. Project components are discussed in detail below. Existing land uses outside of the Project Site would not be altered by the Proposed Project. Proposed site plans for Alternative A are shown on **Figure 4**.

#### 2.1.1 COMMERCIAL CENTER AND TRIBAL CULTURAL MUSEUM

As part of the Proposed Project, an approximate 15,000 square-foot (sf) commercial center would be constructed in the northwestern portion of the Property (**Figure 4**). The commercial center would be a single-story structure and would be consistent with the aesthetic design of adjacent development. Portions of the commercial center would be rented to Tribal members and potentially non-Tribal members for the purposes of small business shops. The Proposed Project also includes an approximately 10,000 sf tribal cultural museum (**Figure 4**). The museum would be consistent with the aesthetic design and height of other nearby development. Colors of structures would be largely earth tone and neutral so as to blend in with the landscape. Vegetation used for landscaping would largely consist of native, drought-tolerant plants. Operational employment of the Proposed Project is anticipated to be between 25 and 45 personnel.

#### 2.1.2 INFRASTRUCTURE IMPROVEMENTS

Access to the Project Site would occur from two new access driveways off Jersey Avenue. The access driveways would be one lane in each direction with a width of 12 feet per lane and a shoulder of two feet on both sides. The parking lot would have approximately 185 parking stalls measuring 18 feet by 9 feet.

Potable water would be provided via an existing, on-site groundwater well. Reclaimed water produced by the Casino would be used for non-potable uses such as irrigation. An electrical connection is already available on the site and provided by PG&E. This existing connection would serve the Proposed Project's electrical demands. Wastewater would be connected to the adjacent Casino's existing wastewater treatment plant (WWTP). Natural gas, if needed, would be provided by the Southern California Gas Company. Curbs, gutters, landscaping, and similar infrastructure to direct runoff would be installed within the Project Site perimeter to direct water into existing drainage ditches.

### 2.1.3 CONSTRUCTION DETAILS

Construction of the Proposed Project is anticipated to commence in early 2023 and last approximately six to eight months. Construction would involve earthwork, placement of concrete foundation, structural framing, electrical and mechanical work, building finishing, paving, and grading. Given the level topography of the Property, construction will likely be accomplished with balanced onsite cut and fill, although some structural-grade fill may be imported to meet engineering requirements. Structures would adhere to the equivalent of California building codes.

### 2.1.4 BEST MANAGEMENT PRACTICES

BMPs discussed below have been incorporated into Project design to reduce potential impacts of Alternative A.

#### Land Resources

- Site preparation and earthwork will be performed by licensed contractors.
- Suitability of earth and construction materials will be determined by a licensed professional utilizing geotechnical/soils evaluation procedures consistent with standard engineering practices.
- Grading/drainage plans, subsurface investigations, slope stability and seismic design calculations, and paving and design parameters will be specified under the supervision of appropriate licensed professionals.

#### Water Resources

- High water-demand plants will be minimized in landscaping plans.
- Prior to finalization of grading and drainage plans, design-level specifications will be developed.
- Appropriate storm water and erosion control BMPs will be implemented, and will include the following:
  - Construction activities will be conducted during the dry season to the extent feasible.
  - Erosional control measures will be complied with prior to and during construction.
  - Straw mulch or similar will be applied at the manufacture's specifications to stabilize disturbed areas as needed.
  - Undeveloped areas will be kept as permeable surfaces to the extent feasible.

#### Air Quality and Climate Change

- Active construction areas will be watered as needed to reduce dust.
- Trucks hauling soil and other loose materials will be covered or required to maintain at least two feet of freeboard.
- Dirt, gravel, and debris piles will be covered as needed to reduce dust and wind-blown debris.
- Engines will be kept in good mechanical condition to minimize exhaust emissions.
- Emissions of volatile organic compounds, nitrogen oxides, sulfur oxides, and carbon monoxide will be controlled by requiring diesel-powered equipment to be properly maintained and minimizing idling time to five minutes when construction equipment is not in use, unless per engine manufacturer's specifications or for safety reasons.
- Low-flow appliances and drought-tolerant landscaping will be implemented to the extent feasible.

#### Noise

- Construction activities will be limited to daytime hours (7:00 am to 7:00 pm).

- Powered equipment will comply with applicable federal regulations and will be fitted with adequate mufflers according to manufacturing specifications to minimize construction noise.

### Public Services

- Construction equipment that normally includes a spark arrester will be equipped with a spark arrester in good working order. This includes, but is not limited to, vehicles and heavy equipment.

### Hazardous Materials

Personnel will follow BMPs for filling and servicing construction equipment and vehicles. BMPs that are designed to reduce the potential for incidents/spills involving the hazardous materials include the following:

- Secondary containment will be provided for potentially hazardous materials during construction.
- Fuel, oil, and hydraulic fluids will be transferred directly from a service truck to construction equipment.
- Catch-pans will be placed under equipment to catch potential spills during servicing.
- Vehicle engines will be shut down during refueling.
- No smoking, open flames, or welding will be allowed in refueling or service areas.
- Refueling will be conducted away from water to prevent contamination in the event of a leak.
- Should a spill occur, contaminated soil will be contained and disposed of pursuant to applicable regulations.

### Visual Resources

- Outdoor lighting shall be limited to downcast/shielded lights that would not overspill the Property.

## 2.2 ALTERNATIVE B: NO ACTION

Under the No Action Alternative, additional land would not be placed in trust for the benefit of the Tribe and no foreseeable change in land use on the Property would occur. Jurisdiction of the Property would remain with the State and/or County. Ultimately, the Property could be developed or sold by the Tribe consistent with County zoning and policies. As these scenarios are speculative, for purposes of analysis in this EA, it is assumed further development would not occur on the Property.

## 2.3 COMPARISON OF ALTERNATIVES

Alternative A includes transfer of the Property into trust followed by construction of the Proposed Project (**Figure 4**). There would be no changes to existing development on the Property. Alternative B, as the No Action Alternative, would mean that development would not occur on the Property, and the Property would remain under the jurisdiction of the County. As discussed above, the Property under the No Action Alternative may in the future be developed and/or sold consistent with federal, state, and local regulations. However, as these possibilities are speculative, this assessment does not assume that these actions would occur. Under the No Action Alternative, foreseeable activities on the Property would therefore be limited to existing land uses, which include overflow Casino parking, an events center, landscaping, and agricultural uses.

Potential environmental impacts would be higher under Alternative A when compared to Alternative B, as Alternative B is the No Action Alternative and development would not occur in the foreseeable future under Alternative B. However, Alternative B would not fulfil the stated purpose and need and Alternative



A would. Among the alternatives considered, Alternative A would best meet the Tribe's needs and would provide the greatest benefit to the Tribe. Potential environmental impacts associated with Alternative A would be less than significant with implementation of BMPs discussed in **Section 2.1.4** and mitigation measures listed in **Section 4.0**.

## **2.4 ALTERNATIVES ELIMINATED FROM FURTHER CONSIDERATION**

Section 1502.14(a) of CEQ regulations for implementing NEPA requires a discussion of alternatives eliminated from further study, as well as reasons for elimination. The following alternatives were considered and excluded from further analysis due to infeasibility, inability to fulfill the stated purpose and need, and/or were not sufficiently distinguishable from the assessed alternatives to offer additional information to assist the BIA in the consideration of impacts under NEPA.

1. Alternatives that reduced the size of the commercial center or tribal museum were considered. However, potential environmental impacts associated with the commercial center and tribal museum can be reduced to less-than-significant levels, as discussed in **Section 3.0**, and reduction in the size of these structures would not be significantly different compared to the Proposed Project.
2. Other alternative locations were considered, but were eliminated due to higher cost, conflicts with sensitive environmental resources, and other potentially greater environmental impacts and/or lack of sufficient road access and infrastructure.

# SECTION 3.0

## AFFECTED ENVIRONMENT & ENVIRONMENTAL CONSEQUENCES

In accordance with NEPA and the BIA Implementing Guidelines (59 IAM 3-H), existing conditions described herein provide the baseline for determining potential environmental effects of the alternatives. Applicable federal, state, and local laws and regulations are listed under each issue area and further discussed in **Appendix A**. State and local laws and regulations apply to the Property prior to acquisition into trust, but are generally not applicable to trust land. Additionally, the environmental setting of each section discussed below is the same for Alternatives A and B.

The following issue areas are evaluated in this EA in accordance with NEPA: Land Resources, Water Resources, Air Quality, Living Resources, Cultural Resources, Socioeconomic Conditions, Transportation Networks, Land Use and Agriculture, Noise, Visual Resources, Public Services, and Hazardous Materials. Alternatives would not result in timber harvest; therefore, this issue area is not analyzed further. Additionally, alternatives would not contribute to regional population growth, housing development, or housing demolition, therefore, public schools, parks, and recreation would not be impacted and are not analyzed further.

### 3.1 LAND RESOURCES

#### 3.1.1 AFFECTED ENVIRONMENT

##### Regulatory Setting

The regulatory setting for land resources is summarized in **Table 3** and further discussed in **Appendix A**.

**TABLE 3: REGULATORY POLICIES AND PLANS RELATED TO LAND RESOURCES**

Regulation	Description
FEDERAL	
National Earthquake Hazards Reduction Program	- Established the National Earthquake Hazards Reduction Program to reduce earthquake hazards
STATE AND LOCAL	
Alquist-Priolo Earthquake Fault Zoning Act	- Identifies active and potentially active faults - Regulates development in these areas
Seismic Hazards Mapping Act	- Identifies areas with seismic hazards - Requires agencies to consider seismic hazard reductions prior to issuing permits
Kings County General Plan	- Identifies goals and policies to ameliorate risks associated with development in areas of geological sensitivity

##### Environmental Setting

The Property is located within the Central Valley, which is bordered by the coastal range to the west and the Sierra Nevada Mountains to the east. Faults that have shown signs of seismic activity during the last 1.6 million years are considered potentially active. The closest known fault to the Property is the Coalinga

section of the Great Valley Thrust Fault System, which is approximately 20 miles southwest of the Property (USGS, 2021a). This is a historic fault that is not active.

The California Department of Conservation maps quaternary faults that may pose risks associated with fault rupture, liquefaction, or landslides. These faults are considered Earthquake Hazard Zones. The nearest Earthquake Hazard Zone fault is the San Andreas Fault, which is located approximately 44.5 miles southwest of the Property (CDC, 2021). The Property is not located in an Alquist-Priolo Earthquake Fault Zone or Seismic Hazard Zone as defined by the Seismic Hazards Mapping Act, thus the risk of fault rupture is low.

A custom soils report for the Property is included as **Appendix B**. The Property consists of the following soils: Grangeville fine sandy loam, saline-alkali, partially drained (40.5 acres, 98.4 percent of the Property); and Kimberlina fine sandy loam, saline-alkali (0.7 acres, 1.6 percent of the Property). Soils on the Property are considered Farmland of Statewide Importance and are not prone to flooding or ponding.

The Property is relatively level, with elevations ranging from 195 to 200 feet amsl and slopes of less than one percent. According to the U.S. Geological Service (USGS), no mineral resources occur within or 10 miles of the Property (USGS, 2021b). No mineral resources are identified near the Property by the County's General Plan.

### 3.1.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

Construction of Alternative A would involve grading, which is further discussed in **Section 2.1**. Construction would largely be accomplished with balanced onsite cut and fill. As discussed in **Section 2.1**, grading activities would be completed pursuant to a geotechnical/soils evaluation prepared consistent with standard engineering practices. Additionally, erosion control BMPs would be in place throughout construction. Given the level nature of the Property and the soils present, erosion risk on site is low. Operation of the Proposed Project would not require ongoing ground disturbance.

Seismic events pose little risk to the Property given the flat nature of the site and the distance to the nearest potentially active fault. The County's General Plan, Figure HS-2 Seismic Safety Map, identifies the Property as a V1 seismic zone, where impacts from seismic events are anticipated to be minimal. Soils and topography on site are not prone to liquefaction or landslides, and the Proposed Project would not modify the overall topography of the site. As discussed in **Section 2.1**, construction would adhere to the equivalent of state building codes, which are designed to ensure that buildings meet seismic design standards that reduce the risk of building failure in the event of seismic activity. Therefore, construction and operation of the Proposed Project would not introduce significant risks to life or property due to seismic events.

There are no mineral resources on or in the vicinity of the Property. Therefore, construction and operation of the Proposed Project would not affect mineral resources.

BMPs listed in **Section 2.1.4** would be incorporated into Project design, including compliance with standard engineering practices and use of erosion control BMPs as needed. With consideration of project BMPs, Alternative A would have a less-than-significant impact on land resources.

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to land resources.

## 3.2 WATER RESOURCES

### 3.2.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for water resources is summarized in **Table 4** and further discussed in **Appendix A**.

**TABLE 4: REGULATORY POLICIES AND PLANS RELATED TO WATER RESOURCES**

Regulation	Description
FEDERAL	
Federal Clean Water Act	- Governs water quality and protects waters of the U.S.
CWA Anti-degradation Policy	- Requires that each state develop an anti-degradation policy
Safe Drinking Water Act	- Establishes minimal drinking water standards and groundwater protection
Disaster Relief Act	- Developed the Federal Emergency Management Agency
STATE AND LOCAL	
Porter-Cologne Water Quality Control Act	- Sets water quality objectives and how objectives are to be achieved
RWQCB's Anti-degradation Policy	- Requires the development of RWQCB Basin Plans
California Water Code	- Regulates treatment of wastewater and water conservation
Sustainable Groundwater Management Act	- Regulates groundwater management consistent with water rights

#### Environmental Setting

The Property is located in the Tulare Lake basin (HUC 8, 18030012) and Tulare Lake Subbasin, within the Mussel Slough watershed (HUC 12, 180300122003) (USGS, 2022; Mid-Kings River GSA, 2022). The Tulare Lake basin covers an area of approximately 837 square miles with recharge sourced from rivers, streams, and canal systems via direct infiltration. Major rivers that supply water to the Subbasin include the Kings, Kaweah, Tule, and Kern Rivers. Locally, the area is dependent on groundwater resources for agriculture and domestic use, and imported water (SFK, 2020). The Property is not within a 100 or 500-year floodplain and is at minimal risk for flooding (FEMA, 2022).

### 3.2.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

##### *Water Supply and Wastewater*

Water supply for the Proposed Project will be supplied from an on-site ground water well, and wastewater will be treated using the existing Casino's WWTP. The Tribe is also drilling several new wells on trust land (separate from Alternative A), but which may be incidentally used by Alternative A. The U.S. Energy Information Administration maintains approximate water consumption demands per square foot of large commercial developments (U.S. Energy Information Administration, 2017). Data collected did not

specifically remove incidental water use for items such as landscaping or fire protection. Water use within retail centers, such as strip malls, was found to require an average of 11.8 gallons per year (gpy) per square foot. While museums were not specifically analyzed, demand per square foot would likely be similar as water demand for both the retail center and museum would be limited to incidental uses such as toilet flushing, handwashing, and drinking and would not include high-demand activities.

With a total square footage of 25,000 sf, estimated water demands would be 177,000 gpy or approximately 0.54 acre-feet (AF) per year. This averages to approximately 485 gallons per day. Currently, the Tribe utilizes existing wells located on lands held in fee or trust by the Tribe to service water demands on the Property, primarily via a groundwater well adjacent to the Coyote Entertainment Center. Existing water use on the Property is minimal and limited to irrigating a grassy portion of the site. The Tulare Lake Subbasin has an estimated 80.9 million AF of water and a net change in storage of -294,320 AF per year as of 2016. However, the subbasin is monitored under the Tulare Lake Subbasin Groundwater Sustainable Plan, which regulates groundwater extraction, monitors to ensure that overdraft does not occur, and implements long-term recharge and banking projects that are considered key to stabilizing groundwater levels by 2040 (Mid-Kings River GSA, 2022). The Sustainability Plan has accounted for population and developmental growth in the region. The Tulare Lake Subbasin Groundwater Sustainable Plan considers regional land use planning when determining future groundwater demands of the region. As discussed in **Section 3.8**, the Property is zoned for agricultural purposes. Agricultural water demands would exceed anticipated water demands of Alternative A. Therefore, the existing wells would be sufficient to meet the Proposed Project's needs and would not significantly affect groundwater levels.

Wastewater would be connected to the adjacent Casino's existing WWTP on the Tribe's trust land. The Casino's existing WWTP has a capacity of 500,000 gpd, with an average existing flow of 386,100 gpd. During peak flows, approximately 50 percent of the existing drying beds are utilized. Therefore, the Casino's WWTP currently has an excess capacity of approximately 336,100 gpd (Tachi-Yokut Tribe, 2020). Wastewater production of Alternative A would be minimal compared to the existing demand of the Casino, and the Casino's existing WWTP is sufficient to provide wastewater treatment for the Proposed Project. Water demands for the Proposed Project would be low.

### *Drainage*

The Property is not located within a 100- or 500-year FEMA designated floodplain nor in an area of high flood hazard. Topography of the Property is relatively level. However, development on the Property would involve ground-disturbing activities that could result in minor erosion and sedimentation.

During construction of Alternative A, limited quantities of potentially hazardous substances such as fuels, solvents, oils, and paints would be used and stored onsite. A hazardous material spill or leak could pose a temporary hazard to water quality during construction. Potentially hazardous materials stored and used during construction would not remain during operation. BMPs discussed in **Section 2.1.4** would be incorporated into Project design to reduce potential Project-related impacts on water quality, and stormwater drainage infrastructure would be installed within the Project Site to properly direct runoff to existing drainage ditches. The BMPs would reduce potential impacts to water quality by maintaining undeveloped areas as pervious surfaces, implementing stormwater and erosion BMPs, and implementing appropriate drainage infrastructure developed by a licensed professional. A Stormwater Pollution Protection Plan (SWPPP) would be prepared and would include water quality control measures that would be implemented during construction and site stabilization following construction. BMPs associated with Land Resources and Hazardous Materials in **Section 2.1.4** will be incorporated into Project design to

reduce potential impacts associated with drainage and use of limited hazardous materials during construction. There would be a less-than-significant impact.

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust and the Property would remain in its current state. Therefore, there would be no impact on water resources.

## 3.3 AIR QUALITY AND CLIMATE CHANGE

### 3.3.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for air quality and climate change is summarized in **Table 5** and further discussed in **Appendix A**.

**TABLE 5: REGULATORY POLICIES AND PLANS RELATED TO AIR QUALITY AND CLIMATE CHANGE**

Regulation	Description
FEDERAL	
Federal Clean Air Act	– Identifies regulations to protect and enhance air quality
Federal Attainment Status	– Identifies whether air quality in a region meets air quality standards
Federal General Conformity	– Establishes minimum thresholds for pollutants in non-attainment and maintenance areas
Federal Hazardous Air Pollutant Program	– Regulates levels of hazardous air pollutants
Federal Clean Air Act and Indian Tribes	– Designates the USEPA as the agency with jurisdiction for issuing regulations regarding air quality on Tribal land
Federal Class I Areas	– Requires that pollutant sources be evaluated to determine if new sources are near certain public parks
Tribal New Source Review	– Requires a new source permit be attained by a tribe prior to pollutant source development if exceeding minor New Source Review levels
National Environmental Policy Act	– Requires that a project be evaluated for the level of impact to air quality and provide mitigation as necessary to minimize impacts
STATE AND LOCAL	
California Clean Air Act	– Established a state-wide pollution control program
California SIP	– Consists of the compilation of air quality attainment plans for each Air Quality Management District
San Joaquin Valley Air Pollution Control District	– Monitors and regulates air quality within the San Joaquin Valley Air Pollution Control District
Regional Climate Action Plan, Kings County	– Identifies goals and policies to reach attainment standards
County of King General Plan	– Identifies County goals and polices related to air quality
State Legislation – Climate Change	– Comprised of several Assembly Bills and Executive Orders – Implements long-term air quality standards and building standards

## Environmental Setting

The Property is located in the San Joaquin Valley Air Basin (SJVAB). Criteria air pollutants (CAPs) are classified as nonattainment, attainment, or maintenance. Ozone precursors, which include ROGs and NO<sub>x</sub>, react in the atmosphere with sunlight to form ozone. Ground-level ozone is a respiratory irritant that increases susceptibility to respiratory infections. The SJVAB is designated as non-attainment/extreme for ozone (O<sub>3</sub> [precursors nitrous oxide (NO<sub>x</sub>) and reactive organic gases (ROG)]) under the National Ambient Air Quality Standard (NAAQS) and non-attainment/serious for particulate matter 2.5-microns in diameter or less (PM<sub>2.5</sub>) under the NAAQS, and therefore these are pollutants of concern (POC).

The SJVAB attainment status is shown in **Table 6**. Emissions within Kings County are estimated and documented through the San Joaquin Valley Air Pollution Control District (SJVAPCD) and California Air Resource Board (CARB). The County is similar to other portions of California and the U.S. in that a large portion of carbon monoxide (CO) emissions stem from mobile sources (approximately 80 percent), with the majority coming from passenger cars and trucks (City of Hanford, 2010). NO<sub>x</sub> is also dominated by mobile sources (95.0 percent), predominately passenger cars and trucks; however, heavy-duty diesel trucks account for a larger portion of NO<sub>x</sub> emissions. In the County, approximately 63.8 percent of ROG emissions are due to mobile sources, while consumer products compose 18.5 percent and the remainder are area sources (City of Hanford, 2010).

**TABLE 6: SJVAB ATTAINMENT STATUS**

Pollutant	NAAQS
O <sub>3</sub> , 8-hour <sup>1</sup>	Non-Attainment/Extreme
PM <sub>10</sub>	Attainment
PM <sub>2.5</sub> <sup>1</sup>	Non-Attainment/Serious
CO <sup>1</sup>	Attainment/Unclassified
N <sub>2</sub> O	Attainment/Unclassified
SO <sub>2</sub>	Attainment/Unclassified
Pb	No Designation/Classification
<sup>1</sup> Pollutants of Concern. Note: N <sub>2</sub> O = nitrous oxide; SO <sub>2</sub> = sulfur dioxide; Pb = lead Source: SJVAPCD, 2012.	

Sources of GHG emissions include electricity, transportation, natural gas, solid waste disposal, refrigerants, and water transport. Emissions from water transport are generated from the energy demands of serving water and are affected by the renewable mix of the power provider and the service delivery distance. Emissions from solid waste disposal include landfill biogas, composting, and land treatment.

The heat-trapping or “global warming” potential (GWP) of a gas is compared to carbon dioxide (CO<sub>2</sub>) as a baseline—which has a heat trapping potential of one—and is reported in terms of CO<sub>2</sub>e, usually over a 100-year time frame. The GWP of a GHG decreases over time, and the length of time a GHG remains in the atmosphere can vary substantially. According to the 2013 Intergovernmental Panel on Climate Change Fifth Assessment Report (ICPP AR5), when including climate-carbon feedbacks, CH<sub>4</sub> has a GWP of 34 and N<sub>2</sub>O has a GWP of 298 (Myhre et al., 2013). For electricity generation, the CO<sub>2</sub>e depends on the fuel mix, and particularly the proportion of renewable energy, used by the power provider. Mobile sources are

generated from both on- and off-road vehicles and equipment. CO<sub>2</sub>e provides a means for presenting the relative overall effectiveness of emission reduction measures for various GHGs.

Emissions within Kings County are estimated and documented through the Kings County Community-Wide Greenhouse Gas Emissions Inventory prepared by SJVAPCD in April 2013 reflecting 2005 regional emissions levels (KCAG, 2014). In 2005, the region emitted approximately 1,139,135 metric tons (MT) CO<sub>2</sub>e. The inventory also considered emissions absorbed from carbon sequestration and capture, and found that net emissions were 1,046,804 MT CO<sub>2</sub>e (KCAG, 2014). The County is similar to other portions of California and the U.S. in that a large portion of CO emissions stem from mobile sources (approximately 79 percent statewide), with the majority coming from passenger cars and trucks.

In 2005, 42 percent of CO<sub>2</sub>e emissions were due to transportation (KCAG, 2014). Electricity composed 31 percent, and fuel combustion composed 25 percent of emissions, respectively, and waste composed the remaining emissions (KCAG, 2014).

Potentially occurring odors are also considered a component of the air quality environment. Types of operations typically evaluated for odors include waste processing and industrial facilities such as wastewater treatment plants, landfills, and confined animal facilities. CAPs and GHGs in the vicinity of the Property are predominately emitted by mobile sources associated with transportation due to the close proximity to State Route 198, approximately 3.5-miles northeast of the Property and State Route 41 located 2.5 miles west of the Property.

Sensitive receptors include land uses that house or attract individuals susceptible to adverse impacts from air pollution, and these locations should be given special consideration when evaluating air quality impacts of projects. Hospitals, schools, convalescent homes, parks, churches and residential areas are examples of sensitive receptors. The nearest sensitive receptors from the Property is a residence approximately 200 feet north across Jersey Avenue. The nearest non-residential receptor is Central Union Elementary School located over 2,000 feet northwest.

### 3.3.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

An impact would be considered significant if construction or operational emissions from the Proposed Project of the ozone precursors nitrogen oxide (NO<sub>x</sub>) or reactive organic gases (ROG) were to exceed *de minimis* levels as provided in Federal Conformity Regulations found at 40 CFR 93.

Conformity *de minimis* levels for NO<sub>x</sub> and ROG are 10 tons per year (tpy) per pollutant and 70 tpy for PM<sub>2.5</sub> emissions (USEPA, 2016). Other federal criteria air pollutants (CAPs) are in attainment or maintenance in the San Joaquin Valley Air Basin (SJVAB). In accordance with the Federal Conformity Regulation, Project emissions of CAPs in an attainment area would have a less-than-significant impact on regional air quality.

Construction and operational criteria pollutants were estimated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0, the latest air quality model approved by the USEPA. Construction was modeled to begin in January 2023 and ending in September 2023. CalEEMod operational defaults were used for water usage, trip length, and other parameters. Trip generation rates are from the ITE Trip Generation Manual, 10th Edition. A description of CalEEMod inputs is provided in **Appendix C**.



Given the global nature of climate change, individual project impacts are most appropriately addressed in terms of the incremental contribution to a global cumulative impact. Therefore, cumulative impacts related to climate change are discussed in **Section 3.13**.

### Construction Emissions

Construction of Alternative A would generate criteria air pollutants from construction equipment (primarily diesel-operated), worker automobiles (primarily gasoline-operated), and land disturbance. Construction emissions are summarized in **Table 7** and CalEEMod output files are provided in **Appendix C**.

Alternative A emissions were compared to applicable *de minimis* thresholds for purposes of this analysis. Ozone (precursors ROG and NO<sub>x</sub>) and PM-2.5 are designated as nonattainment in the SJVAB and in accordance with the NAAQS are subject to federal *de minimis* thresholds of 10 tpy and 70 tpy, respectively. The generation of construction-related emissions is a short-term impact and, as shown in **Table 7**, are less than federal *de minimis* levels. Additionally, protective measures and BMPs discussed under Air Quality and Climate Change in **Section 2.1.4** would be incorporated to further reduce construction-related emissions. There would be a less-than-significant impact.

**TABLE 7: UNMITIGATED CONSTRUCTION EMISSIONS - ALTERNATIVE A**

Construction Year	Pollutants of Concern (Tons Per Year)					
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
2023	0.41	1.70	1.86	0.00	0.16	0.10
Maximum Year Construction Emissions	0.41	1.70	1.86	0.00	0.16	0.10
<i>De Minimis levels</i>	10	10	N/A	N/A	N/A	70
<b>Exceeds Thresholds</b>	<b>No</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>No</b>
N/A = not applicable; unclassified threshold See <b>Appendix C</b> for full results. Source: CalEEMod 2020.4.0; USEPA, 2016.						

### Operational Emissions

Operational emissions were based on defaults of CalEEMod inputs (**Appendix C**). **Table 8** summarizes total operational emissions, which would not exceed the federal *de minimis* levels. There would be a less-than-significant impact.

**TABLE 8: UNMITIGATED OPERATIONAL EMISSIONS - ALTERNATIVE A**

Source Category	Pollutants of Concern (Tons Per Year)					
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	0.12	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	0.28	0.46	2.24	0.00	0.44	0.12
<b>Total</b>	<b>0.40</b>	<b>0.48</b>	<b>2.26</b>	<b>0.00</b>	<b>0.44</b>	<b>0.12</b>
<i>De Minimis levels</i> <sup>2</sup>	10	10	N/A	N/A	N/A	70
<b>Exceeds Thresholds</b>	<b>No</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>No</b>
N/A = not applicable; unclassified threshold Source: CalEEMod 2020.4.0; USEPA, 2016. See <b>Appendix C</b> for full results.						

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impacts to air quality or climate change.

### 3.4 LIVING RESOURCES

#### 3.4.1 AFFECTED ENVIRONMENT

##### Regulatory Setting

The regulatory setting for living resources is summarized in **Table 9** and further discussed in **Appendix A**.

##### Environmental Setting

A biological resources survey was conducted on the Property on March 11, 2020 and a report was prepared (**Appendix D**). The site was revisited in January 2022. Survey methodologies, habitat descriptions, potentially occurring sensitive biological resources, and survey results are described within **Appendix D**.

**TABLE 9: REGULATORY POLICIES AND PLANS RELATED TO LIVING RESOURCES**

Regulation	Description
FEDERAL	
Federal Endangered Species Act	<ul style="list-style-type: none"> <li>Identifies federally-protected plants and animals</li> <li>Appoints the U.S. Fish and Wildlife Service to identify Critical Habitat</li> </ul>
Migratory Bird Treaty Act	<ul style="list-style-type: none"> <li>Protects migratory birds and their nests from take</li> </ul>
Bald and Golden Eagle Protection Act	<ul style="list-style-type: none"> <li>Protects bald and golden eagles from take</li> </ul>
Clean Water Act Section 404 - Wetlands and Other Waters of the U.S.	<ul style="list-style-type: none"> <li>Regulates impacts to Waters of the U.S. and requires permitting and mitigation for impacts</li> </ul>
STATE AND LOCAL	
California Endangered Species Act	<ul style="list-style-type: none"> <li>Identifies state-protected plants and animals</li> <li>Prohibits take to species protected under the California Endangered Species Act</li> </ul>
California Department of Fish and Game Code	<ul style="list-style-type: none"> <li>Protects birds and their nests</li> <li>Requires permits for impacts to lakes, streams, and riparian habitat</li> <li>Protects other special-status species not protected under the California Endangered Species Act</li> </ul>
Kings County General Plan	<ul style="list-style-type: none"> <li>Identifies County goals and policies to protect natural resources and habitat</li> </ul>

The Property consists of ruderal/disturbed and developed habitat. Developed habitat on the Property includes a dirt parking lot, access drive, and a sprung structure. The Property does not include habitat that is sensitive or of limited distribution.

The National Wetlands Inventory database was queried to determine previously mapped wetlands and other waters of the U.S. (**Appendix D**). The query did not identify wetlands on the Property and no

wetlands were observed during the surveys. There is an agricultural drainage ditch adjacent to the south border of the Property.

Data review and special-status species searches identified 6 special-status plant species and 21 special-status wildlife species with the potential to occur in the region. The Property may contain suitable foraging habitat for two special-status animal species (Swainson's hawk, *Buteo swainsoni*; tricolored blackbird, *Agelaius tricolor*), however suitable nesting habitat for these species is not present. Both of these species are only protected at the state level and are not federally protected.

The Property does not contain suitable habitat to support special-status plant species. Special-status species were not observed during the survey.

### 3.4.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

Habitats on the Property are limited to ruderal/disturbed and developed habitat. These habitats are not considered sensitive. Development of Alternative A would impact approximately 3.1 acres of developed or disturbed land (**Appendix D**). The Property does not contain wetlands or waters of the U.S., and BMPs identified in **Section 2.1.4** would be implemented to prevent impaired waters from leaving the Project Site. Therefore, no impact to wetlands or waters would occur as a result of the Proposed Project.

Trees are not present within the Project Site. The Property contains low quality foraging habitat for Swainson's hawk (*Buteo Swainsoni*) and tricolored blackbird (*Agelaius tricolor*), however the Property is already subject to disturbance and nearby traffic and has a low likelihood of supporting these species.

Potential disturbance to nesting migratory birds within 500 feet of the Project Site could occur should ground disturbing activities commence during the nesting season (approximately February 15 - September 15). Mitigation in **Section 4.1** includes preconstruction nesting bird surveys and avoidance buffers that would protect nesting migratory birds within 500 feet, should construction occur during the general nesting season. With implementation of mitigation measures listed in **Section 4.1**, there would be a less-than-significant impact to living resources.

#### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to living resources.

## 3.5 CULTURAL RESOURCES

### 3.5.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for cultural resources is summarized in **Table 10** and further discussed in **Appendix A**.

#### Environmental Setting

Prehistory in the southern San Joaquin Valley began at an early period, with sites found along the pluvial Tulare and Buena Vista lake shores sometime between 8,000 and 11,000 years Before Present (BP). Local Native American groups would have moved their camps to be near waterways as they expanded and

contracted seasonally. Early sites indicate a dependence upon large animals, as artifacts from lakeshore contexts were suitable for killing and butchering large game.

By 8,000 years BP, many of the large animals that had been hunted were extinct, and the climate had begun a gradual warming process. New animals, new plants, and new habitats forced changes in the way subsistence items were collected and processed, developing into the patterns associated with later prehistoric lifeways.

**TABLE 10: REGULATORY POLICIES AND PLANS RELATED TO CULTURAL RESOURCES**

Regulation	Description
FEDERAL	
National Historic Preservation Act	– Prohibits impacts to prehistoric/historic archaeological objects/site or any object/site listed or eligible for listing on the National Register of Historic Places
National Register of Historic Places	– Delegates the Secretary of the Interior to maintain and expand a National Register of districts, sites, buildings, structures, and objects of significance
Native American Graves Protection and Repatriation Act	– Outlines appropriate actions in the event of discovery of Native American graves on federal lands
Paleontological Resources Preservation Act	– Establishes regulations to provide for the preservation, management, and protection of paleontological resources on Federal lands
STATE AND LOCAL	
California Public Resources Code (5020.1, 5024.1, 21083.2)	– Protects sites or objects on the California Register of Historical Resources – Requires projects to assess impacts to archaeological resources and mitigate
California Health and Safety Code (7050.5)	– Prohibits the removal or disturbance of human remains
Assembly Bill 52	– Prohibits disturbance of a Native American site listed or eligible for listing on the California Register of Historical Resources

The Southern Valley Yokuts occupied the region, and according to Kroeber (1925) were unique among California groups in that they lived in true marshes. Kroeber noted Tachi territory from Fish Slough at Tulare Lake west to the Coast Range, where they overwintered near present-day Coalinga and the Kettleman Hills, close to the former lakeshore. He estimated that the Yokuts territory included about 300 square miles. The Tachi Yokuts who dwelled along the northern and western shores of Tulare Lake and the hills which bordered the valley had a number of named villages, including one near present-day Kettleman City (*Wa/nau*), a village west of the mouth of the Kings River (*Hin/en Chi*), and villages south of Lemoore, including *Wiu* and *Te/weyat*, on the shores of Tulare Lake (Gayton, 1948).

Every ethnographic chronicler commented in one way or another on the communal nature of the Southern Valley Yokuts generally, and the Tachi specifically, observing that they lived either in detached single-family houses lined up next to one another, or in larger communal houses. Powers (1877) noticed that they "display in their encampments a military precision and regularity which are remarkable... [at one end] lives the village captain; in the other, the shaman." While biological families formed the smallest unit of the tribe, each family was tied through the father to a larger political and social unit, making all people "relatives." These units combined into two major groups, called moieties. This dual moiety system of the

Tachi is represented by two main animals, the Eagle and the Coyote. Both play prominently in the stories and songs of the Tachi, and influence the marriage patterns of the past.

### *Cultural Resources Investigation*

In early 2020, Analytical Environmental Services (AES; now Montrose Environmental) requested a records and literature search by the Southern San Joaquin Valley Information Center (SSJVIC; File No. 20-099). The results were received in a letter dated March 2, 2020. Resources reviewed included the National and California registers of historic resources, the Office of Historic Preservation Built Environment Resources Directory, Archaeological Determinations of Eligibility, and the California Inventory of Historic Resources. In addition to reviewing the materials provided by the SSJVIC, AES searched the General Land Office (GLO) surveys and land patent records maintained by the Bureau of Land Management (BLM). The SSJVIC results indicated that no resources have been mapped within the bounds of the Proposed Project Area of Potential Effects (APE), but that four archaeological surveys had been identified within less 0.5 miles of the APE. Review of the online records of the BLM found the following results: there is a GLO survey map from 1869 available for view, but this did not include the APE. The only land patent records available indicated that the Southern Pacific Railroad had claimed nearby property.

### *Native American Consultation*

On February 25, 2020, a letter was sent to the Native American Heritage Commission (NAHC) requesting a Sacred Lands File search and a list of Native American contacts who may have information about the area. The NAHC responded in a letter dated February 28, 2020 that the Sacred Lands file does indicate the presence of Native American cultural resources in the Project Site vicinity and asked that the Santa Rosa Rancheria Tachi Yokut Tribe be contacted. A list of representatives from four other tribes was also provided. As described above, information and assistance was solicited and received from the Santa Rosa Rancheria Tachi Yokut Tribe.

The Tribe has identified cultural resources and a Native American burial site within 0.5-miles of the Property, including the village of *Waiu-Tachi*, located near the Casino. The Tribe provided KMZ location files of their known resources, including three sites in the APE vicinity, without providing detailed information regarding individual resources. The Tribe requested that no specific information be included in any reports. Prehistorically, the dominant feature of the vicinity would have been Mussel Slough, a meandering fresh water tule marsh slough that connected the Kings River with Tulare Lake; this environment would have offered fresh water in a comparatively arid environment and a tremendous range of plant and animal resources for prehistoric exploitation over a wide geographic area. The fact that a number of resources have been located within the vicinity of Mussel Slough even though exploration of the archaeological potential has been limited is an important indication of its significance to the regional Native American population.

### *Paleontological Investigation*

The University of California Museum of Paleontology (UCMP, 2022) online specimen database was examined for information regarding the potential for fossils to occur on the Proposed Project region. The UCMP indicated that over 15,000 fossil specimens have been recovered in Kings County, including bivalves, gastropods, and echinoids, underwater species that would have lived when the San Joaquin Valley was an inland sea. However, none were noted near the APE.

### *Field Survey*

AES-Montrose archaeologist Charlane Gross, M.A., RPA led a survey team that completed a pedestrian survey of the Property on March 11, 2020. The survey team examined the APE utilizing parallel pedestrian transects spaced 15 meters apart. The fields had largely been smoothed, erasing evidence of past agricultural activities. At the time of the survey, there was a large, fenced-off events tent in the northeastern corner of the Property with open dirt surrounding the tent to the south and west, where parking space lines were painted on the ground. A small grassy park was west of the parking area. The remainder of the Property was level and open. At the time of the survey, seasonal grasses and forbs had sprung up, but ground surface visibility ranged from 5 percent to 90 percent, with an average of approximately 20 percent. No resources were identified during the survey.

### *Potential for Fossil Discovery and Buried Archaeological Deposits*

The southern San Joaquin Valley basin is the location of a former inland sea, and elsewhere within Kings County, underwater fossil species are plentiful. The University of California Museum of Paleontology (UCMP, 2022) online specimen database was examined for information regarding the potential for fossils to occur in the region. While none were noted nearby during the UCMP database search, this does not negate the possibility of their presence. The potential for fossils within the area is high.

## 3.5.2 ENVIRONMENTAL CONSEQUENCES

### Alternative A

#### *Archaeological Resources*

For historic properties, a significant adverse effect would occur should implementation of the Proposed Project result in at least one of the following effects to cultural resources that are listed, or eligible for listing, on the National Register of Historic Places:

- Physical destruction of or damage to all or part of the resource;
- Alteration of a resource;
- Removal of the resource from its historic location;
- Change of the character of the resource's use or of physical features within the resource's setting that contribute to its historic significance;
- Introduction of visual, atmospheric, or audible elements that diminish integrity of the resource's significant historic features;
- Neglect of a resource that causes its deterioration; or
- Transfer, lease, or sale of the Property.

A literature review, records search, Native American consultation, and pedestrian survey for the presence of cultural resources were conducted within the APE (**Appendix E**); no historic properties were identified during this effort. Due to the generally rich nature of prehistoric occupation and use of the Mussel Slough region, there is moderate potential for subsurface cultural resources to be discovered during construction. Implementation of mitigation measures listed in **Section 4.2** would reduce adverse effects on unanticipated discoveries of archaeological resources and human remains to a less-than-significant level.

#### *Paleontological Resources*

An impact would be considered significant if it would directly or indirectly destroy significant paleontological resources. As described above, indicators of paleontological resources within the Project Site are absent in the sources consulted, and no such resources were observed in the course of site

surveys. Geologic formations that underlie the Project Site have a high probability of containing paleontological resources. Therefore, there are potential adverse impacts to paleontological resources as a result of Alternative A. Implementation of mitigation measures listed in **Section 4.2** would decrease impacts to unanticipated discoveries of paleontological resources to a less-than-significant level. There would be a less-than-significant impact with mitigation.

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to cultural resources.

### 3.5.3 SHPO CONSULTATION

On August 26, 2022 the BIA initiated consultation with the State Historic Preservation Officer, describing the identification efforts completed for the Proposed Project. A response dated September 7, 2022, was received in which the SHPO agreed that the APE defined for the Proposed Project and the level of effort to identify resources were acceptable and that the SHPO concurred with a finding of “*no historic properties affected*” (**Appendix E**).

## 3.6 SOCIOECONOMIC CONDITIONS

### 3.6.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for socioeconomic conditions is summarized in **Table 11** and further discussed in **Appendix A**.

<b>Regulation</b>	<b>Description</b>
FEDERAL	
Executive Order 12898	– Directs federal agencies to identify and address disproportionately high impacts of federal projects on the health or environment of minority, low-income, and Native American populations
STATE AND LOCAL	
Regional Housing Allocation Plan	– Established the Regional Housing Needs Allocation (RHNA) Plan
Kings County General Plan	– Includes a Housing Element that satisfies the RHNA Plan requirement – Includes a Land Use Element to ensure future development is compatible with anticipated growth and existing land use.

## Environmental Setting

### Taxes

Property taxes for the Property parcels for the 2021-2022 tax year were estimated based on the parcels' assessed values (**Table 12**). For the 2021-2022 tax year, property taxes anticipated to be collected for the parcels total approximately \$44,474.57. Approximately \$39.2 million in property taxes was collected in the County for the 2019-2020 fiscal year (Kings County, 2020). **Table 13** summarizes the County use of funds for collected property taxes.

**TABLE 12: PROPERTY TAXES BY PARCEL**

APN	Acreage	Assessed Value	Tax Rate	Property Tax
024-160-023	18.50	\$314,269	1.102339%	\$3,464.31
024-160-024	18.69	\$3,720,295	1.102339%	\$41,010.26
<b>Total</b>	<b>37.19</b>	<b>\$4,034,564</b>	<b>1.102339%</b>	<b>\$44,474.57</b>

Sources: Tax rate was determined from the 2021-2022 Kings County Tax Rate (Kings County, 2021a). Assessed value was determined by the Kings County Assessor and made available through the ParcelQuest Lite website (Kings County, 2021b).

**TABLE 13: KINGS COUNTY PROPERTY TAXES – USES OF FUNDS**

Uses of Property Tax Funds	Total Property Taxes and Assessments
Schools	51.12%
County/Fire/Library	22.65%
Redevelopment	13.94%
Cities	6.19%
Special Districts	6.09%

Source: Kings County, 2021c

### Population

Kings County has a population of approximately 152,486 as of April 2020 (U.S. Census Bureau, 2020). Between 2010 and 2020, the County experienced a 0.32 percent decrease in population. The state experienced a population decrease of 0.8 percent between April 2020 and July 2021 (U.S. Census Bureau, 2020). A summary of the demographics of California and Kings County is provided in **Table 14**.

**TABLE 14: DEMOGRAPHIC SUMMARY**

Area or Census Tract	Total Population	White (Alone)	Hispanic or Latino	African American	American Indian Or Alaska Native	Asian	Native Hawaiian Or Other Pacific Islander	Total Minority Population	% Minority
California	39,237,836	14,321,811	15,459,707	2,550,460	627,805	6,081,864	196,189	24,916,025	63.5
Kings County	152,486	47,728	81,122	11,436	4,880	6,710	610	104,758	68.7

Source: U.S. Census Bureau, 2020



## Housing

According to guidance from the CEQ and USEPA, agencies should consider the composition of the affected area to determine whether minority populations, low-income populations, or Indian tribes are present in the area affected by a proposed action and, if so, whether there may be disproportionately high and adverse environmental effects to those populations. According to the USEPA, either a county or the state can be used when considering the scope of the “general population.” An affected area that has a minority percentage above the state’s percentage is a potential minority community and any affected area with a minority percentage double that of the state’s is a definite minority community under Executive Order 12898. Communities may be considered “low income” under the Executive Order if the median household income is below the poverty line (primary method of analysis) and/or other indications are present that indicate a low-income community is present (secondary method of analysis).

In most cases, the primary method of analysis will suffice to determine whether a low-income community exists in the affected environment. However, when income may be just above the poverty line or where a low-income pocket within the affected area appears likely, the secondary method of analysis may be warranted. Other indications of a low-income community under the secondary method of analysis include limited access to health care, overburdened or aged infrastructure, and dependence on subsistence living. The median household incomes within the City and County is above the poverty threshold (**Table 15**).

**TABLE 15: HOUSEHOLD INCOMES AND POVERTY THRESHOLDS**

Geographic Area	Median Household Income <sup>1</sup>	Average Household Size	Percent Below Poverty
California	\$75,235	2.95	11.5%
Kings County	\$57,848	3.13	14.5%

Sources: U.S. Census Bureau, 2021  
<sup>1</sup> In 2019 dollars.

The minority population for the County and the State falls within 13 and 19 percent above 50 percent, qualifying the County as a minority community according to the CEQ guidance.

## 3.6.2 ENVIRONMENTAL CONSEQUENCES

### Alternative A

#### *Employment*

Construction of the Proposed Project would provide temporary employment opportunities. It is anticipated that workers will reside locally. The number of construction workers would be small in comparison to the total number of employment positions throughout the region. This would therefore have a small, but positive effect on the local economy. Operation of the Proposed Project is expected to employ between 25 and 45 staff members. Employment opportunities would not be limited to Tribal members and are anticipated to be filled by existing regional occupants. This would provide a small but positive effect on the local economy and local employment opportunities.

#### *Fiscal Effects*

**Table 12** summarizes the estimated property taxes that the County would collect for the 2021-2022 fiscal year. In the absence of the Property being taken into trust, Property taxes would have continued to be paid to the County on an ongoing basis. Based on the County’s zoning and land use designation for the parcel, it was anticipated that agricultural activities would be ongoing on the Property. Therefore, revenue

from potential future development were not anticipated for the Property. Because the Property would be taken into trust and thus would not be subject to local taxes, total local taxes would be less under the Proposed Project in comparison with future property tax revenues if the Property were to remain in the jurisdiction of the County.

Alternative A would result in the removal of two parcels from the County's property tax rolls, totaling approximately 37.19 acres. For the 2021-2022 tax year, property taxes for the parcels are estimated at approximately \$44,474.57 (**Table 12**). Approximately \$39.2 million in property taxes was collected in the County for the 2019-2020 fiscal year (Kings County, 2020). The tax on the Property represents approximately 0.11 percent of just the County's total property tax revenue, not including other County sources of tax revenue. In determining impacts to the County's tax base, the 0.11 percent loss in property taxes is diminutive, and would not lead to adverse impacts.

### *Environmental Justice*

The USEPA's Final Guidance provides the following guidance for defining and assessing impacts to minority and/or low-income populations:

- A minority population may be present if the minority population percentage of the affected area is "meaningfully greater" than the minority population percentage in the general population or other "appropriate unit of geographic analysis."
- The NEPA analysis should also make every effort to identify the presence of distinct minority communities residing both within, and in close proximity to, the Proposed Project, and to identify those minority groups which utilize or are dependent upon natural resources that could be potentially affected by the Proposed Project.
- Pursuant to the CEQ guidance, low-income populations in an affected area (that area in which the Proposed Project will or may have an effect) should be identified with the statistical poverty thresholds from the U.S. Census Bureau on Income and Poverty.
- In identifying low-income populations, agencies may consider as a community a group of individuals living in geographic proximity to one another or set of individuals (such as migrant workers or Native Americans) where either type of group experiences common conditions of environmental exposure.

The minority population for both the State and County fall within 13 and 19 percent above 50 percent, respectively, qualifying them as minority communities according the CEQ guidance. Effects to populations would include beneficial impacts to the local economy, including the creation of temporary construction jobs and an increased revenue base for strengthening the Tribe's government and tribal services.

As discussed above, employees are anticipated to reside locally. The Proposed Project would therefore not displace residential populations in the vicinity of the Project Site. Employment opportunities related to construction would be available to qualified individuals, including qualified minorities, and would increase the overall local revenue base. Therefore, the Proposed Project would not result in disproportionately high and adverse environmental effects to minority or low-income communities, including the Tribe. There would be a beneficial impact due to the creation of construction jobs and related economic activity. This impact would be temporary and would dissipate upon the completion of construction. As discussed above, operation of the Proposed Project would provide the local employment market with up to 45 new job opportunities. These opportunities would be available to qualified Tribal and non-tribal members alike, including minorities. There would be a less-than-significant and beneficial impact.

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to socioeconomic conditions.

### 3.7 TRANSPORTATION NETWORKS

#### 3.7.1 AFFECTED ENVIRONMENT

##### Regulatory Setting

The regulatory setting for transportation networks is summarized in **Table 16** and further discussed in **Appendix A**.

##### Environmental Setting

The Property is located along Jersey Avenue between 17th and 18th Avenues in the northern portion of Kings County. Regional access to the Project Site is provided by State Route 41 (SR-41) and Jersey Avenue. Various roadways in the vicinity of the site provide local access. The roadway system in the vicinity of the Property is described below.

**TABLE 16: REGULATORY POLICIES AND PLANS RELATED TO TRANSPORTATION NETWORKS**

Regulation	Description
FEDERAL	
Federal Transportation Improvement Program	– Identifies a plan to allocate funding for long-term capital improvement projects
STATE AND LOCAL	
California Department of Transportation	– Establishes Caltrans as the managing agency over permitting and regulation of state roadways
County of Kings General Plan	– Identifies local goals and policies regarding traffic and circulation

- **SR-41** is classified as a Principal Arterial in the County General Plan. SR-41 is a two-lane road for 42 miles between the Kern County line and just south of the Hanford-Armona Road. There it becomes a four-lane expressway for about 6 miles to the Fresno County Line.
- **Jersey Avenue** is classified as a local street in the County General Plan. It is currently constructed as a two-lane undivided road, which provides access to SR-41, Casino, and tribal residences.
- **18th Avenue** is classified as a local street in the County General Plan. It is currently constructed as a two-lane undivided road.
- **17th Avenue** is classified as a local street in the County General Plan. It is currently constructed as a two-lane undivided road, which provides access to Casino.
- **16<sup>th</sup> Avenue** is classified as a local street in the County General Plan. It is currently constructed as a two-lane undivided road.
- **Jackson Avenue** is classified as a local street in the County General Plan. It is currently constructed as a two-lane undivided road.

The largest provider of public transit services within Kings County is the Kings County Area Public Transit Agency (KCAPTA). KCAPTA is an intra-governmental agency with representatives from Avenal, Kings County, Hanford, and Lemoore, and is responsible for the operation of the Kings Area Rural Transit (KART). KART offers scheduled daily bus service from Hanford to Armona, Lemoore, the Lemoore Naval Air Station, Visalia, Corcoran, Stratford, Kettleman City and Avenal.

### *Regional Transportation*

Kings County Association of Governments (KCAG) is the State-designated regional transportation planning agency (RTPA) recognized by the State's Business, Transportation, and Housing Agency. KCAG has developed the 2018 Regional Transportation Plan (RTP). The 2018 RTP, covering the period from 2018 to 2042, is a continuation of Kings County's transportation planning process, which began in 1975 with the adoption of its first RTP. The RTP is intended to serve many purposes including to provide the foundation for transportation decisions by local, regional, and state officials, document the region's mobility needs and issues, and set forth an action plan to address transportation issues and needs consistent with regional and state policies.

The largest provider of public transit services within the region is the Kings County Area Public Transit Agency (KCAPTA). KCAPTA is an intra-governmental agency with representatives from Avenal, Kings County, Hanford, and Lemoore, and is responsible for the operation of the Kings Area Rural Transit (KART). KART offers scheduled daily bus service from Hanford to Armona, Lemoore, the Lemoore Naval Air Station, Visalia, Corcoran, Stratford, Kettleman City and Avenal.

Ridership between Hanford and Lemoore is about 17,000 individuals per month. KART bus routes begin and end at the KART Terminal located at 504 W. 7th Street Hanford, just west of the Hanford AMTRAK station.

### *Existing Traffic Conditions*

The County utilizes the standardized level of service (LOS) system to measure traffic congestion. LOS is a scale that measures the amount of vehicular traffic that a roadway or intersection accommodates, based on such factors as maneuverability, driver dissatisfaction, and delay at intersections. Levels of service are represented by a letter scale that ranges from LOS A to LOS F. LOS A represents the fastest flow of traffic and LOS F represents significantly congested conditions. The County has adopted an overall LOS standard of D or better on all major roadways and arterial intersections in the County. Existing and projected LOS in the vicinity of the Property is shown in **Table 17**.

**TABLE 17: EXISTING AND FUTURE ROADWAY LOS**

Roadway Segment	Limits	Existing LOS	General Plan 2035 LOS
18 <sup>th</sup> Avenue	Jackson Avenue – Laurel Avenue	B	B
18 <sup>th</sup> Avenue	State Route 198 – Jackson Avenue	C	B
Jackson Avenue	18 <sup>th</sup> Avenue – State Route 43	B	C
Jackson Avenue	State Route 198 – 18 <sup>th</sup> Avenue	B	C
Source: County of Kings, 2010			

### 3.7.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

##### *Construction*

Construction of Alternative A would temporarily result in a negligible increase in traffic volume along Jersey Avenue. Vehicular trips from construction would consist of worker trips and deliveries of equipment and materials to and from the Project Site. The expected increase in traffic would occur weekdays between the hours of 7 am and 6 pm. The maximum estimated increase in trips along Jersey Avenue would be less than 80 one-way trips per day, based on the conservative approximation of 30 workers and 10 material delivery trips. Workers are expected to reside locally in nearby Hanford or Lemoore, or within the Kings County region. Roadways in the vicinity of the Property currently operate at an acceptable LOS, and the projected temporary increase in trips due to the construction of the Proposed Project would not cause a significant change to the roadway's level of service. There would be a less-than-significant impact.

##### *Operation*

Operational trip generation is based on the 10th Edition of the Trip Generation Manual, Institute of Transportation Engineers (ITE). Trip generation for the commercial center was estimated using Land Use 820 - Regional Shopping Center. Museum was not available as a land use type, therefore, trip generation associated with the Tribal Museum was approximated using Land Use 560 – Place of Worship, the closest available land use category. It is estimated that operation of the Proposed Project would generate approximately 636 trips per day. However, it is expected that a significant number of trips to the Proposed Project would be attributable to the existing Casino, given the rural nature of the Project Site and low background traffic levels. Therefore, the Proposed Project would generate substantially less than 636 per day.

As shown in **Table 17**, roadways in the vicinity of the Property currently operate at an acceptable LOS and are forecast to continue to operate acceptable under buildout of the County's 2035 General Plan. Alternative A would not result in a substantial increase in traffic, and would not cause a significant change to the roadway's level of service. As described in **Section 2.1**, the Proposed Project would necessitate the construction of two new access driveways on Jersey Avenue, therefore circulation issues are not anticipated to occur with addition of the Proposed Project. There would be a less-than-significant impact.

#### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to transportation networks.

## 3.8 LAND USE AND AGRICULTURE

### 3.8.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for land use is summarized in **Table 18** and further discussed in **Appendix A**.

**TABLE 18: REGULATORY POLICIES AND PLANS RELATED TO LAND USE**

Regulation	Description
FEDERAL	
Williamson Act	<ul style="list-style-type: none"> <li>- Allows private landowners to enter into a contract with local governments to preserve agricultural and open spaces in exchange for lower taxes</li> </ul>
STATE AND LOCAL	
County of Kings General Plan	<ul style="list-style-type: none"> <li>- Establishes land use designations for areas within the County</li> <li>- Dairy Element establishes standards to promote County dairy industry growth and protect public health and safety of the environment</li> </ul>
Kings County Development Code	<ul style="list-style-type: none"> <li>- Identifies parcel zoning designations</li> <li>- Determines uses that are allowed, conditionally allowed, or prohibited within zoning districts</li> </ul>

#### Environmental Setting

The Property is located in an unincorporated portion of Kings County, California, approximately 1.7 miles southeast of the City of Lemoore. The surrounding area includes commercial, residential, and agricultural development, including the Casino. The Casino has a land use designation of commercial/industrial. Other land uses on the Rancheria are dominated by the Tribe's housing, gas station, park space, and a medical office. The Property is zoned as Agricultural. The Property was previously under a Williamson Act contract (Kings County, 2013), however, the contract expired and the Tribe executed a Notice of Non-renewal. Therefore, the Property is currently not under a Williamson Act contract. Surrounding designated land uses and zoning include open space, isolated residential developments, agriculture, schools, and commercial land uses.

### 3.8.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

The Property is currently not in trust and is therefore subject to local, state, and federal land use jurisdiction. Development would not occur until after the land is taken into trust. After acquisition into trust, County land use and zoning designations would no longer apply. In general, commercial retail centers would not be consistent with the current zoning and land use designation. However, the development would be consistent with the immediately adjacent commercial development on the existing Rancheria, including the Casino. Additionally, approximately half the Property is already used for occasional Casino overflow parking and includes a sprung structure used for small events. Surrounding land use is largely agricultural or rural residential in nature. Alternative A would not preclude ongoing activities associated with surrounding land uses.

The soils on the Property are considered farmland of statewide importance. The Farmland Mapping and Monitoring Program (FMMP), within the California Department of Conservation (CDC), maps activity from

the USDA on a continuing basis. Projects are subject to FPPA requirements if they may irreversibly convert farmland to nonagricultural use. The NRCS is responsible for the implementation of the FPPA and categorizing farmland. The NRCS identifies significant farmland areas for preservation through a land evaluation and site assessment (LESA) system to establish a Farmland Conversion Impact Rating (FCIR) score.

The FCIR form has two components: land evaluation, which rates soil quality up to 100 points, and the site assessment, which measures other factors that affect the farm's viability, up to 160 points. The total FCIR score is used as an indicator for whether proposed development will result in adverse impacts to farmland resources.

A FCIR form draft has been completed for the Proposed Project and would be submitted by the Bureau of Indian Affairs to the USDA for completion prior to construction (**Appendix F**). The maximum possible FCIR score is 260 points. If the score is less than 160 points, no further evaluation is necessary under the FPPA. Based on a preliminary review of the Project Site, the FCIR score is not anticipated to exceed 160 points. Furthermore, the Property itself has not recently been used for agricultural production, so this development will not result in a shortfall of a particular agricultural resource in this area. In addition, the Proposed Project is relatively small-scale and will not develop the entire site. The remainder of the site that would not be impacted by Alternative A or the existing uses could be used for agricultural purposes. As discussed above, there currently are no agricultural uses on the Property. Existing uses are limited to Casino overflow parking and the existing sprung structure. Conversion of agricultural lands would not occur.

There would be a less-than-significant impact.

## Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to land use.

## 3.9 NOISE

### 3.9.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for noise is summarized in **Table 19** and further discussed in **Appendix A**.

#### Environmental Setting

The sound environment at the Property is dominated by traffic noise from local roadways. Sound is measured using A-weighted decibels (dBA), which de-emphasizes frequencies below 1,000 Hertz (Hz) and above 5,000 Hz. This method of frequency weighting is referred to as A-weighting. A 3 dBA increase is the smallest change in noise level detectable to the average individual, and a change in ambient sound of 5 dBA can begin to create concern. Widely distributed noises would typically attenuate at a lower rate, approximately 3 to 6 dBA per doubling distance from the source (Caltrans, 2013a). Noise from large construction sites would have characteristics of both "point" and "line" sources. Attenuation can range between 0 and 10 dBA per doubling of distance depending on environmental conditions.

**TABLE 19: REGULATORY POLICIES AND PLANS RELATED TO NOISE**

Regulation	Description
FEDERAL	
The U.S. Department of Housing and Urban Development	- Provides noise standards to encourage the control of noise at its source
The Federal Interagency Committee on Noise	- Establishes methods for assessing noise impacts
STATE AND LOCAL	
California Noise Insulation Standards	- Establishes noise limits for vehicles licensed to operate on public roads
County of Kings General Plan	- Identifies County goals and policies relating to allowable noise levels and noise-producing land uses

Peak particle velocity (PPV) is often used to measure vibration. PPV is the maximum instantaneous peak (inches per second) of the vibration signal. Continuous sources of vibration include construction, while transient sources include truck movements. Structural damage can occur when PPV values are 0.5 inches per second or greater. Annoyance can occur at levels as low as 0.24 inches per second and become strongly perceptible at approximately 0.9 inches per second (Caltrans, 2013b).

Ambient noise in the vicinity of the Property is influenced by through traffic along Jersey Avenue and traffic along the Casino access and Casino frontage roads. Surrounding areas are predominately agricultural. The existing Reservation is adjacent to the eastern boundary of the Property and contains tribal residential housing and the Casino. Vehicular traffic on Jersey Avenue contributes to noise levels in the area, with local stationary noise sources and distant California State Route 41 traffic to the west contributing to a much lesser extent. Sensitive receptors with the potential to be impacted by the construction of Alternative A include one residence approximately 200 feet north of the Property. Other sensitive receptors are over 1,000 feet away and include a residence to the southeast and the Central Union Preschool over 2,000 feet to the west of the Property.

Two 24-hour noise measurements were conducted using Quest Sound Pro SE/DL sound level meters at two locations around the Property on August 19, 2020, to characterize existing ambient noise conditions. An additional measurement was recorded on January 18, 2022. Monitoring locations are shown in **Figure 5** and measured noise levels of all recording periods and locations are provided in **Table 20**. An acoustical calibrator was used to calibrate the sound level meter before and after use. Instrumentation satisfies the Type II noise meter requirements as defined by International Standards such as IEC 61672-1:2013 and as listed by the manufacturer.

**TABLE 20: EXISTING NOISE LEVELS OF SURROUNDING AREA**

Site	Monitoring Length	Average L <sub>dn</sub> (Db)
S208	24-Hour	67.6
S292	24-Hour	71.8
S224	24-Hour	70.3



### 3.9.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

##### *Construction Noise*

**Table 21** shows PPV vibration levels caused by representative construction equipment, as published by the Federal Transit Administration.

**TABLE 21: VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT**

Equipment	PPV at 25 Feet (In/Sec)
Vibratory Roller	0.210
Large bulldozer	0.089
Caisson drilling	0.089
Loaded trucks	0.076
Jackhammer	0.035
Small bulldozer	0.003
Source: FTA, 2018	

**Table 22** shows the maximum noise levels of typical construction equipment at 50 feet. However, not all equipment listed may be used for construction. Stationary point sources of construction noise decrease at a rate between 0 and 10 dBA per doubling of distance from the source, depending on environmental conditions (Caltrans, 2013a).

Equation 7-7 from Caltrans' Technical Noise Supplement to the Traffic Analysis Protocol (Noise Supplement) was used to estimate noise levels at distances greater than 50 feet. A usage factor of 40 percent, averaged from the values provided in Table 7-2 of the Noise Supplement, along with a maximum noise level at 50 feet of 89 dB, was used in the following equation:

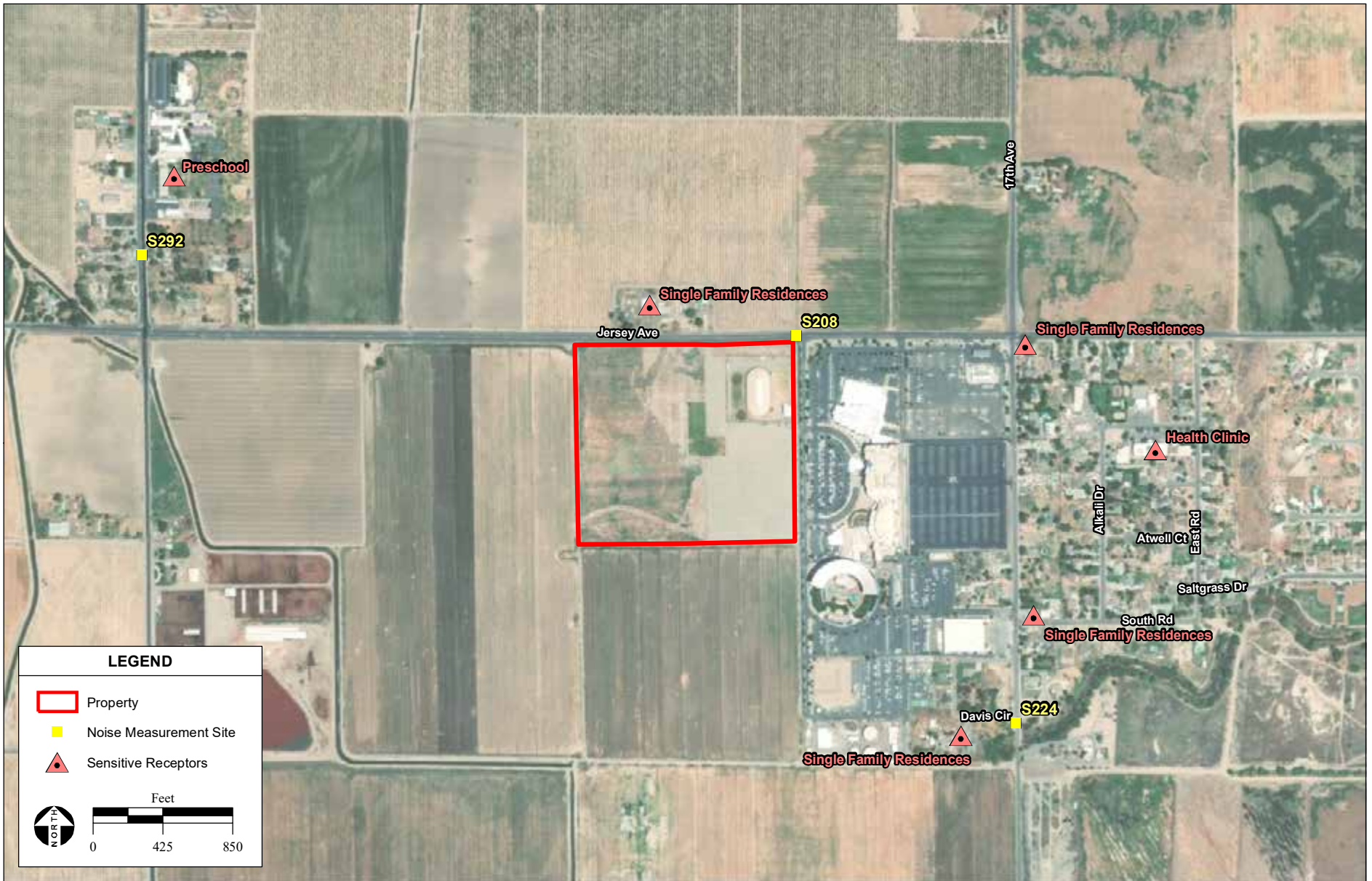
$$L_{eq}(h), \text{ dBA} = L_{max} \text{ at 50 feet} - 20\log(D/50) + 10\log(UF)$$

where  $L_{max}$  at 50 feet = 89 dB; D = Distance of interest; and UF = Usage factor/fraction of time equipment is in use.

Grading and construction activities associated with the Proposed Project would be intermittent and temporary in nature. Construction activities for the Proposed Project would generally consist of standard earthmoving equipment (**Table 22**).

**TABLE 22: STANDARD CONSTRUCTION EQUIPMENT NOISE**

Type of Equipment	Maximum Level, dB at 50 Feet
Backhoe	78
Compactor	83
Air Compressor	78
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85
Source: FHWA, 2006.	



SOURCE: Maxar/Vivid Aerial Photograph, 6/20/2021; Montrose Environmental, 3/8/2022

Tachi Yokut Commercial Center and Tribal Museum Project Environmental Assessment / 220503 ■

**Figure 5**  
Noise Monitoring Locations and Surrounding Sensitive Receptors

### Operational Noise

The primary source of noise in the area is generated by traffic. An increase of 3 dBA is the smallest change in noise level detectable to the average individual, and a change in ambient sound of 5 dBA can begin to create concern. Two 24-hour noise measurements were conducted on August 19, 2020, and one 24-hour noise measurement was taken on January 18, 2022, using Quest Sound Pro SE/DL sound level meters at the Property and its surroundings to characterize existing ambient noise conditions. As the ambient noise levels measured in proximity to the Project Site (**Figure 5, Table 20**) is greater than 65 decibels, the Federal Interagency Committee on Aviation Noise (FICON) indicates that an increase of 1.5 dBA as a result of Project operation would be considered a significant impact (FICON, 1992). Upon the analysis of existing traffic at the intersection of 18<sup>th</sup> Avenue and Jersey Avenue, it was determined that an approximate 50% increase in vehicle trips on Jersey Avenue would be necessary to cause a detectable increase in the ambient noise level (Caltrans, 2013a). Alternative A would result in an approximate increase of 25% in vehicle trips on local roadways. Therefore, no audible increase in the ambient noise level would occur. Alternative A would not increase the existing ambient noise level (66 dBA) beyond the FICON guideline. There would be a less-than-significant impact.

### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to noise levels.

## 3.10 PUBLIC SERVICES

### 3.10.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for public services is summarized in **Table 24** and further discussed in **Appendix A**.

#### Environmental Setting

Electricity to the region is provided by PG&E. Gas services are provided by Southern California Gas Company (SCGC, 2020). Mid Valley Disposal also provides refuse and recyclable collection for the Tribe, transferring waste to the Kingsburg Transfer Station approximately 22 miles northeast of the Property.

**TABLE 24: REGULATORY POLICIES AND PLANS RELATED TO PUBLIC SERVICES**

Regulation	Description
FEDERAL	
Assembly Bill 939	– Dictates the management of non-hazardous solid waste
STATE AND LOCAL	
County of Kings General Plan	– Identifies County plans and goals related to waste disposal and public utilities

Police protection is provided by the Kings County Sheriff's Department. The Kings County Fire Department (KCFD) and the California Department of Forestry and Fire Protection (CAL FIRE) provide primary fire protection and emergency medical services to the unincorporated areas of Kings County, including the Property. Medical Facilities include public and private clinics, care facilities, and medical offices. The nearest hospital services are located in Hanford, CA. Kings County Fire Department also serves as the Office of Emergency Management (OEM) for all of Kings County.

This emergency management agency is responsible for coordinating responses to complex, large-scale emergencies and disasters within Kings County (Kings County, 2022b).

### 3.10.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

##### *Water and Wastewater*

Water demand and wastewater generation associated with the commercial development and museum would increase under Alternative A when compared to existing conditions. Water demand would be low, and the existing groundwater well on-site would be sufficient to meet the demands of the Proposed Project. Alternative A would also connect to the Tribe's wastewater system for the Casino on adjacent trust land. As discussed in **Section 3.2.2**, wastewater production would be minimal, and the existing WWTP is sufficient to accommodate the Proposed Project. There would be a less-than-significant impact.

##### *Solid Waste*

Impacts associated with solid waste during construction would be temporary and less-than-significant. Solid waste and recycling from Alternative A would be contracted through the Mid Valley Disposal, which collects solid waste from areas spanning five counties. Solid waste generated by Alternative A would be comparable to the amount generated by similar-sized commercial developments in the surrounding area. Mid Valley Disposal transfers waste primarily to the Visalia Landfill and American Avenue Landfill. The most recent capacity report for the Visalia Landfill estimated that the landfill would reach capacity in 2024 (CalRecycle, 2014). However, according to the 2021 Landfill Tonnage Report, the Visalia Landfill only took in an average of 780.3 tons per day, which is approximately 39.0 percent of the landfill's permitted allowance of 2,000 tons per day (CalRecycle, 2021). The most recent capacity report for the American Avenue Landfill estimated that the landfill would reach capacity in 2031 (CalRecycle, 2005). According to the 2021 Landfill Tonnage Report, the American Avenue Landfill took in an average of 1,574.5 tons per day, which is approximately 75.6 percent of the landfill's permitted allowance of 2,200 tons per day (CalRecycle, 2021). Impacts to local landfills would not significantly increase and Alternative A would not exceed the capacity of landfills currently serving the area. There would be a less-than-significant impact.

##### *Electricity and Natural Gas*

Electrical infrastructure is currently already available on the Property through PG&E. Alternative A would utilize existing electrical services already available on-site and would not significantly increase electrical demands compared to regional electrical use supplied by PG&E. There is also the potential for natural gas services to be utilized under Alternative A. Natural gas services would be provided by Southern California Gas Company. While demands for natural gas would be low, should Southern California Gas Company determine that there is not capacity to serve the Property, Alternative A would rely solely on electricity. There would be a less-than-significant impact.

##### *Public Safety*

The Kings County Sheriff's Department provides police services to the unincorporated areas of Kings County, and KCFD and CAL FIRE provide primary fire protection and emergency medical services to the Property, Rancheria, and surrounding vicinity. Additionally, the Santa Rosa Rancheria Department of Public Safety offers public safety services for the Tribe through its Officers and Dispatchers.

Due to the relatively small scale of development, the Proposed Project would not result in a significant increase in demands associated with the police or fire departments.

Calls for service would not be disproportionately large when compared to other similar development around the County. The Project Site is not in an area classified as a Fire Hazard Severity Zone, and construction-related impacts would not be different from those of any other construction site around the County. Commercial center and museum structures would adhere to the equivalent of state building codes. Applicable fire protection features would be incorporated into the design of the Proposed Project. BMPs listed in **Section 2.1.4** would be implemented to reduce fire risk. There would therefore be a less-than-significant impact.

### *Emergency Medical Services*

The nearest medical facilities include clinics, care facilities, and medical offices present within the City of Lemoore. The nearest hospital services are located in Hanford. Hanford Community Medical Center and Central Valley General Hospital provide 24-hour emergency medical facilities. KCFD and CAL FIRE would conduct emergency medical transport. Because there are two emergency facilities in nearby Hanford, and new demands would be minimal, the increased demand for emergency medical services would not be significant. There would be a less-than-significant impact.

### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be no impact to public services.

## 3.11 HAZARDOUS MATERIALS

### 3.11.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for hazardous materials is summarized in **Table 25** and discussed in **Appendix A**.

**TABLE 25: REGULATORY POLICIES AND PLANS RELATED TO HAZARDOUS MATERIALS**

Regulation	Description
FEDERAL	
Resource Conservation and Recovery Act	– Dictates management of hazardous solid waste from creation to disposal
Toxic Substances Control Act	– Requires reporting, recordkeeping, testing requirements, and restrictions related to hazardous materials
Comprehensive Environmental Response, Compensation, and Liability Act	– Provides funds to clean up uncontrolled, closed, or abandoned hazardous waste sites
STATE AND LOCAL	
California Environmental Protection Agency	– Develops, implements, and enforces laws that regulate air, water, and soil quality, pesticide use, and waste recycling and reduction
California Code of Regulations, Title 22, Division 4.5	– Addresses off-Reservation environmental and public health standards for the management of hazardous waste
California Health and Safety Code, Division 20, Chapter 6.95	– Requires off-Reservation businesses to plan and prepare for a chemical emergency through the preparation of a Hazardous Materials Inventory and a Hazardous Materials Business Plan
Kings County General Plan	– Identifies areas designated for solid and hazardous waste disposal

## Environmental Setting

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, state, or local agency, or if it has characteristics defined as hazardous by such an agency. A site may be listed on a hazardous materials database and still be compliant with federal, state, and local laws. Many database listings are from appearances in a regulatory database and not in connection with a hazardous release. The USEPA and U.S. Department of Transportation are the principal agencies that regulate the generation, transportation, and disposal of hazardous materials.

The Property was assessed for potentially hazardous materials contamination on March 11, 2020 and January 18-19, 2022. The assessment included a site reconnaissance inspection and historical aerial imagery review to identify potential Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), or Historical Recognized Environmental Conditions (HRECs) on the Project Site. A Phase I was prepared for the Property and is included as **Appendix G**.

Regulatory agency database searches were conducted to identify sites that may have the potential to affect surface and subsurface conditions within the Property. Detailed findings and conclusions are provided in the Phase I Environmental Site Assessment (ESA) report (**Appendix G**). The Property was surveyed twice (in 2020 and 2022) to identify the release of any petroleum-based products or other RECs on site. No RECs, CRECs, or HRECs were identified on the Property, and the Property is not subject to engineering controls or land use restrictions related to hazardous materials involvement. Surrounding properties were reviewed and were found not to pose a threat to the environmental integrity of the Property.

### 3.11.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

Incidents associated with hazardous materials that could occur during construction include the accidental release of fuels, oil, and grease associated with the operation of construction equipment, as well as accidental releases associated with handling and transferring hazardous material-containing substances. Typical construction management practices limit the incidence of such accidental releases. In addition, the Clean Water Act requires that stormwater management BMPs be implemented during construction. BMPs in **Section 2.1.4** ensure that the potential for accidental releases of hazardous materials would be minimized and that impaired water would not flow offsite during a storm event. Small quantities of cleaning materials, solvents, pesticides, herbicides, fuels, and paints may be stored and used during the operation of the Proposed Project. These materials are common to most commercial operations and do not pose an unusual or substantial threat to public health and safety because of the relatively small quantities involved. Proper handling and storage of these materials would not result in significant adverse effects. There would be a less-than-significant impact.

#### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. Therefore, there would be a less-than-significant impact.

## 3.12 VISUAL RESOURCES

### 3.12.1 AFFECTED ENVIRONMENT

#### Regulatory Setting

The regulatory setting for visual resources is summarized in **Table 26** and further discussed in **Appendix A**.

**TABLE 26: REGULATORY POLICIES AND PLANS RELATED TO VISUAL RESOURCES**

Regulation	Description
FEDERAL	
National Scenic Byway Program	- Identifies scenic byways and acceptable development within associated viewsheds
STATE AND LOCAL	
State Scenic Highways	- Regulates development near highways designated as scenic
Kings County Zoning Ordinance	- The County's zoning code identifies acceptable land uses consistent with the existing aesthetic of the County
Kings County General Plan	- Identifies the County's plans and goals related to aesthetic resources

#### Environmental Setting

The Property parcels are zoned under Kings County Code as Agriculture and have a land use designation of AG20 (General Agriculture) in the Kings County General Plan. Surrounding lands are also zoned and designated for agricultural purposes, with the exception of the adjacent Rancheria, which is held in federal trust by the Tribe and is not subject to County zoning and land use designations. The Rancheria supports the existing Casino and residential housing. The visual character of the surrounding area is largely rural and agricultural in nature, with the exception of the Rancheria, which is immediately adjacent to the eastern boundary of the Property. Nighttime lighting in the immediate vicinity of the Property is generally limited to the Rancheria.

A vista is a visual corridor that is scenic in nature, pleasing to the public eye, and often interrupted to some extent by landscaping or buildings. A viewshed is comprised of one or more vistas. Scenic corridors and highways are major routes of travel that offer tourists scenic views. Major roadways that offer visuals of a property to passing motorists are the standard for assessing viewshed impacts. Duration of views is dependent on traffic conditions, vehicle speed, obstruction by buildings or landscaping, and direction of travel. Significant views of the Property are afforded by Jersey Avenue, which bounds the Property to the north and offers unobstructed views of the Project Site. The eastern boundary of the Property runs adjacent to the Casino frontage road, which provides an unobstructed view of the Property to patrons visiting the Casino. No other public roads bound the Property. There are limited or largely obstructed views over agricultural production lands east from 18<sup>th</sup> Avenue and north from Kent Avenue. Limited views of the Property are available from 17<sup>th</sup> Avenue, but are largely obstructed by existing development on the Rancheria. The posted speed limit of rural roads in the vicinity of the Property 55 miles per hour, except in areas of denser residential, where speed limits drop to as low as 25 miles per hour.

The nearest state designated scenic highway is State Route 198, which is designated as a scenic highway 21.6 miles east of the Project Site (east of Interstate 99) and 26.6 miles west of the Project Site (west of Interstate 5) (Caltrans, 2022). There are seven federally-designated scenic byways in the state of California, none of which are in the vicinity of the Project Site (FHWA, 2022).



The County's General Plan identifies visual resources along State Routes 41 and 33. These roadways are not in the vicinity of the Property and do not offer views of the Project Site. The General Plan also considers general visual character of significant viewsheds in the County, such as waterways, the foothills, coastal range, and valley oak woodlands (Kings County, 2010). Viewsheds of the Property are shown within **Figure 6**, and site photos are provided in **Figure 7**.

### 3.12.2 ENVIRONMENTAL CONSEQUENCES

#### Alternative A

Impacts related to visual resources would be considered significant if the Proposed Project were to substantially alter or interrupt locally important scenic vistas, introduce visual elements that would conflict with the County's community design, or create sources of inappropriate or excessive glare or nighttime illumination. As discussed above, there are no state or federal scenic highways or byways that offer views of the Project Site. Additionally, the Project Site is not within an area designated as a scenic vista, or viewable from a scenic roadway as determined by the County's General Plan. Therefore, these resources would not be impacted.

The overall viewshed of the vicinity is a mixture of agriculture and development. Agricultural activities within the viewshed include row crops and dairy production. Development within the viewshed is largely limited to the existing Casino and residences. Views of the Project Site are generally limited to motorists passing along Jersey Avenue. Views of the Proposed Project would be immediately adjacent to existing development and therefore would not interrupt the nearby agricultural vistas. Given that the Proposed Project would develop the area immediately adjacent to the existing Casino and the Property is already disturbed, the viewsheds surrounding the Project Site would not be significantly altered.

As discussed in **Section 2.1.4**, project BMPs include design features that would ensure outdoor lighting will be limited to downcast/shielded lights that would not overspill the Property. Exterior lighting would generally not be necessary on site except to provide illumination of the access drive and parking lot, or similar lighting for safety purposes. This would not create excessive glare or significant nighttime illumination. The lighting and landscaping of Alternative A would be consistent with nearby development. Structures would be single story and would not exceed the height of nearby development. Additionally, BMPs discussed in **Section 2.1.4** would be incorporated in Project design to further reduce visual impacts. There would be a less-than-significant impact.

#### Alternative B

Under the No Action Alternative, additional land would not be placed into trust for the benefit of the Tribe and the Property would remain in its current state. There would be a less-than-significant impact.



SOURCE: Vivid Maxar Aerial Photograph, 4/4/2021;  
Montrose Environmental, 1/25/2022

Tachi Yokut Commercial Center and Tribal Museum Project Environmental Assessment / 220503 ■

**Figure 6**  
Viewsheds for the Alvarado Property



**PHOTO 1:** View of the Project Site from the western boundary of the Property facing east.



**PHOTO 2:** Representative photo of the Project Site looking south from Jersey Avenue.



**PHOTO 3:** Representative photo of the Project Site.

### 3.13 CUMULATIVE AND GROWTH-INDUCING EFFECTS

#### 3.13.1 CUMULATIVE EFFECTS

Cumulative impacts are defined as the effects “on the environment which result from the incremental effect of the action when added to other past, present, and reasonably foreseeable future actions” (40 CRF Sec. 1508.7). The purpose of cumulative analysis is to ensure that incremental consequences of the Proposed Project are evaluated and acknowledged. Projects in the area of the Project Site have been considered for the cumulative impact analysis and are described below.

1. The City of Lemoore has implemented a Water Treatment Plants Project to address elevated levels of total trihalomethane in the City’s drinking water. Two water treatments plants at Well Sites 7 and 11 are being installed to meet California drinking water standards. The project commenced in November 2019 (City of Lemoore, 2019). An Initial Study/Mitigated Negative Declaration associated with this project determined that, although the proposed project could have a significant effect on the environment, there will not be a significant impact with mitigation, and therefore a Mitigated Negative Declaration was prepared.
2. The Lacey Ranch Area Master Plan Project is a residential community development project to build 825 housing units across 156-acres of agriculture land north of the City of Lemoore. The community will be a mix use of single-family and multi-family units. An Initial Study was prepared for the project that determined an Environmental Impact Report (EIR) was necessary (Crawford & Bowen, 2020). An EIR has not yet been completed. Development could result in the construction of over 800 residential units. Phase I planning is anticipated to begin in 2022.
3. Lennar Homes Tract 848 is a planned residential subdivision on the corner of Bush Avenue and College Avenue with a total of 362 single-family homes across approximately 54.1 acres.  
The community will be a mix of Neighborhood Commercial, Public Recreation, Low, Low-Medium, and Medium land uses. The project requires a General Plan Amendment, Major Site Plan Review, Planned Unit Development, and Zone Change (Quad Knopf, 2020). An Initial Study/Mitigated Negative Declaration associated with this project has been adopted.
4. The Tribe intends to develop an RV park to the immediate south of the Property. The RV park would be accessible through the Property but is not a part of the Proposed Project. An EA will be prepared to evaluate environmental impacts associated with development on land to the south of the Property. This cumulative analysis considers the development of this project.

Additionally, BMPs listed in **Section 2.1.4** and mitigation measures listed in **Section 4.0** would reduce impacts on an individual level that could foreseeably contribute to future incremental effects. Alternative B, as the No Action alternative, would not result in foreseeable impacts to the environment and therefore would not generate cumulative impacts. Therefore, only Alternative A is discussed below.

#### Land Resources

The Project Site is relatively level and development would not significantly alter the topography of the region. Principal effects to land resources associated with future development in the vicinity of the Project Site would consist of localized topographical changes, contained areas of potential soil erosion, and limited potential water quality impacts.

Cumulatively considered projects are within areas that are relatively flat and are anticipated to pose minimal threat to land resources. Local permitting requirements for construction would address regional geotechnical, seismic, or mining hazards. It is anticipated that other approved projects would follow

appropriate permitting procedures and regulatory requirements; therefore, Alternative A would not result in cumulatively considerable adverse effects to land resources.

## Water Resources

Implementation of the Proposed Project would result in low water demand. Alternative A would utilize the existing on-site well, which would be sufficient to meet the needs of the Proposed Project, and would not significantly affect groundwater levels. Existing water and wastewater infrastructure owned by the Tribe would serve both the Proposed Project as well as the anticipated development on the Tribe's neighboring property (development number 4 described above). The neighboring development would reduce water demand compared to existing agricultural use. As the existing water infrastructure is sufficient for the Proposed Project and the adjacent development would be a reduction compared to existing use, infrastructure would be sufficient for cumulative use. Protective measures and BMPs discussed in **Section 2.1.4** include water conservation measures that would be incorporated into project design to further reduce water consumption. As the Proposed Project would not result in impacts to regional groundwater levels, there would be no cumulative impacts related to groundwater levels.

Wastewater would be conveyed to the adjacent Casino's existing WWTP on the Tribe's trust land. Wastewater production would be minimal and the WWTP has the capacity to treat the increase in volume. The anticipated development on the Tribe's neighboring property would similarly utilize the Casino's existing WWTP. As discussed in **Section 3.2**, the Casino's WWTP currently has an excess capacity of approximately 336,100 gpd with sufficient drying beds to accommodate the balance of the excess capacity. The Proposed Project combined with the anticipated neighboring development would be well within this excess capacity.

The Proposed Project and other foreseeable projects that may be constructed in the vicinity would be required to comply with the CWA as it relates to stormwater and point-source discharges. Compliance with USEPA and/or State stormwater pollution prevention requirements will prevent off-site development, in combination with the Proposed Project, from resulting in cumulatively significant impacts associated with water resources. Through local jurisdictional approval, cumulative development would similarly be required to incorporate water reduction measures to reduce water use as well as stormwater drainage features to avoid downstream or groundwater impacts. Therefore, impacts associated with water resources would not be cumulatively significant.

## Air Quality and Climate Change

Past, present, and future development projects contribute to a region's air quality conditions on a cumulative basis; therefore, by its very nature, air pollution is largely a cumulative impact. If a project's individual emissions contribute toward exceedance of the NAAQS, then the project's cumulative impact on air quality would be significant. In developing attainment designations for criteria pollutants, the EPA considers the region's past, present, and future emission levels. Additionally, as shown in **Table 27**, combined operational emissions of criteria pollutants from Alternative A and the anticipated development on the Tribe's adjacent property (identified as cumulative project 4 above) would be considerably less than *de minimis* levels for Alternative A.

**TABLE 27: UNMITIGATED OPERATIONAL EMISSIONS - CUMULATIVE**

Source Category	Pollutants of Concern (Tons Per Year)					
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Alternative A	0.40	0.48	2.26	0.00	0.44	0.12
Proposed RV Park Project	1.56	1.14	7.18	0.02	1.32	0.55
<b>Cumulative Total</b>	<b>1.96</b>	<b>1.62</b>	<b>9.44</b>	<b>0.02</b>	<b>1.76</b>	<b>0.67</b>
<i>De Minimis level</i> <sup>2</sup>	10	10	N/A	N/A	N/A	70
<b>Exceeds Thresholds</b>	<b>No</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>No</b>
N/A = not applicable; unclassified threshold Source: CalEEMod 2020.4.0; USEPA, 2016; AES, 2022. See Appendix C for full results.						

### Climate Change

**Table 28** shows unmitigated construction and operational GHG emissions of Alternative A in 2030. Carbon dioxide (CO<sub>2</sub>) is the most prevalent GHG and, as discussed in **Section 3.3**, is used as a measurement standard (CO<sub>2</sub>e).

**TABLE 28: UNMITIGATED OPERATIONAL GHG EMISSIONS IN 2030**

Emissions Category	GHG Emissions (Mt/Year)
Construction <sup>1</sup>	10.87
Operations	
Area	0.00
Energy	41.22
Mobile <sup>2</sup>	391.38
Waste	36.59
Water	3.04
<b>Total Emissions</b> <sup>3</sup>	<b>483.11</b>
Service Population (SP) <sup>4</sup>	212
<b>Emissions per SP</b> <sup>5</sup>	<b>2.28</b>
KCAG SP Operation Threshold	2.42
<b>Exceeds Thresholds</b>	<b>No</b>
MT = metric tons; N/A = not applicable <sup>1</sup> 326 MT amortized over 30 years <sup>2</sup> To provide a conservative analysis, mobile emissions were not adjusted to reflect the trip reductions discussed in <b>Section 3.7</b> . <sup>3</sup> MT CO <sub>2</sub> e/yr <sup>4</sup> Service population was estimated based on the total trip generation divided by three, to account for in and out trips by patrons and employees. <sup>5</sup> Total emissions per service person in MT CO <sub>2</sub> e/SP/yr. Sources: CalEEMod 2020.4.0; SCAQMD, 2008; KCAG, 2014. <b>Appendix C</b>	

Emissions were quantified using CalEEMod 2020.4.0. Construction emissions were amortized over a period of 30 years, the average Project operational life, based on South Coast Air Quality Management District (SCAQMD) guidance and common practice (SCAQMD, 2008). While there is no federally established GHG emissions threshold, for informational purposes, emissions were compared with the KCAG regional GHG emissions threshold for 2030—adjusted for SB 32 as noted above—of 533,870 MT CO<sub>2</sub>e or 2.42 MT CO<sub>2</sub>e/SP/year. Unmitigated construction and operational GHG emissions of Alternative A are shown in **Table 28**.

Service population of each alternative is based on the total trip generation discussed in **Section 3.7** and includes employees and transitory customers or visitors, who produce the majority of operational emissions due to mobile sources. As shown in the **Table 28**, Alternative A would not generate per service population annual emissions greater than the KCAG emissions threshold. Therefore, Alternative A would not have a cumulatively significant impact on climate change. Nonetheless, BMPs listed in **Section 2.1.4** would further reduce potential impacts associated with climate change, and Alternative A would promote mixed-use development in Kings County, in line with the goals of SB 743.

## Living Resources

The Property consists of ruderal/disturbed and developed habitat, which is not considered sensitive. No wetlands were identified on-site. Therefore, the Proposed Project would not contribute to cumulative impacts to sensitive habitats. No special-status species were observed during the biological survey, and the Project Site does not contain habitat suitable to support special-status species, with the exception of low-quality foraging habitat for Swainson's hawk and tri-colored blackbird.

Although there is the potential for birds to nest on and near the Property, mitigation identified in **Section 4.1** would avoid impacts to nesting birds, thus the Proposed Project would not contribute to cumulative impacts as it relates to special-status species.

Projects in the cumulative environment would result in similar or greater impacts to biological resources via land use conversion and construction, and the County would require other projects to comply with federal, State, and local regulations and ordinances to reduce cumulative impacts to biological resources to less-than-significant levels. Other projects on non-tribal land would be required to implement similar site-specific mitigation in accordance with the California Environmental Quality Act (CEQA). BMPs incorporated into project construction and design (**Section 2.1**) as well as mitigation measures (**Section 4.1**) will reduce impacts to biological resources to a less-than-significant level. As the Proposed project would avoid impacts to biological resources, cumulative impacts would not occur. Therefore, the Proposed Project would not result in cumulatively considerable impacts to biological resources.

## Cultural Resources

No historic properties (i.e. resources eligible for listing on the NRHP) have been identified that would be affected by selection of any Proposed Project Alternative. However, cultural or paleontological resources may be discovered during construction. Identification, evaluation, and protection measures for these resources have been included in **Section 4.2** to reduce adverse effects to cultural or paleontological resources to a less-than-significant level. As other regional projects would be subject to similar regulatory requirements, implementation of project-specific mitigation would similarly reduce construction impacts to a less-than-significant level. Therefore, there would be no cumulatively considerable adverse effects to cultural or paleontological resources as a result of Alternative A.

## Socioeconomic Conditions

The Proposed Project would not result in significant regional population growth or subsequent increases in housing demand. Employment opportunities during construction would be temporary and is anticipated to be filled by the local workforce. Similarly, operation of Alternative A would require a minimal number of staff that is anticipated to be filled by the local workforce. This would provide an insignificant amount of employment opportunities within an area considered a minority community, and would therefore provide a less-than-significant and beneficial impact to minority communities.

Cumulative development projects would introduce a significant amount of housing in the region. Development of new residential communities have been considered within General or Specific Plans, and the mixed-use nature of the development would balance increase in housing with increase in local employment opportunities. Planning documents for the region would continue to designate land uses for businesses, industry, and housing, as well as plan public services that would anticipate and accommodate growth. Given the comparatively low employment demand of the Proposed Project and regional planned development documents, Alternative A would not contribute to a significant cumulative impact to socioeconomic conditions.

## Transportation Networks

As described above, all roadways in the vicinity of the Property are forecasted to continue to operate acceptable under buildout of the County's 2035 General Plan. The Proposed Project, in combination with the anticipated development on the Tribe's adjacent property (identified as cumulative project 4 above), would not result in a substantial increase in traffic, and would not cause a significant change to the roadway's level of service.

Additionally, the cumulatively considerable projects in the vicinity of the Property are not expected to result in increases in traffic on Jersey Avenue, which will serve as the primary access road for the Property. Therefore, the Proposed Project would not result in indirect or cumulative growth impacts that would facilitate additional traffic. There would be a less-than-significant impact.

## Land Use and Agriculture

If acquired into trust, the Property would not be subject to local jurisdictions regarding land uses. Cumulatively considerable projects, however, would be subject to local land use regulations. While the Proposed Project would not involve agricultural operations consistent with the site's agricultural zoning and land use designations, it is noted that existing activities on the site include commercial development, and the site is immediately adjacent to the existing Casino. Therefore, Alternative A would continue the commercial development present on site and would be consistent with adjacent development. Additionally, Alternative A would not preclude ongoing use of agricultural activities in the vicinity of the Project Site. Therefore, Alternative A would have a less-than-significant cumulative impact as it relates to land use.

## Noise

Approved projects in the County would be required to comply with applicable noise regulations during construction and operation. Construction of the Proposed Project would be temporary over the span of less than a year and limited to daylight hours and would therefore not generate a cumulative impact to the noise environment. As the Proposed Project and the anticipated development on the Tribe's adjacent property (identified as cumulative project 4 above), would not result in population growth, traffic volumes, and therefore traffic-related noise, would not be increased by the projects. Operational noise



would be limited to the operation of a retail center, tribal museum, RV park, orchard, and stock pond. These activities do not generate noise beyond acceptable levels. Additionally, the nearest sensitive receptor is at least 200 feet from the project sites and would not be significantly impacted by the project. Therefore, with the implementation of BMPs outlined in **Section 2.1.4**, Alternative A would not result in cumulatively considerable impacts to the ambient noise environment.

## Public Services

Public services for the Proposed Project would be accommodated by existing and planned public services. The potential increase in demands on services would be minimal compared to existing public services. As development of the Lacey Ranch and Lennar Homes residential developments, and other future projects in the area continues, the combined need for public services may result in cumulatively considerable impacts. However, future land uses in the region would be subject to approval by local governments and would include provisions associated with public services. The Proposed Project would not increase the local population, and does not include elements that would generate a disproportionate need for public services. As a result, Alternative A would not result in significant cumulative impacts to public services.

## Hazardous Materials

Foreseeable projects in the vicinity of the Proposed Project would be required to comply with federal, state, and local regulations concerning hazardous materials. Use of hazardous materials during construction would be temporary and limited to standard construction materials that do not pose a significant threat when handled properly. Operational use of hazardous materials would be limited to common landscaping and maintenance substances, such as fertilizers and paint.

These would be maintained on site in limited quantities and would not generate the potential for a cumulatively considerable impact. With the implementation of BMPs outlined in **Section 2.1.4**, no cumulatively considerable adverse impacts related to hazardous materials would occur as a result of Alternative A.

## Visual Resources

Through local jurisdictional approval, cumulative development would be consistent with local land use regulations. The Project Site is not visible from scenic roadways and is not within an identified scenic vista. Views of the Project Site are generally limited to motorists passing along Jersey Avenue. These views include existing commercial development on the Property and on the immediately adjacent Reservation. The Casino obstructs views of the Project Site to the east of the Property. Cumulatively considered projects are not within view of the Project Site and would therefore not contribute to cumulative impacts to a viewshed. Therefore, Alternative A in combination with other development projects would not significantly alter scenic resources or the visual setting, interrupt or substantially alter local views, or create sources of glare or excessive nighttime illumination. With the implementation of BMPs regarding lighting outlined in **Section 2.1.4**, implementation of Alternative A would not result in cumulatively considerable effects to visual resources.

### 3.13.2 INDIRECT AND GROWTH-INDUCING EFFECTS

Under NEPA, indirect and growth-inducing effects of a Proposed Project must be analyzed (40 CFR §1508.8[b]). CEQ Regulations define indirect effects as effects that are caused by the action and are later in time or further removed in distance, but are still reasonably foreseeable. Growth-inducing effects are defined as effects that foster economic or population growth, either directly or indirectly. Direct growth

inducement could result, for example, if a project included the construction of a new residential development.

Indirect growth inducement could result if a project established substantial new permanent employment opportunities (e.g., new commercial, industrial, or governmental enterprises) or if it removed obstacles to population growth.

### Indirect Effects

Indirect effects may include changes in land use, population density, and related effects on natural systems (40 CRF Sec. 1508.8). Implementation of Alternative A would require minor onsite roadway improvements, such as access drives and paved parking lots. Water and wastewater would be provided by an existing on-site groundwater well, and wastewater would be treated by the Casino's WWTP. Therefore, indirect effects would not occur associated with these utilities. Off-site construction is not anticipated to occur aside from the portion of the access driveway along the shoulder of Jersey Avenue. Other off-site activities are not anticipated, however, should off-site utility hookups occur, work would be minimal and limited to the Tribe's trust land. This would not generate an indirect impact and would be limited to work along a roadside shoulder. Substantial regional amounts of new impervious surfaces would not occur, thus no significant change to the regional drainage conditions would occur. There would be no change in offsite land use and no change in population density. No significant adverse indirect effects relevant to any environmental issue area would occur.

### Growth-Inducing Effects

Growth inducement may constitute an adverse impact if the increased growth is not consistent with or accommodated by the land use and growth management plans and policies for the area affected. Local land use plans provide for development patterns and growth policies that allow for orderly development supported by adequate public services and utilities such as water supply, roadway infrastructure, sewer services, and solid waste disposal services. A minimal level of long-term or permanent employment opportunities for the Tribe or members of the community would be created from Alternative A, but not to a significant degree. Employees are anticipated to reside locally. As such, no new housing, schools, or other facilities would be constructed as a result of the Proposed Project. No significant, unmitigable impacts have been identified that would result from the Proposed Project. The Proposed Project would not require the construction of off-site utilities or project components that would induce or otherwise facilitate growth. Growth-inducing impacts would therefore be less-than-significant for Alternative A.

# SECTION 4.0

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## MITIGATION MEASURES

Mitigation consists of “avoiding the impact altogether by not taking a certain action or parts of an action; minimizing impacts by limiting the degree or magnitude of the action and its implementation; rectifying the impact by repairing, rehabilitating, or restoring the affected environment; reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; [or] compensating for the impact by replacing or providing substitute resources or environments...” (40 CFR 1508.20). As Alternative B is the No Action alternative and would not result in environmental impacts, mitigation measures presented below are applicable only to Alternative A. Mitigation is enforceable because it is inherent to the project design, required by federal law, or required by a binding agreement with the appropriate agency.

### 4.1 LIVING RESOURCES

Implementation of the following mitigation measures are recommended for Alternative A to reduce the potential for significant impacts to living resources.

- Should construction activities occur during the general nesting season (February 15 to September 15), a preconstruction nesting bird survey shall be conducted no more than 5 days prior to the start of construction. Areas within 500 feet of construction shall be surveyed for active nests.
- Should no active nests be identified, construction may commence. Should an active nest be identified, an avoidance buffer shall be established by a qualified biologist based on the needs of the species. Avoidance buffers shall be established via high-visibility fencing of flagging prior to construction and shall remain in place until the end of the general nesting season or upon determination by a qualified biologist that young have fledged or the nest has failed.
- Should ground disturbance commence during the nesting season later than 14 days from the survey date, an additional preconstruction survey shall be conducted prior to reinitiating work to ensure birds have not established nests during inactivity.

### 4.2 CULTURAL RESOURCES

Implementation of the following mitigation measures will reduce the potential for adverse effects on previously unknown cultural resources uncovered during construction of Alternative A.

- Archaeological indicators include unusual amounts of bone, stone, or shell, locally darkened midden soils, fire-affected rocks, and/or unusual amounts of charcoal, fragments of glass, ceramic and metal objects; milled and split lumber; and structural and feature remnants such as building foundations, privy pits, wells, irrigation ditches, and refuse dumps; and old trails.
- If resources are identified during construction, work shall halt within 50 feet of the find. The Tribe and the BIA shall be notified of the discovery and a qualified professional archeologist (or paleontologist, as appropriate) or Tribal cultural monitor shall be retained to evaluate the find and recommend appropriate measures in consultation with the Tribe and BIA.
- Construction activities shall not resume until mitigation measures have been approved and completed, as appropriate.
- Should the find be paleontological in nature, construction shall halt within 50 feet of the find, and a qualified paleontologist or Registered Geologist shall be retained to evaluate the find,

recommend appropriate mitigation or recovery, and document the results in accordance with current professional standards.

- If suspected human remains are encountered, work shall halt within 100 feet of the find and the County Coroner shall be notified immediately. At the same time, the Tribe, the BIA, and a qualified archaeologist shall be contacted to evaluate the find. If human remains are determined to be of Native American origin, the provisions of Native American Graves Protection and Repatriation Act would apply. Construction activities shall not resume within 100 feet of the find until the Tribe and BIA approve and implement a strategy for the appropriate disposition of the remains.

# SECTION 5.0

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Kelli Raymond	<b>Education:</b> B.S. Animal Biology, University of California, Davis Ms. Raymond is a biologist who specializes in CEQA/NEPA compliance and environmental analysis. Ms. Raymond is also an experienced field biologist throughout California.
Charlane Gross	<b>Education:</b> B.A., Anthropology; M.A, Anthropology, University of California, Berkeley With over 30 years of management, field, and research experience on a wide variety of projects, Ms. Gross is well versed in all aspects of historic-era and prehistoric resource investigations and the requirements of the National Environmental Policy Act NEPA and Section 106 of the National Historic Preservation Act.
Dana Hirschberg	Mr. Hirschberg is a senior graphic designer with over 16 years of experience with geographic Information systems, graphic presentation software including Microsoft, Adobe CS, AutoCAD, ESRI ArcView and database design.
Alexandria Fraser	<b>Education:</b> Bachelor of Planning, Master of Planning, University of Auckland, New Zealand. Ms. Fraser has a background in urban planning, and has multiple years of experience and training with graphics and GIS systems. She regularly completes graphics-related work to support both large and small scale environmental reports (including biological, cultural and archaeological), and site plan graphics.
Jedidiah Dowell	<b>Education:</b> B.S., Environmental Biology, Minor, Geospatial Analysis, Humboldt State University Mr. Dowell is a field biologist, arborist, and writer for environmental studies and environmental policy documents, including NEPA documents for local agencies, tribal, and private clients.
Marcus Barrango	<b>Education:</b> B.S., Environmental Policy Analysis and Planning, University of California, Davis Mr. Barrango is an environmental analyst with a background in NEPA/CEQA compliance, specializing in air quality, climate change, energy, transportation, and noise analysis.
Amy Gondran	<b>Education:</b> B.S., Wildlife and Fisheries Sciences, Texas A&M University, College Station; M.S., Forestry, Virginia Tech, Blacksburg Ms. Gondran is a biologist and skilled writer for scientific research, natural resource, and environmental policy documents, including NEPA documents for a variety of stakeholders.

# **APPENDIX A**

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APPLICABLE FEDERAL, STATE,  
AND LOCAL LAWS AND REGULATIONS

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## APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS

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## 1.0 INTRODUCTION

Federal, state, and local laws and regulations relevant to Alternatives A and B are included below. As discussed in the Environmental Assessment, state and local laws and regulations apply to the Property prior to acquisition into trust, but are generally not applicable to land in trust.

## 2.0 LAND RESOURCES

### 2.1 FEDERAL

#### National Earthquake Hazards Reduction Program

The Earthquake Hazards Reduction Act of 1977 (Public Law 95-124, 42 United States Code 7701 et. seq.), as amended in 2004 (Public Laws 101-614, 105-47, 106-503, and 108-360), established the National Earthquake Hazards Reduction Program. This program was designed to develop measures for earthquake hazards reduction and improve the understanding of earthquakes and effects.

### 2.2 STATE AND LOCAL

#### Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act (formerly the Alquist-Priolo Special Studies Zone Act), signed into law December 1972, requires the delineation of zones along active and potentially active faults in California. The California Geological Survey (CGS) defines an “active” fault as one that exhibits evidence of activity during the last 11,000 years. Faults that exhibit evidence of quaternary activity are considered to be “potentially active.” The purpose of the Alquist-Priolo Act is to regulate development on or near fault traces to reduce the hazard of fault rupture and limit the location of structures in these areas.

#### Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act was enacted in 1991 to protect the public from the effects of strong ground shaking, liquefaction, landslides, ground failure, or other hazards caused by earthquakes. This act requires a state geologist to delineate various seismic hazard zones and requires cities, counties, and other local permitting agencies to regulate certain development projects within the portions of these zones over which they have jurisdiction. Before a development permit is granted by a city, county, or other local permitting agency for a site within a seismic hazard zone, a geotechnical investigation of the site must be conducted and appropriate mitigation measures must be incorporated into the project’s design.

#### Kings County General Plan

The Health and Safety Element of the County’s General Plan identifies land use hazards within the County. According to this element, soil hazards, including expansive soils, liquefaction, and erosion are unlikely and limited in spatial extent. Landslide risks are considered to be low to moderate, with moderate risks limited generally to areas within the County where land slopes exceed 15 percent. Earthquake risk levels are occasional, but it is noted that the spatial extent of a seismic event could be significant. The likelihood of such an event was considered to be low as there are no known major fault systems in the County. The General Plan policies state that new development should be reviewed to determine if a geotechnical soils report is necessary and to ensure that seismic hazards are considered.



## **3.0 WATER RESOURCES**

### **3.1 FEDERAL**

#### **Clean Water Act**

The Clean Water Act (CWA; 33 USC §1251-1376), as amended by the Water Quality Act of 1987, is the major federal legislation governing water quality. The objective of the CWA is “to restore and maintain the chemical, physical, and biological integrity of the Nation’s waters.” The United States Environmental Protection Agency (USEPA) is delegated as the administrative agency under the CWA. Relevant sections of the CWA include Sections 303 and 304, Section 401, Section 402, and Section 404.

#### **CWA Anti-Degradation Policy**

Federal policy (Code of Federal Regulations [CFR], Title 40, Part 131.6) specifies that each state must develop, adopt, and retain an anti-degradation policy to protect the minimum level of surface water quality necessary to support existing uses. Each anti-degradation policy must include implementation methods consistent with provisions outlined in 40 CFR §131.12. On trust land, such issues are addressed by the USEPA.

#### **Safe Drinking Water Act**

Minimum national drinking water standards and guidelines for groundwater protection are established through the 1974 Safe Drinking Water Act (amended in 1986 and 1996). Contaminants of concern relevant to domestic water supply are defined as those that pose a public health threat or that alter the aesthetic acceptability of water. The USEPA regulates contaminants through the development of national primary and secondary Maximum Contaminant Levels for drinking water.

#### **Disaster Relief Act**

The Disaster Relief Act of 1974 resulted in the development of the Federal Emergency Management Agency (FEMA), which is responsible for determining flood elevations and floodplain boundaries based on U.S. Army Corps of Engineers (USACE) studies. FEMA is also responsible for distributing Flood Insurance Rate Maps, which are used in the National Flood Insurance Program. These maps identify the locations of special flood hazard areas, including 100-year floodplains. FEMA allows non-residential development in a floodplain; however, construction is restricted within flood hazard areas, depending on the potential for flooding.

#### **NPDES Permitting Program**

Facilities discharging pollutants from point-sources into waters of the United States must obtain a discharge permit under the National Pollutant Discharge Elimination System (NPDES) program. To ensure compliance with the CWA anti-degradation policy, the USEPA must consider the status of regional water quality before issuing an individual facility NPDES permit for discharge into impaired waterways. After reviewing an application for an individual facility permit, the permitting authority will issue a permit with specific effluent limits, or Waste Discharge Requirements (WDRs). Construction projects disturbing one or more acres of soil must be covered under the NPDES general permitting process. For Tribal projects on trust land, the Tribe proposing the project must apply for coverage under the USEPA’s Stormwater General NPDES Permit for Construction Activities. The USEPA’s Stormwater General NPDES Permit for Construction Activities also requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP must list Best Management Practices that address stormwater runoff rates and water quality.

## 3.2 STATE AND LOCAL

### Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Division 7 of the California Water Code [Water Code]) provides the basis for surface water and groundwater quality regulation within California. This act established the authority of the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCBs). The Porter Cologne Act (§13242) requires that a Total Maximum Daily Limit program of implementation be developed in the Regional Water Quality Control Plans for water bodies listed under Section 303 of the CWA that describes how water quality objectives will be attained.

### RWQCB's Anti-degradation Policy

The Porter-Cologne Act requires the State to designate beneficial uses of surface water and groundwater, and to specify water quality objectives designed to protect those uses. These water quality objectives are presented in the Regional Water Quality Control Plans (basin plans). Basin plans are developed and periodically reviewed to fulfill the State's requirements of the anti-degradation policy of the CWA. Each basin plan provides a technical basis for determining WDRs and regulatory enforcement action.

### California Water Code

The California Water Code designates the California Department of Public Health (CDPH) as the lead agency responsible for regulating treatment of wastewater, water conservation, and state powers during times of water shortages. The California Water Code also provides supplementary regulation on stormwater discharge.

### Sustainable Groundwater Management Act

The intent of the Sustainable Groundwater Management Act ([SGMA]; Water Code § 10720 et seq.) is to "enhance local management of groundwater consistent with rights to use or store groundwater... [and] to preserve the security of water rights in the state to the greatest extent possible consistent with the sustainable management of groundwater." The SGMA states that "any local agency or combination of local agencies overlying a groundwater basin may elect to be a groundwater sustainability agency for that basin."

### Kings County General Plan

The Open Space Element of the General Plan states that natural open spaces include natural watershed terrain such as waterways, vernal pools, and riparian habitat. Natural aquatic habitat is additionally considered a valuable scenic and recreational resource. Goals and policies within the General Plan are designed to preserve natural watersheds and utilize natural flood management features of the landscape. Additionally, the Resource Conservation element identifies significant aquatic resources in the County and outlines goals and policies for preserving and maintaining the County's natural aquatic resources.

### Kings County Municipal Code

Chapter 14 of the Kings County Municipal Code is related to health and welfare of occupants within the unincorporated County and sets potable water and wastewater standards. Chapter 14A specifically addresses the construction and use of water wells, including permitting and general well standards.

## 4.0 AIR QUALITY AND CLIMATE CHANGE

### 4.1 FEDERAL

#### Federal Clean Air Act

The Federal Clean Air Act (CAA) was enacted to protect and enhance the quality of the nation’s air resources. In 1971, the USEPA developed primary and secondary National Ambient Air Quality Standards (NAAQS). Six criteria air pollutants (CAPs) of concern were designated: carbon monoxide (CO), ozone (O3), sulfur dioxide (SO2), nitrous oxides (NOX), lead (Pb), and suspended particulate matter (PM). PM is designated into two size classes, coarse particulate matter 10 micrometers or less in diameter (PM10) and fine particulate matter 2.5 micrometers or less in diameter (PM2.5). **Table 1** shows applicable USEPA standards.

#### Federal Attainment Status

The USEPA classifies areas in compliance with the National Ambient Air Quality Standards (NAAQS) as being in "attainment". Areas that do not meet the NAAQS are classified as being in "non-attainment" by the USEPA. If the air quality within a region is determined by the USEPA to be non-attainment, the region is further classified as a marginal, moderate, serious, severe, or extreme non-attainment area. Areas designated as marginal must implement a permit program and conduct an inventory of CAP-producing emissions. The more severe classifications also require implementation of control measures. For ozone, control measures must be implemented to reduce emissions of the ozone-producing precursors nitrous oxides (NO<sub>x</sub>) and reactive organic gases (ROGs, or volatile organic compounds [VOCs]).

**TABLE 1: NAAQS PRIMARY STANDARDS AND ASSOCIATED VIOLATION CRITERIA**

Pollutant	Symbol	Averaging Time	NAAQS	Violation Criteria
Ozone	O <sub>3</sub>	8 hours	0.070 ppm	If exceeded on more than 3 days in 3 years
Carbon monoxide	CO	1 hour	35 ppm	If exceeded on more than 1 day per year
		8 hours	9 ppm	If exceeded on more than 1 day per year
Nitrogen dioxide	NO <sub>2</sub>	Annual average	0.053 ppm	If exceeded on average per year
		1 hour, averaged over 3 years	0.1 ppm	If 98 <sup>th</sup> percentile of maximum exceeded
Sulfur dioxide	SO <sub>2</sub>	3 hours	0.5 ppm	If exceeded on more than 1 day in 3 years
		1 hour, averaged over 3 yrs.	.075 ppm	If 98 <sup>th</sup> percentile of maximum exceeded
Inhalable PM	PM <sub>10</sub>	24 hours, averaged over 3 yrs.	150 g/m <sup>3</sup>	If exceeded on more than 1 day per year
Fine PM	PM <sub>2.5</sub>	Annual arithmetic mean, averaged over 3 yrs.	12 g/m <sup>3</sup>	If exceeded on more than 1 day per year
		24 hours, averaged over 3 yrs.	35 g/m <sup>3</sup>	If 98 <sup>th</sup> percentile of maximum exceeded
Lead particles	Pb	Calendar quarter	1.5 g/m <sup>3</sup>	If exceeded on one or more days per year

SOURCE: USEPA, 2016a.  
 NOTES: ppm = parts per million; g/m<sup>3</sup> = micrograms per cubic meter

#### Federal General Conformity

The General Conformity Rule of the CAA implements Section 176(c) and establishes minimum thresholds for volatile organic compounds (VOCs), ozone precursors, CO, and other regulated constituents for non-attainment and maintenance areas. A Conformity Determination is required for each pollutant where a total of direct and indirect emissions in a non-attainment or maintenance area caused by the federal action are greater than de minimis thresholds.

The thresholds provide guidance for federal agencies to assure that they comply with approved State Implementation Plans (SIPs). There are two phases to general conformity:

- 1) The Conformity Review process entails a review of each analyzed alternative to assess whether a full conformity determination is necessary; and
- 2) The Conformity Determination process, which demonstrates how an action would conform to the applicable implementation plan (usually the SIP).

The first step compares emissions estimates for the project to the appropriate general conformity de minimis threshold based on a non-attainment type. If the emission estimates from step one are below the thresholds, then a General Conformity Determination is not necessary and step two is not required. The regulations apply to a proposed federal action that would cause emissions of criteria air pollutants (CAPs) above certain levels to occur in locations designated as non-attainment or maintenance areas for the emitted pollutants. If a federal action occurs in a location designated as attainment or unclassified, the General Conformity regulation does not apply to the project.

### Federal Hazardous Air Pollutant Program

In addition to CAPs, the CAA requires the USEPA to regulate hazardous air pollutants (HAPs). The USEPA maintains a list of over 180 airborne chemicals that are recognized as HAPs. Title III of the CAA requires the USEPA to promulgate National Emissions Standards for Hazardous Air Pollutants (NESHAP). The NESHAP may differ between major sources and area sources of hazardous air pollutants (HAPs). Major sources are defined as stationary sources with potential to emit more than 10 tons per year (tpy) of any HAP or more than 25 tpy of any combination of HAPs; all other sources are considered area sources.

### Federal Clean Air Act and Indian Tribes

The CAA authorizes USEPA to issue regulations specifying the provisions of the CAA for which tribes may be treated in the same manner as states. For those provisions specified, a tribe may develop and implement one or more of its own air quality programs under the Act. The USEPA issued its final rule in 1998, which grants tribes with USEPA-approved CAA programs authority over all air resources within the exterior boundaries of a reservation. No such program exists for the Enterprise Rancheria Tribe, and thus the USEPA retains authority for sources of air pollution on the Property (USEPA, 2020).

### Federal Class I Areas

Title 1, Part C of the CAA was established, in part to preserve and enhance air quality in national parks and wilderness areas. The CAA designates all international parks, national wilderness areas, and memorial parks larger than 5,000 acres, and national parks larger than 6,000 acres as “Class I areas.” Major sources of emissions within 100 kilometers (km) from a federal Class I area must conduct a pre-construction review of air quality impacts. A “major source” for the PSD program is defined as a facility that will emit (from direct stationary sources) 250 tons per year of regulated pollutant.

### Tribal New Source Review

A Tribal new source review (NSR) permit is required prior to construction in both attainment and nonattainment areas if the projected aggregate operational emissions from stationary sources at the proposed facility exceed the minor NSR thresholds listed in **Table 2**. NSR programs must comply with the standards and control strategies of the Tribal Implementation Plan (TIP) or SIP. If there is not an applicable SIP or TIP, the USEPA issues permits and implements the program.

If applicable, the Tribe would apply for and obtain a site-specific or, if promulgated prior to the start of construction, a general minor NSR permit in accordance with USEPA guidelines and Tribal NSR regulations.

**TABLE 2: TRIBAL MINOR NEW SOURCE REVIEW THRESHOLDS**

Pollutant	Emissions Thresholds For Nonattainment Areas (Tpy)	Emissions Thresholds For Attainment Areas (Tpy)
NO <sub>x</sub>	5.0	10
ROGs	2.0	5.0
PM	5.0	10
PM <sub>10</sub>	1.0	5.0
PM <sub>2.5</sub>	0.6	3.0
CO	5.0	10
SO <sub>2</sub>	5.0	10
Pb	0.1	0.1
SOURCE: 40 CFR 49.153		

**National Environmental Policy Act**

The National Environmental Policy Act (NEPA) directs federal agencies to assess the potential environmental impacts of their proposed major actions significantly affecting the human environment and inform the public about those potential impacts. The Council on Environmental Quality (CEQ) was established as part of NEPA to coordinate federal environmental efforts. On February 19, 2021, pursuant to federal Executive Order (EO) 13990, *Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis*, the Council on Environmental Quality (CEQ) rescinded its 2019 *Draft National Environmental Policy Act (NEPA) Guidance on Consideration of Greenhouse Gas Emissions* and is reviewing, for revision and update, the 2016 *Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews*. In the interim, EO 13990 directs agencies to consider all available tools and resources in assessing GHG emissions and climate change effects of their proposed actions, including the 2016 GHG Guidance.

To assess impacts, the 2016 GHG Guidance states that federal agencies should quantify direct and indirect emissions of the project alternatives with the level of effort being proportionate to the scale of the emissions relevant to the NEPA review. The CEQ guidance advises federal lead agencies to consider the following:

1. The potential effects of a proposed action on climate change as indicated by assessing GHG emissions.
2. The effects of climate change on a proposed action and its environmental impacts.

This guidance does not propose a specific, quantitative threshold of significance; however, it states that agencies should consider the potential for mitigation measures to reduce or mitigate GHG emissions and climate change effects when those measures are reasonable and consistent with achieving the purpose and need for the proposed action. Examples of mitigation provided for in the guidance include, but are not limited to, enhanced energy efficiency design, lower GHG-emitting technology, carbon capture, carbon sequestration (e.g., restoration of forest, agricultural soils, and coastal habitat), and compensation.

Additionally, on February 19, 2021, Secretary of the Interior Deb Haaland issued Secretarial Order (SO) 3399 to prioritize action on climate change throughout the Department and to restore transparency and integrity in the Department’s decision-making processes. SO 3399 specifies that when considering the impact of GHG emissions from a proposed action, Bureaus/Offices should use appropriate tools, methodologies, and resources available to quantify GHG emissions and compare GHG quantities across alternatives. SO 3399 acknowledges that identifying the interactions between climate change and the environmental impacts of a proposed action in NEPA documents can help decision makers identify opportunities to reduce GHG emissions, improve environmental outcomes, and contribute to protecting communities from the climate crisis.

## 4.2 STATE AND LOCAL

### California Clean Air Act

In 1988, the State legislature adopted the California Clean Air Act (CCAA), which established a statewide air pollution control program. CCAA requirements include annual emission reductions, development and use of low emission vehicles, establishment of the California Ambient Air Quality Standards (CAAQS), and submittal of air quality attainment plans by air districts for incorporation into the California SIP. The California Air Resource Board (CARB) is the state agency responsible for coordinating state and federal air pollution control programs in California. CARB designated CAAQS for the six federal CAPs and four additional pollutants. CARB also allocated 15 individual air basins within the state by grouping similar geographic or political areas together that exhibit similar air quality conditions.

### California SIP

California’s SIP is comprised of overall air quality attainment plans to meet the NAAQS as well as the individual air quality attainment plans of each air quality management district (AQMD) and air pollution control district (APCD). AQMDs and APCDs, as well other agencies such as the Bureau of Automotive Repair, prepare draft California SIP elements and submit them to CARB for review and approval. The CCAA identifies CARB as the lead agency for compiling items for incorporation into the California SIP and submitting them to the USEPA.

### San Joaquin Valley Air Pollution Control District

According to the San Joaquin Valley Air Pollution Control District’s mission statement, “The San Joaquin Valley Air District is a public health agency whose mission is to improve the health and quality of life for all Valley residents through efficient, effective and entrepreneurial air quality management strategies. Our Core Values have been designed to ensure that our mission is accomplished through commonsense, feasible measures that are based on sound science.” The air districts values include pollution control, protection of public health, efficient use of public funds, and public outreach and education.

### Regional Climate Action Plan, Kings County

According to the Regional Climate Action Plan, “the Regional Climate Action Plan (CAP) is a long-range policy document that identifies cost-effective measures to reduce greenhouse gas (GHG) emissions from activities within Kings County consistent with California State Assembly Bill (AB) 32.” The plan identifies baseline and projected GHG levels and sets reduction targets. GHG reduction measures target energy consumption, transportation GHGs, solid waste management, and management of trees and other vegetation. The plan includes implementation and monitoring measures as well.

## County of Kings General Plan

Air quality is discussed mainly within the air quality element of the General Plan. According to monitoring summarized in the general plan, air quality metrics have generally improved over time. However, the general plan lists several pollutants as non-attainment. The general plan goals include thorough monitoring of air quality to guide implementing policies. Existing measures include utilizing air quality data for informing land use designations, attaining limits set in the GHG Emissions Reduction Plan, identifying sensitive receptors, and conforming to dust control BMPs.

## State Legislation

### *Assembly Bill 1493 (AB 1493)*

AB 1493 of 2002 requires CARB to develop and adopt the nation's first GHG emission standards for automobiles. These standards are also known as Pavley I. Subsequent improvements to these standards covered model years 2012 to 2016 and resulted in 30 percent GHG reductions by 2016. The most recent standards establish a range of annual GHG reductions for 2017 to 2025 model year light-duty vehicles of 3 to 6 percent per year.

### *Executive Orders*

The following summarizes the relevant Executive Orders (EO) related to climate change:

- EO S-3-05 – This EO established GHG reduction targets of; the year 2000 GHG levels by 2010; year 1990 GHG levels by 2020; and 80 percent below 1990 levels by 2050. EO S-3-05 created a “Climate Action Team” (CAT) headed by the California Environmental Protection Agency and including several other state agencies. The CAT is mandated by EO S-3-05 to outline the effects of climate change on California and recommend an adaptation plan. The CAT is also mandated with creating a strategy to meet the emission reduction target required by the EO. In April 2006 the CAT published an initial report that accomplished these two tasks. The 2010 CAT Report to the Governor and Legislature was issued December 2010, discussing progress and supplemental recommendations, and further legislation (described below) codified EO-S-05's goals.
- EO S-01-07 – This EO mandates a statewide goal to reduce the carbon intensity of transportation fuels by at least 10% by 2020. This target reduction was identified by CARB as one of the AB 32 early action measures.
- EO B-30-15 – This EO was signed by the Governor on April 29, 2015, and established a state GHG reduction target of 40 percent below 1990 levels by 2030. This intermediate GHG emissions reduction target would make it possible to meet the ultimate GHG emissions reduction target of 80 percent below 1990 levels by 2050 as established in EO S-3-05.
- EO B-55-18 – Signed on September 10, 2018, B-55-18 directs the state as a whole to achieve carbon neutrality by 2045 and net negative emissions thereafter. The order does not specify the means by which carbon neutrality must be met. The order also calls on the California Air Resources Board to work with state agencies to ensure future Scoping Plans meet the new carbon neutrality goal.

### *California Global Warming Solutions Act of 2006 (Assembly Bill 32 [AB 32])*

AB 32 codifies a key requirement of EO S-3-05, specifically the requirement to reduce statewide GHG emissions to 1990 levels by 2020. AB 32 mandates CARB with monitoring state sources of GHGs and designing emission reduction measures to comply with the law's emission reduction requirements. AB 32 also states that the CAT should coordinate overall state climate policy.

AB 32 required that CARB prepare a comprehensive “scoping plan” every five years that identifies all strategies necessary to achieve the required 2020 emissions reductions. In early December 2008, CARB released its scoping plan to the public, which was approved by CARB on December 12, 2008. The scoping plan relies on existing technologies and improving energy efficiency to achieve the 30 percent reduction in GHG emission levels by 2020.

The most recent update to the Scoping Plan was released in November 2017 and outlines statewide strategies to meet the 2030 SB 32 goal of reducing emissions 40 percent from 2020 levels. The State Scoping Plan was initially approved in December 2008 and updated in 2014 and 2017. In each update, the Scoping Plan outlined progress California had made to date regarding near-term 2020 GHG limits. The 2017 State Scoping Plan also incorporated guidance for achieving the State’s 2030 GHG reduction goals (CARB, 2017). The draft Scoping Plan also identifies several climate change mitigation policies.

### *Senate Bills*

The following summarizes the various Senate Bills (SB) related to climate change:

- SB 97 - In August 2007, SB 97 was adopted to recognize the need to address climate change under the California Environmental Quality Act (CEQA). Particularly, it recognized the need to address cumulative contribution of emissions for a development project. It also required that lead agencies make a good-faith effort to calculate and describe GHG emissions potentially resulting from a project. Following SB 97, the California Air Pollution Control Officers Association (CAPCOA) provided guidance on integrating analysis of climate change in its 2008 white paper CEQA & Climate Change (CAPCOA, 2008).
- SB 375 - SB 375 directed CARB to develop regional GHG emission reduction targets for metropolitan planning organizations (MPOs). MPOs are required to align regional transportation, housing, and land use plans and prepare Sustainable Communities Strategies (SCS) to reduce vehicular travel and GHG emissions. CARB determines whether the SCS will achieve the region’s GHG emissions reduction goals.
- SB 605 – This SB requires CARB to complete a comprehensive strategy to reduce emissions of short-lived climate pollutants in the State no later than January 1, 2016. The final strategy released by CARB in March 2017 focuses on CH<sub>4</sub>, black carbon, and fluorinated gases, particularly HFCs, as important short-lived climate pollutants. The final strategy recognizes emission reduction efforts implemented under AB 32 (e.g., refrigerant management programs) and other regulatory programs (e.g., in-use diesel engines, solid waste diversion). Measures identified in the final strategy and the expected emission reductions will feed into the update of the CARB Scoping Plan.
- SB 350 - Senate Bill 350 codifies the GHG targets for 2030 set by EO B-30-15. To meet these goals, SB 350 also raises the California Renewables Portfolio Standard (RPS) from 33 percent renewable generation by 2020 to 50 percent renewable generation by December 31, 2030.
- SB 32 - Signed in 2016, SB 32 further strengthens AB 32 with goals of reducing GHG emissions to 40 percent below 1990 levels by 2030. Based on GHG emissions inventory data compiled by CARB through 2017 and the emission limit of 431 million MT of CO<sub>2</sub>e established in the IPCC Fourth Assessment Report, California emission reduction goals for near-term 2020 will be met by abiding by the California Climate Change Scoping Plan.
- SB 743 - SB 743 changes how public agencies must evaluate transportation impacts of projects under CEQA. As required under SB 743, the Governor's Office of Planning and Research (OPR) developed potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled (VMT), VMT per capita, automobile trip generation rates, or automobile trips generated.



### *Title 20 Appliance Efficiency Regulations*

California's Appliance Efficiency Regulations, California Code of Regulations Title 20, contain standards for both federally regulated appliances and non-federally regulated appliances. The regulations are updated regularly to allow consideration of new energy efficiency technologies and methods. The current standards were adopted by the California Energy Commission in 2018. The standards outlined in the regulations apply to appliances that are sold or offered for sale in California. More than 23 different categories of appliances are regulated, including refrigerators, freezers, water heaters, washing machines, dryers, air conditioners, pool equipment, and plumbing fittings.

### *California Green Building Standards Code (CALGreen)*

Title 24 Building Standards Code, Part 11 of the California Code of Regulations is referred to as the California Green Building Standards Code (CALGreen Code). The purpose of the CALGreen Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a 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 air quality.

## **5.0 LIVING RESOURCES**

### 5.1 FEDERAL

#### **Federal Endangered Species Act**

Provisions of the Federal Endangered Species Act of 1973 (FESA), as amended (16 U.S. Code [USC] 1531), protect federally-listed threatened and endangered wildlife and their habitat (50 CFR §17.11, 17.12). Additionally, the U.S. Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NMFS) implement Section 10(a)(1)(b) of FESA, which allows non-federal entities under consultation with the USFWS and NMFS to obtain incidental take permits for federally listed fish and wildlife. Compliance with Section 10(a)(1)(b) is not required for federally listed plants. Critical habitat is defined under FESA as specific geographic areas within a listed species range that contain features considered essential for the conservation of the listed species. Designated critical habitat for a given species supports habitat determined by USFWS to be important for the recovery of the species. Under FESA, habitat loss is considered to be an impact to a species.

#### **Migratory Bird Treaty Act**

Most bird species are protected under federal and state regulations, especially those that are breeding, migratory, or of limited distribution. Under the Migratory Bird Treaty Act of 1918 (16 USC §703-711), federally-listed migratory bird species (50 CFR §10.13) and their nests and eggs are protected from injury or death, and project-related disturbances during the nesting cycle must be minimized.

#### **Bald and Golden Eagle Protection Act**

The Bald and Golden Eagle Protection Act was originally enacted in 1940 to protect bald eagles and was later amended to include golden eagles (16 USC Subsection 668-668). This act prohibits take, possession, and commerce of bald and golden eagles and associated parts, feathers, nests, or eggs with limited exceptions. The definition of take is the same as the definition under FESA. In 2007, the bald eagle was federally delisted under FESA, however provisions of this act remain in place.

## Clean Water Act Section 404 - Wetlands and Other Waters of the U.S.

Projects that involve discharge of dredged or fill material in navigable Waters of the U.S. must first obtain authorization from the USACE under Section 404 of the Clean Water Act (CWA). Projects requiring a 404 permit under the CWA also require a Section 401 certification from either the USEPA for trust land, or the RWQCB for non-trust land.

## 5.2 STATE AND LOCAL

### California Endangered Species Act

The California Endangered Species Act is similar to FESA, but is limited to species under state jurisdiction listed by the state as threatened or endangered. Off-Reservation take is prohibited under Section 2080 of the California Fish and Game Code. Under Section 2081, California Department of Fish and Wildlife (CDFW) can authorize take if an incidental take permit is issued by the Secretary of the Interior or Commerce in compliance with FESA for jointly listed species, or if the director of CDFW issues a permit and impacts are minimized and mitigated for State listed species.

### California Department of Fish and Game Code

California Fish and Game Codes § 3503, 3503.5, and 3800 prohibit the possession, incidental take, or needless destruction of birds, their nests, and eggs. California Fish and Game Code §3511 lists birds or other species that are “fully protected” and may not be taken or possessed except under specific permit. California Fish and Game Code Section 1602 requires notification before beginning activities that effect rivers, streams, or lakes. California Fish and Game Code Section 1602 applies to perennial, intermittent, and ephemeral rivers, streams, and lakes in the state of California.

### Kings County General Plan

The Land Use, Resource Conservation, and Open Space elements of the Kings County General Plan are designed to consider the natural resources available in the County and to direct organized development such that significant biological resources are preserved. The Resource Conservation Element “addresses the conservation of water, agricultural land, soils, habitats, species, fishing, minerals, archaeological-cultural-historic resources; and solid waste management,” and informs anticipated development and land use designations. Similarly, the purpose of the Open Space Element “is to promote the preservation of natural and other open space land which contributes to the economy, general welfare, and quality of life of the residents of Kings County.” As part of the General Plan, a Biological Resources Survey was completed and included as Appendix C of the General Plan.

## 6.0 CULTURAL RESOURCES

### 6.1 FEDERAL

#### National Historic Preservation Act

Section 106 of the National Historic Preservation Act (NHPA), as amended, and its implementing regulations found in 36 CFR Part 800, require federal agencies to identify cultural resources that may be affected by actions involving federal lands, funds, or permitting. The BIA must comply with Section 106 for proposed trust acquisitions. The significance of the resources must be evaluated using established criteria outlined in 36 CFR 60.4. If a resource is determined to be a historic property, Section 106 of the NHPA requires that effects of the federal undertaking on the resource be determined and describes specific criteria for determining whether a project would adversely affect a historic property, as defined in 36 CFR 800.5.

An impact is considered adverse when prehistoric or historic archaeological sites, structures, or objects that are listed on or eligible for listing, in the National Register of Historic Places (NRHP) are subjected to the following:

- Physical destruction of or damage to all or part of the property;
- Alteration of a property;
- Removal of the property from its historic location;
- Change of the character of the property's use or of physical features within the property's setting that contribute to its historic significance;
- Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features;
- Neglect of a property that causes its deterioration; or
- Transfer, lease, or sale of the property out of federal control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.

If the historic property will be adversely affected by the undertaking, then prudent and feasible measures to resolve adverse impacts must be taken. The State Historic Preservation Office (SHPO) must be provided an opportunity to review and comment on these measures prior to project implementation.

### National Register of Historic Places

The NHPA authorizes the Secretary of the Interior to maintain and expand a National Register of districts, sites, buildings, structures, and objects of significance in American history, architecture, archaeology, engineering, and culture. A property may be eligible for listing in the NRHP if it meets criteria for evaluation as defined in 36 CFR 60.4. This criteria identifies properties that:

- A. Are associated with events that have made a significant contribution to the broad patterns of history;
- B. Are associated with the lives of persons significant in the past;
- C. Embody the distinctive characteristics of a type, period 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. Have yielded, or may be likely to yield, information important in prehistory or history.

Additionally, the SHPO advocates that all historical resources over 45 years old be recorded for inclusion in the SHPO filing system, although professional judgment is urged in determining whether a resource warrants documentation. Sites younger than 50 years, unless of exceptional importance, are not eligible for listing in the NRHP. In addition to meeting at least one of the criteria outlined above, the property must also retain enough integrity to enable it to convey its historic significance. The National Register recognizes seven aspects or qualities that, in various combinations, define integrity. These seven elements of integrity are location, design, setting, materials, workmanship, feeling, and association. To retain integrity, a property will possess several, and usually most, of these aspects.

### Native American Graves Protection and Repatriation Act

The act, 25 USC 3001 et seq., provides a process for museums and federal agencies to return Native American cultural items (human remains, funerary objects, sacred objects, or objects of cultural patrimony) to lineal descendants and culturally affiliated Indian tribes and Native Hawaiian organizations.

The act includes provisions for unclaimed and culturally unidentifiable Native American items, intentional and inadvertent discovery of Native American items on Federal and Tribal land, and penalties for noncompliance and illegal trafficking.

### **Paleontological Resources Preservation Act**

The Paleontological Resources Preservation subtitle of the Omnibus Public Land Management Act, 16 U.S.C. 470aaa to aaa-11 requires the U.S. Department of Agriculture and the U.S. Department of the Interior to issue implementation regulations to provide for the preservation, management, and protection of paleontological resources on Federal lands, and to ensure that these resources are available for current and future generations to enjoy as part of America's national heritage. Paleontological resources are defined as the traces or remains of prehistoric plants and animals.

## **6.2 STATE AND LOCAL**

### **California Public Resources Code Sections 5020.1, 5024.1, and 21083.2**

PRC 5020.1 and 5024.1 defines historical resources, establishes the California Register of Historical Resources, and identifies characterizes of a site or object that qualifies it for listing and protection on the California Register of Historical Resources. Section 21083.2 identifies archaeological resources and requires a lead agency to determine whether a proposed action has the potential to significantly impact an archaeological resource. Impacts must be avoided, minimized, and/or mitigated.

### **California Health and Safety Code Section 7050.5**

Health and Safety Code Section 7050.5 prohibits the intentional disturbance or removal of human remains. This code additionally provides the appropriate protocol for unintentional discovery of human remains, for example, during otherwise lawful development activities. Lawful action requires that excavation and disturbance of the site cease until the area coroner is contacted to handle identification and/or removal of the remains. Further excavation at the site would be halted until resolution occurs.

### **Assembly Bill 52**

For projects subject to the California Environmental Quality Act, Assembly Bill 52 requires that consultation with regional Native American Tribes be initiated for projects that might impact a cultural resource of the environment. In addition to consultation the Tribes may also be provided with notices of public comment periods for projects with the potential to impact Tribal cultural resources. Potential impacts are required to be analyzed in the appropriate environmental report with the necessary impact avoidance, minimization, and mitigation measures included for Tribal review.

### **Kings County General Plan**

The Archaeological, Cultural, and Historic Resources section of the County's General Plan Resource Conservation Element identifies resources within the County including archaeological and architectural sites and fossil localities. The National Register of Historic Places lists four sites within Kings County, and three additional sites that have been designated as California Historical Landmarks. Sites include a Taoist Temple, County Courthouse, Carnegie Library, and the Witt archaeological site. The three California Historical Landmarks include the Kingston Town Site north of Hardwick, the El Adobe de los Robles Rancho west of Lemoore, and the Mussel Slough Tragedy site south of Hardwick. Thirteen other historic sites of local importance also exist. These include several cemeteries and churches located in Corcoran, Lemoore, Grangeville, and other rural areas in the northern County. Other notable sites include the original site of Lemoore, the Avenal Ranch, Kettleman Hills fossil beds, and First High School on the Kings River.

## **7.0 SOCIOECONOMIC CONDITIONS**

### **7.1 FEDERAL**

#### **Executive Order 12898**

Projects involving a federal action must comply with Executive Order (EO) 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which directs federal agencies to take the appropriate and necessary steps to identify and address disproportionately high and adverse effects of federal projects on the health or environment of minority, low-income, and Native American populations to the extent practicable and permitted by law. The USEPA's Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses, April 1998 (Final Guidance) was written to assist the EPA in developing NEPA compliance documentation to address the effects of environmental impacts on low income and minority populations.

### **7.2 STATE AND LOCAL**

#### **Regional Housing Allocation Plan**

California State law specifies a process for determining each local jurisdiction's fair share of regional housing needs, called the Regional Housing Needs Allocation Plan (RHNA). The California Department of Housing and Community Development assigns each regional council of governments a necessary number of new housing units for that region, including affordable housing. Each local government in California is required to adopt a Housing Element as part of its General Plan that shows how the community plans to meet the existing and projected housing needs of people at all income levels.

#### **Kings County General Plan**

The Kings County General Plan includes a Housing Element that applies to unincorporated areas of the County, as well as the cities of Avenal, Corcoran, Hanford, and Lemoore. The Housing Element considers demographics, anticipated growth, overcrowding and vacancy rates, and employment trends. The Housing Element satisfies the RHNA requirement for the unincorporated area of Kings County. The Kings County General Plan also contains a Land Use element that identifies land use patterns consistent with anticipated regional growth.

## **8.0 TRANSPORTATION NETWORKS**

### **8.1 FEDERAL**

#### **Federal Transportation Improvement Program**

The Federal Transportation Improvement Program (FTIP) is a plan for the implementation of the long-range Regional Transportation Plan. The FTIP presents manageable components to federal funding agencies for the funding of long-term plans and establishes a systematic approach to programming capital improvement projects over a five-year term, and is subject to continual modifications.

### **8.2 STATE AND LOCAL**

#### **California Department of Transportation**

Caltrans manages interregional transportation, including the management and construction of the California highway system. Caltrans is also responsible for the permitting and regulation of state roadways. Area surrounding the Property are located in Caltrans District 6, which includes the totality of Fresno, Kings, Tualre, Kern, and Madera Counties.

## County of Kings General Plan

The Circulation Element of the County’s General Plan deals with the safety and efficiency of people and goods travelling within and through the County. A Level of Service (LOS) of A through C is generally considered acceptable. An LOS of D or below is generally considered unacceptable. At the time of the adoption of the general plan, there were no roadways analyzed with an unacceptable LOS. Plan goals include increasing public transit, installing traffic-calming infrastructure improvements such as roundabouts, and promoting vanpooling, biking, and walking. Additionally, the County seeks to maintain acceptable LOS throughout the County.

## 9.0 LAND USE AND AGRICULTURE

### 9.1 FEDERAL

#### Williamson Act

The California Land Conservation Act of 1965, better known as the Williamson Act, enables local governments to enter into contracts with private land owners to maintain agriculture or open space on properties in exchange for lower property tax assessments. Land uses compatible with agricultural production are determined by the county or city administering the contract. Contracts have a term of at least 10 years and are automatically renewed unless a notice of cancellation is given.

### 9.2 STATE AND LOCAL

#### Kings County General Plan

The Land Use element of the King’s County General Plan identified land use designations for parcels within unincorporated areas of Kings County. Land use designations are designed to facilitate regional growth and to ensure land uses are compatible with anticipated growth, neighboring land uses, infrastructure needs, and the aesthetic character of the area. Land use categories identified within the General Plan include Natural lands, agricultural open space, rural interface, community districts, and urban fringe areas. The Land Use element identifies county goals and policies related to land use, as well as action items to achieve goals and policies.

#### Kings County Development Code

The Kings County Development Code assigns parcels within unincorporated Kings County with zoning designations. The development code defines the various zoning districts and identifies uses that are allowed, conditionally allowed, or prohibited within each district. In addition to the general zoning districts, the development code also identifies overlay zones, which are areas that enhance or supplement a parcel’s base zoning.

## 10.0 NOISE

### 10.1 FEDERAL

#### The U.S. Department of Housing and Urban Development

The U.S. Department of Housing and Urban Development (HUD) provides noise standards to encourage the control of noise at its source in cooperation with other Federal departments and agencies, and encourage land use patterns for housing and other noise sensitive urban needs that will provide a suitable separation between them and major noise sources. HUD considers an acceptable noise level for residential units to be 65 Db.

**The Federal Interagency Committee on Noise**

The Federal Interagency Committee on Noise (FICON) provides guidance in how to assess noise impacts resulting from aircraft operations, shown in **Table 3**. However, although FICON recommendations were specifically developed to assess aircraft noise impacts, these criteria have been applied to other sources of noise similarly described in terms of cumulative noise exposure metrics.

**TABLE 3: SIGNIFICANCE OF CHANGES IN NOISE EXPOSURE LEVELS**

Ambient Noise Level Without Project, Ldn	Increase Required For Significant Impact
< 60 dB	+ 5.0 dB or more
60 to 65 dB	+ 3.0 dB or more
> 65 dB	+ 1.5 dB or more
SOURCE: FICON, 1992	

10.2 STATE AND LOCAL

**California Noise Insulation Standards**

The State of California establishes noise limits for vehicles licensed to operate on public roads. The State has also established noise insulation standards for new multi-family residential units, hotels, and motels that would be subject to high levels of transportation-related noise. The requirements are collectively known as the California Noise Insulation Standards (CNIS; Title 24, CCR). The CNIS set forth an interior day-night average noise level (Ldn) standard of 45 dB in a habitable room. Acoustical analysis demonstrating how dwelling units have been designed to meet this interior standard are required where such units are proposed in areas subject to noise levels greater than 60 dB Ldn.

**Kings County General Plan**

The Noise Element of the County’s General Plan sets acceptable noise levels and facilitates allowable activities based on land uses and proximity of sensitive receptors. According to the General Plan, the purpose of the Noise Element is “to identify the existing and projected future noise environment in Kings County, and provide policy direction and implementation efforts to protect County residents from exposure to excessive noise levels.”

**11.0 PUBLIC SERVICES**

11.1 FEDERAL

**Assembly Bill 939**

Management of non-hazardous solid waste is mandated by Assembly Bill (AB) 939, the California Integrated Waste Management Act. AB 939 and California Public Resources Code 41780 require local jurisdictions, cities, and counties to divert 50 percent of the total waste stream from landfill disposal by the year 2000 and each year thereafter (using 1990 as the base year).

11.2 STATE AND LOCAL

**Kings County General Plan**

The Health and Safety element of the County General Plan addresses public service concerns such as police services, firefighting services, and emergency medical services. The Kings County Fire Department provides fire protection services and is trained in emergency medical response. Additionally, there are five American Ambulance staging areas within Kings County.

The Kings County Sheriff's Office provides law enforcement response services, and the California Highway Patrol provides traffic enforcement.

## **12.0 HAZARDOUS MATERIALS**

### **12.1 FEDERAL**

#### **Resource Conservation and Recovery Act**

The Resource Conservation and Recovery Act of 1976 (RCRA) establishes framework for the proper management of hazardous and nonhazardous solid waste. The USEPA regulates the comprehensive program at active and future facilities to ensure that hazardous waste is managed safely during generation, transportation, and recycling, treatment, storing, and/or disposal, or from "cradle to grave." "Cradle-to-grave" requires detailed documentation and recordkeeping in order to ensure proper accountability for violations of applicable regulations in CFR Titles 29, 40, and 49.

#### **Toxic Substances Control Act**

The Toxic Substances Control Act of 1976 (TSCA) provides the USEPA with authority to require reporting, recordkeeping, and testing requirements, and restrictions related to chemical substances and/or mixtures. TSCA addresses the production, importation, use, and disposal of specific chemicals, including polychlorinated biphenyls, asbestos, radon, and lead-based paint. The Food and Drug Administration regulates food additives and contaminants, drugs, medical devices, and cosmetics. The Federal Insecticide, Fungicide, and Rodenticide Act provides federal regulation of pesticide distribution, sale, and use, and addresses the certification and training of pesticide applicators.

#### **Comprehensive Environmental Response, Compensation, and Liability Act**

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980, also known as Superfund, provides funds to clean up uncontrolled, closed, or abandoned hazardous waste sites, as well as accidents, spills, and other emergency releases of pollutants and contaminants into the environment. The USEPA cleans up orphan sites when potentially responsible parties cannot be identified or located, or when they fail to act.

### **12.2 STATE AND LOCAL**

#### **California Environmental Protection Agency**

The California Environmental Protection Agency (CalEPA) implements, and enforces laws that regulate air, water and soil quality, pesticide use, and waste recycling/reduction. CalEPA oversees activities of the Office of Environmental Health Hazard Assessment, the SWRCB, the Air Resources Board, the Department of Pesticide Regulation, Department of Toxic Substances Control (DTSC), and the Department of Resources Recycling and Recovery. The DTSC takes enforcement actions against violators, oversees hazardous wastes on contaminated properties, makes decisions on permit applications from companies that want to store, treat, or dispose of hazardous waste, and protects consumers against toxic ingredients in everyday products.

#### **California Code of Regulations, Title 22, Division 4.5**

CCR Title 22, Divisions 4 and Division 4.5 address off-Reservation environmental and public health standards for the management of hazardous waste. Hazardous materials are defined as those that pose a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment (22 CCR § 66260.10).



Hazardous waste as defined in 22 CCR § 66261.3 includes acutely hazardous waste, extremely hazardous waste, non-RCRA hazardous waste, RCRA hazardous waste, special waste, and universal waste.

### California Health and Safety Code, Division 20, Chapter 6.95

California Health and Safety Code, Division 20, Chapter 6.95 requires off-reservation businesses to plan and prepare for a chemical emergency through preparation of a Hazardous Materials Inventory and Hazardous Materials Business Plan (HMBP). The local Certified Unified Program Agency conducts routine inspections at businesses required to submit HMBPs via California's Environmental Reporting System.

### Kings County General Plan

The Health and Safety Element of the Kings County General Plan addresses use and production of hazardous materials within the unincorporated portions of the County. The General Plan includes information from the Kings County Area Plan for Hazardous Materials Emergency Response. The County Plan attempts to reduce production and use of hazardous materials within the County and outlines policies for proper storage, use, and disposal.

## 13.0 VISUAL RESOURCES

### 13.1 FEDERAL

#### National Scenic Byway Program

The National Scenic Byway Program was established by Congress in 1991 as the Intermodal Surface Transportation Efficiency Act. The Program is administered by the Federal Highway Administration and was established to preserve scenic but less-traveled roadways. A national scenic byway is a road recognized by the U.S. Department of Transportation for one or more of six intrinsic qualities. Intrinsic qualities include archeological, cultural, historic, natural, recreational, and scenic. National scenic byways must already be designated as state scenic byways or must possess all six qualities to be nominated.

### 13.2 STATE AND LOCAL

#### State Scenic Highways

In 1963, the State Legislature established the California Scenic Highway Program through Senate Bill 1467 and 1468, provisions of which were added to the Streets and Highways Code. Scenic highway designation does not preclude nearby development; however, the program encourages development that does not degrade the scenic value of the highway corridor.

#### Kings County General Plan

According to the County's General Plan, State Routes 41 and 33 provide views of scenic resources in the County. Additionally, the General Plan considers natural waterways, valley oak woodlands, and hilled and mountainous areas to be aesthetically pleasing and important aesthetic resources. Finally, the General Plan acknowledges that agricultural activities make up a significant portion of the valley floor open space within the County. The Property is designated as Agricultural land within the General Plan.

#### Kings County Zoning Ordinance

The Kings County zoning ordinance identifies acceptable land use and activities that may be carried out on a parcel in order to facilitate land use and development in an orderly fashion. The Property parcels are zoned AG 20. The AG 20 zoning district is designed for areas in intensive agricultural use. Permitted uses in the AG 20 district include field crops, fruit/nut trees, timber production, and animal raising.

# **APPENDIX B**

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NRCS SOIL REPORT



United States  
Department of  
Agriculture

NRCS

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for Kings County, California



# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and



## Custom Soil Resource Report

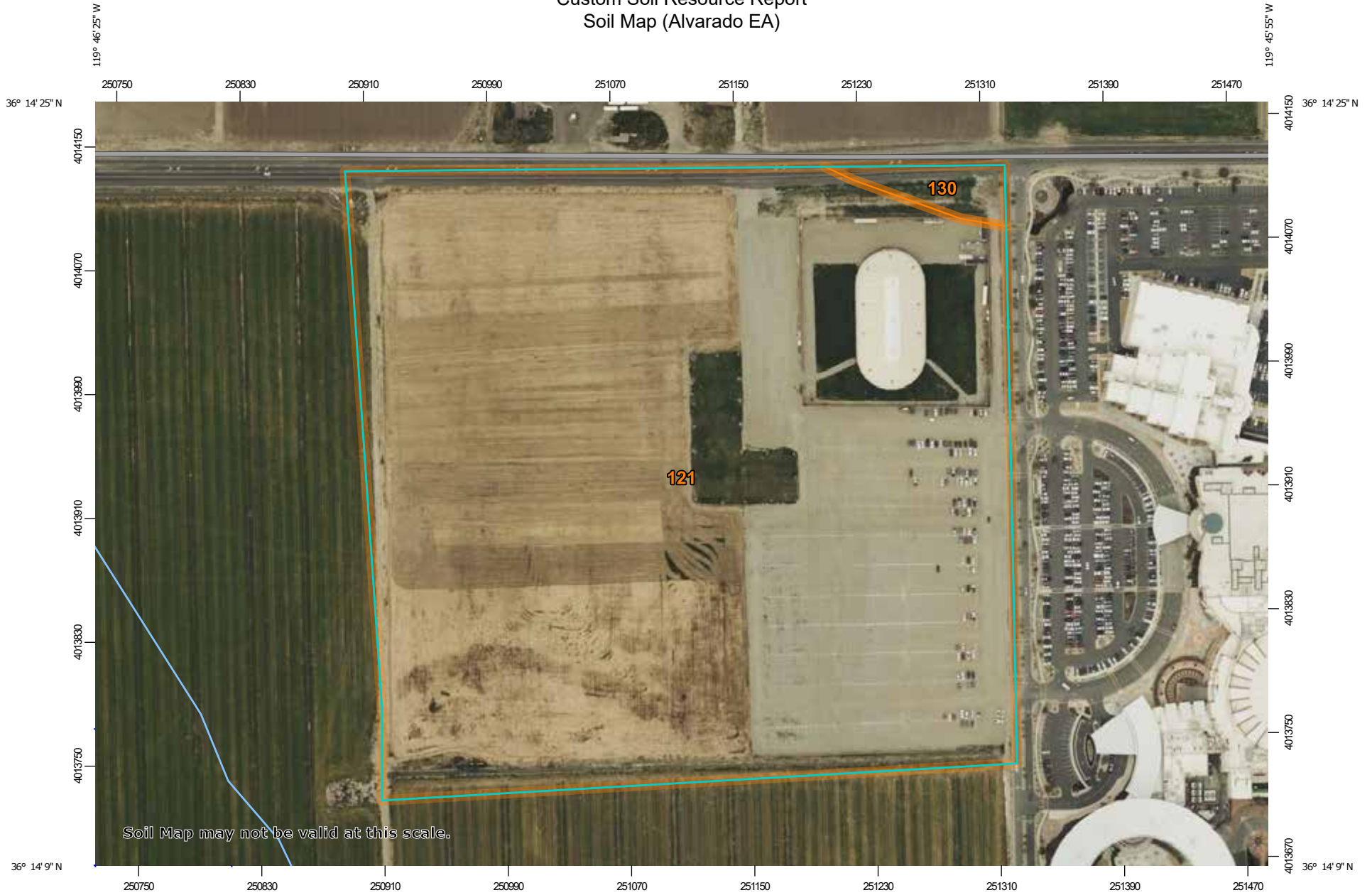
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

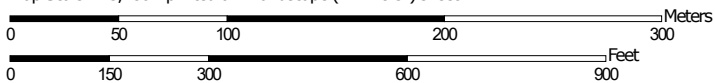
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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report Soil Map (Alvarado EA)



Map Scale: 1:3,480 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Kings County, California  
 Survey Area Data: Version 17, Sep 3, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 17, 2019—Mar 24, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend (Alvarado EA)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
121	Grangeville fine sandy loam, saline-alkali, partially d rained	40.5	98.4%
130	Kimberlina fine sandy loam, saline-alkali	0.7	1.6%
<b>Totals for Area of Interest</b>		<b>41.2</b>	<b>100.0%</b>

## Map Unit Descriptions (Alvarado EA)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

## Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Kings County, California

### 121—Grangeville fine sandy loam, saline-alkali, partially d rained

#### Map Unit Setting

*National map unit symbol:* hhj6

*Elevation:* 210 to 290 feet

*Mean annual precipitation:* 7 to 8 inches

*Mean annual air temperature:* 63 to 64 degrees F

*Frost-free period:* 250 to 275 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Grangeville and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Grangeville

##### Setting

*Landform:* Flood plains, alluvial fans

*Landform position (two-dimensional):* Toeslope, footslope

*Landform position (three-dimensional):* Tread, talf

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Alluvium derived from granite

##### Typical profile

*A - 0 to 10 inches:* fine sandy loam

*C - 10 to 60 inches:* stratified sandy loam to fine sandy loam

##### Properties and qualities

*Slope:* 0 to 1 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Somewhat poorly drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.57 to 1.98 in/hr)

*Depth to water table:* About 0 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Maximum salinity:* Slightly saline to moderately saline (4.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 20.0

*Available water supply, 0 to 60 inches:* Moderate (about 7.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2w

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* B/D

*Ecological site:* R017XY907CA - Aridic Alkali Desert

*Hydric soil rating:* Yes

**Minor Components**

**Kimberlina**

*Percent of map unit:* 3 percent  
*Ecological site:* R017XY907CA - Aridic Alkali Desert  
*Hydric soil rating:* No

**Whitewolf**

*Percent of map unit:* 3 percent  
*Ecological site:* R017XY907CA - Aridic Alkali Desert  
*Hydric soil rating:* No

**Vanguard**

*Percent of map unit:* 3 percent  
*Landform:* Flood plains  
*Ecological site:* R017XY907CA - Aridic Alkali Desert  
*Hydric soil rating:* Yes

**Grangeville**

*Percent of map unit:* 3 percent  
*Landform:* Alluvial fans  
*Ecological site:* R017XY907CA - Aridic Alkali Desert  
*Hydric soil rating:* Yes

**Nord**

*Percent of map unit:* 3 percent  
*Ecological site:* R017XY907CA - Aridic Alkali Desert  
*Hydric soil rating:* No

**130—Kimberlina fine sandy loam, saline-alkali**

**Map Unit Setting**

*National map unit symbol:* hhjh  
*Elevation:* 190 to 3,500 feet  
*Mean annual precipitation:* 4 to 8 inches  
*Mean annual air temperature:* 61 to 64 degrees F  
*Frost-free period:* 210 to 300 days  
*Farmland classification:* Farmland of statewide importance

**Map Unit Composition**

*Kimberlina and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kimberlina**

**Setting**

*Landform:* Alluvial fans  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear



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*Across-slope shape:* Linear

*Parent material:* Alluvium derived from igneous and sedimentary rock

### Typical profile

*Ap - 0 to 8 inches:* fine sandy loam

*C - 8 to 60 inches:* fine sandy loam

### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.57 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Maximum salinity:* Slightly saline to moderately saline (4.0 to 8.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 25.0

*Available water supply, 0 to 60 inches:* Very low (about 3.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* 2s

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* C

*Ecological site:* R017XY906CA - Non-Alkali San Joaquin Valley Desert

*Hydric soil rating:* No

### Minor Components

#### Excelsior

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

#### Wasco

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

#### Kimberlina, sandy substratum

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

#### Nord

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

#### Cajon

*Percent of map unit:* 1 percent

*Hydric soil rating:* No

#### Unnamed, rare flooding

*Percent of map unit:* 1 percent

*Landform:* Sloughs

*Hydric soil rating:* Yes

#### Garces

*Percent of map unit:* 1 percent

*Hydric soil rating:* No

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### **Melga**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

### **Remnoy**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

### **Yound**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

### **Unnamed, rare flooding**

*Percent of map unit:* 1 percent  
*Hydric soil rating:* No

# References

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- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)

# APPENDIX C

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CALEEMOD FILES

Alvarado EA - Kings County, Annual

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

**Alvarado EA  
Kings County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	185.00	Space	1.66	74,000.00	0
Regional Shopping Center	15.00	1000sqft	0.34	15,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	3			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -  
 Land Use -  
 Construction Phase -  
 Grading - Balanced cut/fill

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**



Alvarado EA - Kings County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.5228	0.5228
2	4-1-2023	6-30-2023	0.5292	0.5292
3	7-1-2023	9-30-2023	0.5350	0.5350
		Highest	0.5350	0.5350

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003
Energy	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	40.8936	40.8936	3.8300e-003	7.8000e-004	41.2209
Mobile	0.2808	0.4621	2.2400	4.8400e-003	0.4371	4.6200e-003	0.4418	0.1169	4.3400e-003	0.1212	0.0000	452.1575	452.1575	0.0281	0.0292	461.5599
Waste						0.0000	0.0000		0.0000	0.0000	14.7676	0.0000	14.7676	0.8727	0.0000	36.5861
Water						0.0000	0.0000		0.0000	0.0000	0.4518	1.0919	1.5437	0.0466	1.1200e-003	3.0410
<b>Total</b>	<b>0.4043</b>	<b>0.4801</b>	<b>2.2570</b>	<b>4.9500e-003</b>	<b>0.4371</b>	<b>5.9900e-003</b>	<b>0.4431</b>	<b>0.1169</b>	<b>5.7100e-003</b>	<b>0.1226</b>	<b>15.2194</b>	<b>494.1468</b>	<b>509.3662</b>	<b>0.9512</b>	<b>0.0311</b>	<b>542.4118</b>



Alvarado EA - Kings County, Annual

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003
Energy	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	40.8936	40.8936	3.8300e-003	7.8000e-004	41.2209
Mobile	0.2808	0.4621	2.2400	4.8400e-003	0.4371	4.6200e-003	0.4418	0.1169	4.3400e-003	0.1212	0.0000	452.1575	452.1575	0.0281	0.0292	461.5599
Waste						0.0000	0.0000		0.0000	0.0000	14.7676	0.0000	14.7676	0.8727	0.0000	36.5861
Water						0.0000	0.0000		0.0000	0.0000	0.4518	1.0919	1.5437	0.0466	1.1200e-003	3.0410
<b>Total</b>	<b>0.4043</b>	<b>0.4801</b>	<b>2.2570</b>	<b>4.9500e-003</b>	<b>0.4371</b>	<b>5.9900e-003</b>	<b>0.4431</b>	<b>0.1169</b>	<b>5.7100e-003</b>	<b>0.1226</b>	<b>15.2194</b>	<b>494.1468</b>	<b>509.3662</b>	<b>0.9512</b>	<b>0.0311</b>	<b>542.4118</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/4/2023	5	3	
2	Grading	Grading	1/5/2023	1/12/2023	5	6	
3	Building Construction	Building Construction	1/13/2023	11/16/2023	5	220	

Alvarado EA - Kings County, Annual

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

4	Paving	Paving	11/17/2023	11/30/2023	5	10
5	Architectural Coating	Architectural Coating	12/1/2023	12/14/2023	5	10

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 1.66**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 4,440 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Alvarado EA - Kings County, Annual

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	16.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

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

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1183	0.1183	0.0000	0.0000	0.1193
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1183</b>	<b>0.1183</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1193</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

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

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1183	0.1183	0.0000	0.0000	0.1193
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1183</b>	<b>0.1183</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1193</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0434</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.8100e-003</b>	<b>0.0231</b>	<b>0.0103</b>	<b>1.6700e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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

**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2957	0.2957	1.0000e-005	1.0000e-005	0.2982
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2957</b>	<b>0.2957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2982</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0434</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.8100e-003</b>	<b>0.0231</b>	<b>0.0103</b>	<b>1.6700e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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

**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2957	0.2957	1.0000e-005	1.0000e-005	0.2982
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2957</b>	<b>0.2957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2982</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1885	1.4986	1.5636	2.7500e-003		0.0675	0.0675		0.0647	0.0647	0.0000	228.4723	228.4723	0.0432	0.0000	229.5525
<b>Total</b>	<b>0.1885</b>	<b>1.4986</b>	<b>1.5636</b>	<b>2.7500e-003</b>		<b>0.0675</b>	<b>0.0675</b>		<b>0.0647</b>	<b>0.0647</b>	<b>0.0000</b>	<b>228.4723</b>	<b>228.4723</b>	<b>0.0432</b>	<b>0.0000</b>	<b>229.5525</b>

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0734	0.0253	3.3000e-004	0.0106	4.7000e-004	0.0111	3.0600e-003	4.5000e-004	3.5100e-003	0.0000	31.8037	31.8037	1.3000e-004	4.6000e-003	33.1788
Worker	0.0174	0.0129	0.1567	4.7000e-004	0.0550	2.7000e-004	0.0552	0.0146	2.5000e-004	0.0149	0.0000	43.3682	43.3682	1.0400e-003	1.1300e-003	43.7306
<b>Total</b>	<b>0.0195</b>	<b>0.0863</b>	<b>0.1820</b>	<b>8.0000e-004</b>	<b>0.0656</b>	<b>7.4000e-004</b>	<b>0.0663</b>	<b>0.0177</b>	<b>7.0000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>75.1719</b>	<b>75.1719</b>	<b>1.1700e-003</b>	<b>5.7300e-003</b>	<b>76.9094</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1885	1.4986	1.5636	2.7500e-003		0.0675	0.0675		0.0647	0.0647	0.0000	228.4720	228.4720	0.0432	0.0000	229.5522
<b>Total</b>	<b>0.1885</b>	<b>1.4986</b>	<b>1.5636</b>	<b>2.7500e-003</b>		<b>0.0675</b>	<b>0.0675</b>		<b>0.0647</b>	<b>0.0647</b>	<b>0.0000</b>	<b>228.4720</b>	<b>228.4720</b>	<b>0.0432</b>	<b>0.0000</b>	<b>229.5522</b>



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

**3.4 Building Construction - 2023**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0734	0.0253	3.3000e-004	0.0106	4.7000e-004	0.0111	3.0600e-003	4.5000e-004	3.5100e-003	0.0000	31.8037	31.8037	1.3000e-004	4.6000e-003	33.1788
Worker	0.0174	0.0129	0.1567	4.7000e-004	0.0550	2.7000e-004	0.0552	0.0146	2.5000e-004	0.0149	0.0000	43.3682	43.3682	1.0400e-003	1.1300e-003	43.7306
<b>Total</b>	<b>0.0195</b>	<b>0.0863</b>	<b>0.1820</b>	<b>8.0000e-004</b>	<b>0.0656</b>	<b>7.4000e-004</b>	<b>0.0663</b>	<b>0.0177</b>	<b>7.0000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>75.1719</b>	<b>75.1719</b>	<b>1.1700e-003</b>	<b>5.7300e-003</b>	<b>76.9094</b>

**3.5 Paving - 2023**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.5700e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8179</b>

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**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7392	0.7392	2.0000e-005	2.0000e-005	0.7454
<b>Total</b>	<b>3.0000e-004</b>	<b>2.2000e-004</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7392</b>	<b>0.7392</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7454</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.5700e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8178</b>

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7392	0.7392	2.0000e-005	2.0000e-005	0.7454
<b>Total</b>	<b>3.0000e-004</b>	<b>2.2000e-004</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7392</b>	<b>0.7392</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7454</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1902</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.4200e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3943	0.3943	1.0000e-005	1.0000e-005	0.3976
<b>Total</b>	<b>1.6000e-004</b>	<b>1.2000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3943</b>	<b>0.3943</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3976</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1902</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.4200e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3943	0.3943	1.0000e-005	1.0000e-005	0.3976
<b>Total</b>	<b>1.6000e-004</b>	<b>1.2000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3943</b>	<b>0.3943</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3976</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2808	0.4621	2.2400	4.8400e-003	0.4371	4.6200e-003	0.4418	0.1169	4.3400e-003	0.1212	0.0000	452.1575	452.1575	0.0281	0.0292	461.5599
Unmitigated	0.2808	0.4621	2.2400	4.8400e-003	0.4371	4.6200e-003	0.4418	0.1169	4.3400e-003	0.1212	0.0000	452.1575	452.1575	0.0281	0.0292	461.5599

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	566.25	691.80	316.50	994,487	994,487
Place of Worship	69.50	59.90	276.30	165,230	165,230
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>635.75</b>	<b>751.70</b>	<b>592.80</b>	<b>1,159,717</b>	<b>1,159,717</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.499450	0.050999	0.167682	0.169158	0.030998	0.006865	0.008236	0.035978	0.000633	0.000190	0.024959	0.001183	0.003668
Place of Worship	0.499450	0.050999	0.167682	0.169158	0.030998	0.006865	0.008236	0.035978	0.000633	0.000190	0.024959	0.001183	0.003668

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

Parking Lot	0.499450	0.050999	0.167682	0.169158	0.030998	0.006865	0.008236	0.035978	0.000633	0.000190	0.024959	0.001183	0.003668
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3545	21.3545	3.4500e-003	4.2000e-004	21.5656
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3545	21.3545	3.4500e-003	4.2000e-004	21.5656
NaturalGas Mitigated	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5392	19.5392	3.7000e-004	3.6000e-004	19.6553
NaturalGas Unmitigated	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5392	19.5392	3.7000e-004	3.6000e-004	19.6553

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	207000	1.1200e-003	0.0102	8.5200e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0463	11.0463	2.1000e-004	2.0000e-004	11.1120
Regional Shopping Center	159150	8.6000e-004	7.8000e-003	6.5500e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4929	8.4929	1.6000e-004	1.6000e-004	8.5433
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0180</b>	<b>0.0151</b>	<b>1.1000e-004</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>19.5392</b>	<b>19.5392</b>	<b>3.7000e-004</b>	<b>3.6000e-004</b>	<b>19.6553</b>



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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	207000	1.1200e-003	0.0102	8.5200e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0463	11.0463	2.1000e-004	2.0000e-004	11.1120
Regional Shopping Center	159150	8.6000e-004	7.8000e-003	6.5500e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4929	8.4929	1.6000e-004	1.6000e-004	8.5433
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0180</b>	<b>0.0151</b>	<b>1.1000e-004</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>19.5392</b>	<b>19.5392</b>	<b>3.7000e-004</b>	<b>3.6000e-004</b>	<b>19.6553</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	25900	2.3964	3.9000e-004	5.0000e-005	2.4201
Place of Worship	86100	7.9663	1.2900e-003	1.6000e-004	8.0451
Regional Shopping Center	118800	10.9918	1.7800e-003	2.2000e-004	11.1005
<b>Total</b>		<b>21.3545</b>	<b>3.4600e-003</b>	<b>4.3000e-004</b>	<b>21.5656</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	25900	2.3964	3.9000e-004	5.0000e-005	2.4201
Place of Worship	86100	7.9663	1.2900e-003	1.6000e-004	8.0451
Regional Shopping Center	118800	10.9918	1.7800e-003	2.2000e-004	11.1005
<b>Total</b>		<b>21.3545</b>	<b>3.4600e-003</b>	<b>4.3000e-004</b>	<b>21.5656</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1215	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003
Unmitigated	0.1215	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0189					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003
<b>Total</b>	<b>0.1215</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.7500e-003</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0189					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	4.0000e-003
<b>Total</b>	<b>0.1215</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.7500e-003</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5437	0.0466	1.1200e-003	3.0410
Unmitigated	1.5437	0.0466	1.1200e-003	3.0410

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.312889 / 0.489391	0.4144	0.0103	2.5000e-004	0.7441
Regional Shopping Center	1.11109 / 0.680989	1.1293	0.0363	8.7000e-004	2.2968
<b>Total</b>		<b>1.5437</b>	<b>0.0466</b>	<b>1.1200e-003</b>	<b>3.0410</b>

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

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.312889 / 0.489391	0.4144	0.0103	2.5000e-004	0.7441
Regional Shopping Center	1.11109 / 0.680989	1.1293	0.0363	8.7000e-004	2.2968
<b>Total</b>		<b>1.5437</b>	<b>0.0466</b>	<b>1.1200e-003</b>	<b>3.0410</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.7676	0.8727	0.0000	36.5861
Unmitigated	14.7676	0.8727	0.0000	36.5861

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	57	11.5705	0.6838	0.0000	28.6654
Regional Shopping Center	15.75	3.1971	0.1889	0.0000	7.9207
<b>Total</b>		<b>14.7676</b>	<b>0.8727</b>	<b>0.0000</b>	<b>36.5861</b>



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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	57	11.5705	0.6838	0.0000	28.6654
Regional Shopping Center	15.75	3.1971	0.1889	0.0000	7.9207
<b>Total</b>		<b>14.7676</b>	<b>0.8727</b>	<b>0.0000</b>	<b>36.5861</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

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

**11.0 Vegetation**

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

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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	10.00	1000sqft	0.23	10,000.00	0
Parking Lot	185.00	Space	1.66	74,000.00	0
Regional Shopping Center	15.00	1000sqft	0.34	15,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	3			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -  
 Land Use -  
 Construction Phase -  
 Grading - Balanced cut/fill

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

**2.0 Emissions Summary**



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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.5228	0.5228
2	4-1-2023	6-30-2023	0.5292	0.5292
3	7-1-2023	9-30-2023	0.5350	0.5350
		Highest	0.5350	0.5350

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003
Energy	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	40.8936	40.8936	3.8300e-003	7.8000e-004	41.2209
Mobile	0.2059	0.3498	1.7196	3.9500e-003	0.4366	3.5400e-003	0.4401	0.1166	3.3300e-003	0.1199	0.0000	384.0011	384.0011	0.0200	0.0231	391.3837
Waste						0.0000	0.0000		0.0000	0.0000	14.7676	0.0000	14.7676	0.8727	0.0000	36.5861
Water						0.0000	0.0000		0.0000	0.0000	0.4518	1.0919	1.5437	0.0466	1.1200e-003	3.0410
<b>Total</b>	<b>0.3294</b>	<b>0.3678</b>	<b>1.7366</b>	<b>4.0600e-003</b>	<b>0.4366</b>	<b>4.9100e-003</b>	<b>0.4415</b>	<b>0.1166</b>	<b>4.7000e-003</b>	<b>0.1213</b>	<b>15.2194</b>	<b>425.9904</b>	<b>441.2097</b>	<b>0.9432</b>	<b>0.0250</b>	<b>472.2357</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1215	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003
Energy	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	40.8936	40.8936	3.8300e-003	7.8000e-004	41.2209
Mobile	0.2059	0.3498	1.7196	3.9500e-003	0.4366	3.5400e-003	0.4401	0.1166	3.3300e-003	0.1199	0.0000	384.0011	384.0011	0.0200	0.0231	391.3837
Waste						0.0000	0.0000		0.0000	0.0000	14.7676	0.0000	14.7676	0.8727	0.0000	36.5861
Water						0.0000	0.0000		0.0000	0.0000	0.4518	1.0919	1.5437	0.0466	1.1200e-003	3.0410
<b>Total</b>	<b>0.3294</b>	<b>0.3678</b>	<b>1.7366</b>	<b>4.0600e-003</b>	<b>0.4366</b>	<b>4.9100e-003</b>	<b>0.4415</b>	<b>0.1166</b>	<b>4.7000e-003</b>	<b>0.1213</b>	<b>15.2194</b>	<b>425.9904</b>	<b>441.2097</b>	<b>0.9432</b>	<b>0.0250</b>	<b>472.2357</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2023	1/4/2023	5	3	
2	Grading	Grading	1/5/2023	1/12/2023	5	6	
3	Building Construction	Building Construction	1/13/2023	11/16/2023	5	220	

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4	Paving	Paving	11/17/2023	11/30/2023	5	10
5	Architectural Coating	Architectural Coating	12/1/2023	12/14/2023	5	10

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 1.66**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped Parking Area: 4,440 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	16.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>



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

**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1183	0.1183	0.0000	0.0000	0.1193
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1183</b>	<b>0.1183</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1193</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

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

**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.3000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1183	0.1183	0.0000	0.0000	0.1193
<b>Total</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1183</b>	<b>0.1183</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1193</b>

**3.3 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0434</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.8100e-003</b>	<b>0.0231</b>	<b>0.0103</b>	<b>1.6700e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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**3.3 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2957	0.2957	1.0000e-005	1.0000e-005	0.2982
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2957</b>	<b>0.2957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2982</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>4.0000e-003</b>	<b>0.0434</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.8100e-003</b>	<b>0.0231</b>	<b>0.0103</b>	<b>1.6700e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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**3.3 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	1.0700e-003	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2957	0.2957	1.0000e-005	1.0000e-005	0.2982
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2957</b>	<b>0.2957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2982</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1885	1.4986	1.5636	2.7500e-003		0.0675	0.0675		0.0647	0.0647	0.0000	228.4723	228.4723	0.0432	0.0000	229.5525
<b>Total</b>	<b>0.1885</b>	<b>1.4986</b>	<b>1.5636</b>	<b>2.7500e-003</b>		<b>0.0675</b>	<b>0.0675</b>		<b>0.0647</b>	<b>0.0647</b>	<b>0.0000</b>	<b>228.4723</b>	<b>228.4723</b>	<b>0.0432</b>	<b>0.0000</b>	<b>229.5525</b>

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

**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0734	0.0253	3.3000e-004	0.0106	4.7000e-004	0.0111	3.0600e-003	4.5000e-004	3.5100e-003	0.0000	31.8037	31.8037	1.3000e-004	4.6000e-003	33.1788
Worker	0.0174	0.0129	0.1567	4.7000e-004	0.0550	2.7000e-004	0.0552	0.0146	2.5000e-004	0.0149	0.0000	43.3682	43.3682	1.0400e-003	1.1300e-003	43.7306
<b>Total</b>	<b>0.0195</b>	<b>0.0863</b>	<b>0.1820</b>	<b>8.0000e-004</b>	<b>0.0656</b>	<b>7.4000e-004</b>	<b>0.0663</b>	<b>0.0177</b>	<b>7.0000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>75.1719</b>	<b>75.1719</b>	<b>1.1700e-003</b>	<b>5.7300e-003</b>	<b>76.9094</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1885	1.4986	1.5636	2.7500e-003		0.0675	0.0675		0.0647	0.0647	0.0000	228.4720	228.4720	0.0432	0.0000	229.5522
<b>Total</b>	<b>0.1885</b>	<b>1.4986</b>	<b>1.5636</b>	<b>2.7500e-003</b>		<b>0.0675</b>	<b>0.0675</b>		<b>0.0647</b>	<b>0.0647</b>	<b>0.0000</b>	<b>228.4720</b>	<b>228.4720</b>	<b>0.0432</b>	<b>0.0000</b>	<b>229.5522</b>

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**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0734	0.0253	3.3000e-004	0.0106	4.7000e-004	0.0111	3.0600e-003	4.5000e-004	3.5100e-003	0.0000	31.8037	31.8037	1.3000e-004	4.6000e-003	33.1788
Worker	0.0174	0.0129	0.1567	4.7000e-004	0.0550	2.7000e-004	0.0552	0.0146	2.5000e-004	0.0149	0.0000	43.3682	43.3682	1.0400e-003	1.1300e-003	43.7306
<b>Total</b>	<b>0.0195</b>	<b>0.0863</b>	<b>0.1820</b>	<b>8.0000e-004</b>	<b>0.0656</b>	<b>7.4000e-004</b>	<b>0.0663</b>	<b>0.0177</b>	<b>7.0000e-004</b>	<b>0.0184</b>	<b>0.0000</b>	<b>75.1719</b>	<b>75.1719</b>	<b>1.1700e-003</b>	<b>5.7300e-003</b>	<b>76.9094</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.5700e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8179</b>

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**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7392	0.7392	2.0000e-005	2.0000e-005	0.7454
<b>Total</b>	<b>3.0000e-004</b>	<b>2.2000e-004</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7392</b>	<b>0.7392</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7454</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	2.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.5700e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8178</b>

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	2.6700e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.7392	0.7392	2.0000e-005	2.0000e-005	0.7454
<b>Total</b>	<b>3.0000e-004</b>	<b>2.2000e-004</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.7392</b>	<b>0.7392</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7454</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1902</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>



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**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.4200e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3943	0.3943	1.0000e-005	1.0000e-005	0.3976
<b>Total</b>	<b>1.6000e-004</b>	<b>1.2000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3943</b>	<b>0.3943</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3976</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1893					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1902</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.2000e-004	1.4200e-003	0.0000	5.0000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3943	0.3943	1.0000e-005	1.0000e-005	0.3976
<b>Total</b>	<b>1.6000e-004</b>	<b>1.2000e-004</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3943</b>	<b>0.3943</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3976</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2059	0.3498	1.7196	3.9500e-003	0.4366	3.5400e-003	0.4401	0.1166	3.3300e-003	0.1199	0.0000	384.0011	384.0011	0.0200	0.0231	391.3837
Unmitigated	0.2059	0.3498	1.7196	3.9500e-003	0.4366	3.5400e-003	0.4401	0.1166	3.3300e-003	0.1199	0.0000	384.0011	384.0011	0.0200	0.0231	391.3837

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Place of Worship	69.50	59.90	276.30	165,230	165,230
Regional Shopping Center	566.25	691.80	316.50	994,487	994,487
<b>Total</b>	<b>635.75</b>	<b>751.70</b>	<b>592.80</b>	<b>1,159,717</b>	<b>1,159,717</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Place of Worship	14.70	6.60	6.60	0.00	95.00	5.00	64	25	11
Regional Shopping Center	14.70	6.60	6.60	16.30	64.70	19.00	54	35	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.526829	0.054483	0.174820	0.140491	0.024491	0.006111	0.008028	0.037066	0.000568	0.000184	0.023099	0.000991	0.002841
Place of Worship	0.526829	0.054483	0.174820	0.140491	0.024491	0.006111	0.008028	0.037066	0.000568	0.000184	0.023099	0.000991	0.002841

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Regional Shopping Center	0.526829	0.054483	0.174820	0.140491	0.024491	0.006111	0.008028	0.037066	0.000568	0.000184	0.023099	0.000991	0.002841
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3545	21.3545	3.4500e-003	4.2000e-004	21.5656
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	21.3545	21.3545	3.4500e-003	4.2000e-004	21.5656
NaturalGas Mitigated	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5392	19.5392	3.7000e-004	3.6000e-004	19.6553
NaturalGas Unmitigated	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5392	19.5392	3.7000e-004	3.6000e-004	19.6553

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	207000	1.1200e-003	0.0102	8.5200e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0463	11.0463	2.1000e-004	2.0000e-004	11.1120
Regional Shopping Center	159150	8.6000e-004	7.8000e-003	6.5500e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4929	8.4929	1.6000e-004	1.6000e-004	8.5433
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0180</b>	<b>0.0151</b>	<b>1.1000e-004</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>19.5392</b>	<b>19.5392</b>	<b>3.7000e-004</b>	<b>3.6000e-004</b>	<b>19.6553</b>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	207000	1.1200e-003	0.0102	8.5200e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0463	11.0463	2.1000e-004	2.0000e-004	11.1120
Regional Shopping Center	159150	8.6000e-004	7.8000e-003	6.5500e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.4929	8.4929	1.6000e-004	1.6000e-004	8.5433
<b>Total</b>		<b>1.9800e-003</b>	<b>0.0180</b>	<b>0.0151</b>	<b>1.1000e-004</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>		<b>1.3600e-003</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>19.5392</b>	<b>19.5392</b>	<b>3.7000e-004</b>	<b>3.6000e-004</b>	<b>19.6553</b>

Alvarado EA - Kings County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	25900	2.3964	3.9000e-004	5.0000e-005	2.4201
Place of Worship	86100	7.9663	1.2900e-003	1.6000e-004	8.0451
Regional Shopping Center	118800	10.9918	1.7800e-003	2.2000e-004	11.1005
<b>Total</b>		<b>21.3545</b>	<b>3.4600e-003</b>	<b>4.3000e-004</b>	<b>21.5656</b>

Alvarado EA - Kings County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	25900	2.3964	3.9000e-004	5.0000e-005	2.4201
Place of Worship	86100	7.9663	1.2900e-003	1.6000e-004	8.0451
Regional Shopping Center	118800	10.9918	1.7800e-003	2.2000e-004	11.1005
<b>Total</b>		<b>21.3545</b>	<b>3.4600e-003</b>	<b>4.3000e-004</b>	<b>21.5656</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Alvarado EA - Kings County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1215	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003
Unmitigated	0.1215	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0189					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003
<b>Total</b>	<b>0.1215</b>	<b>2.0000e-005</b>	<b>1.9200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.7500e-003</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9900e-003</b>

Alvarado EA - Kings County, Annual

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0189					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7500e-003	3.7500e-003	1.0000e-005	0.0000	3.9900e-003
<b>Total</b>	<b>0.1215</b>	<b>2.0000e-005</b>	<b>1.9200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.7500e-003</b>	<b>3.7500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.9900e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Alvarado EA - Kings County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.5437	0.0466	1.1200e-003	3.0410
Unmitigated	1.5437	0.0466	1.1200e-003	3.0410

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.312889 / 0.489391	0.4144	0.0103	2.5000e-004	0.7441
Regional Shopping Center	1.11109 / 0.680989	1.1293	0.0363	8.7000e-004	2.2968
<b>Total</b>		<b>1.5437</b>	<b>0.0466</b>	<b>1.1200e-003</b>	<b>3.0410</b>

Alvarado EA - Kings County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.312889 / 0.489391	0.4144	0.0103	2.5000e-004	0.7441
Regional Shopping Center	1.11109 / 0.680989	1.1293	0.0363	8.7000e-004	2.2968
<b>Total</b>		<b>1.5437</b>	<b>0.0466</b>	<b>1.1200e-003</b>	<b>3.0410</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Alvarado EA - Kings County, Annual

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

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.7676	0.8727	0.0000	36.5861
Unmitigated	14.7676	0.8727	0.0000	36.5861

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	57	11.5705	0.6838	0.0000	28.6654
Regional Shopping Center	15.75	3.1971	0.1889	0.0000	7.9207
<b>Total</b>		<b>14.7676</b>	<b>0.8727</b>	<b>0.0000</b>	<b>36.5861</b>

Alvarado EA - Kings County, Annual

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

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	57	11.5705	0.6838	0.0000	28.6654
Regional Shopping Center	15.75	3.1971	0.1889	0.0000	7.9207
<b>Total</b>		<b>14.7676</b>	<b>0.8727</b>	<b>0.0000</b>	<b>36.5861</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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Alvarado EA - Kings County, Annual

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

**11.0 Vegetation**

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# **APPENDIX D**

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BIOLOGICAL MEMORANDUM



# BIOLOGICAL MEMORANDUM

## ALVARADO PARCELS

**To:** Santa Rosa Rancheria; Tachi Yokut Tribal Government  
 Attn: Leland Mcgee, Tribal Administrator  
 16835 Alkali Drive  
 Lemoore, CA 93245

**FROM:** Zachary Carpenter, Biologist  
 Analytical Environmental Services  
 1801 7<sup>th</sup> Street, Suite 100  
 Sacramento, CA 95811

**PROJECT:** Santa Rosa Rancheria Fee to Trust

**DATE:** 5/18/2020

### 1.0 INTRODUCTION

This memorandum has been prepared to address the fee to trust process of two parcels owned by the Santa Rosa Rancheria Tachi Yokut Tribe (**Table 1**). The Alvarado Parcels total approximately 37 acres, and are located adjacent to the west of the Tachi Palace Casino Resort Kings County, California (**Figure 1**) on the U.S. Geological Survey (USGS) 7.5-minute Stratford quadrangle (**Figure 2**). The purpose of this assessment is to identify sensitive biological resources that may be located on or near the Alvarado Parcels.

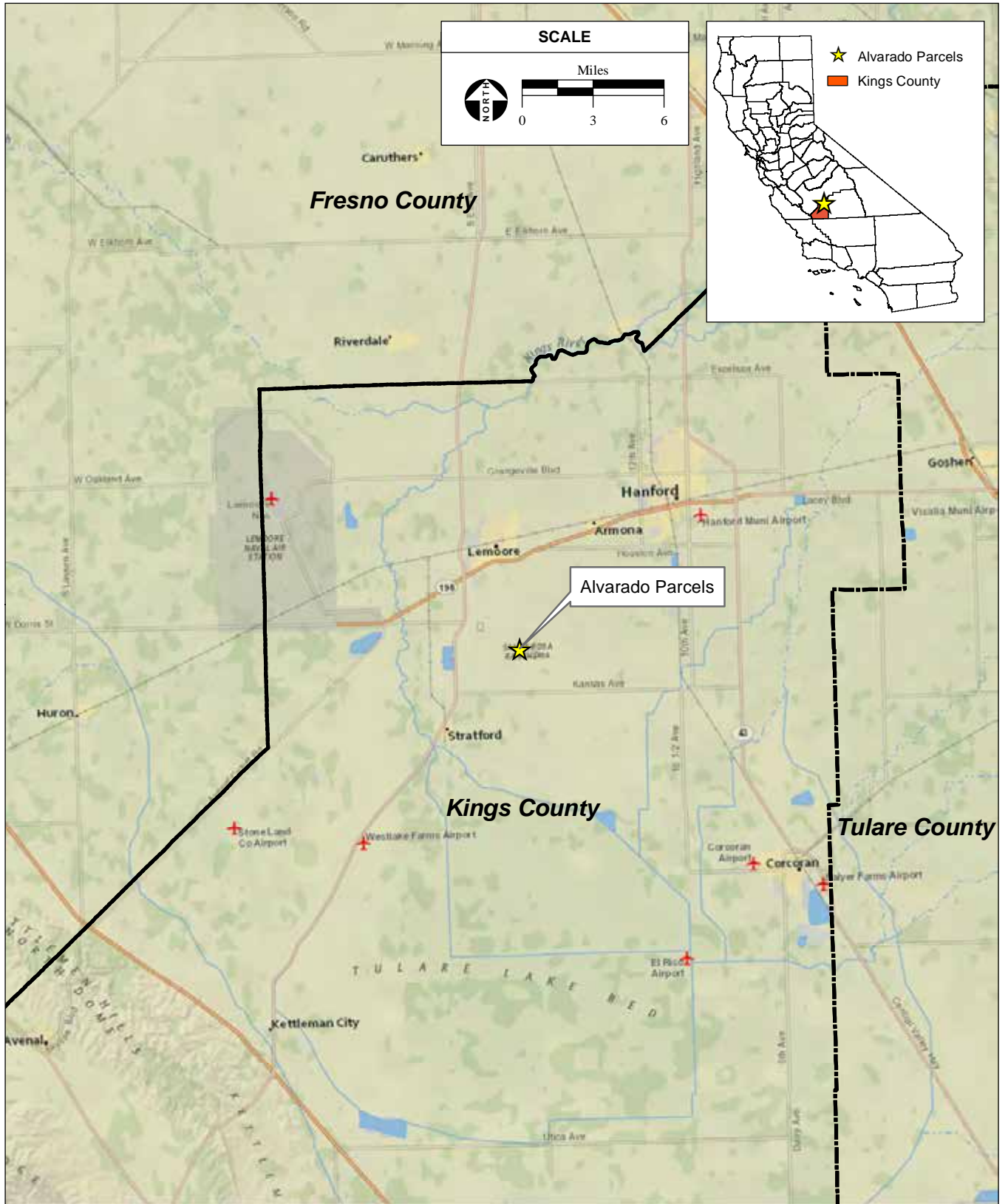
**TABLE 1 – ALVARADO PARCELS**

#	Assessor Parcel Number	Acreage
1.	024160023	18.42
2.	024160024	18.61
<b>Approximate Total Acreage</b>		<b>37.03</b>

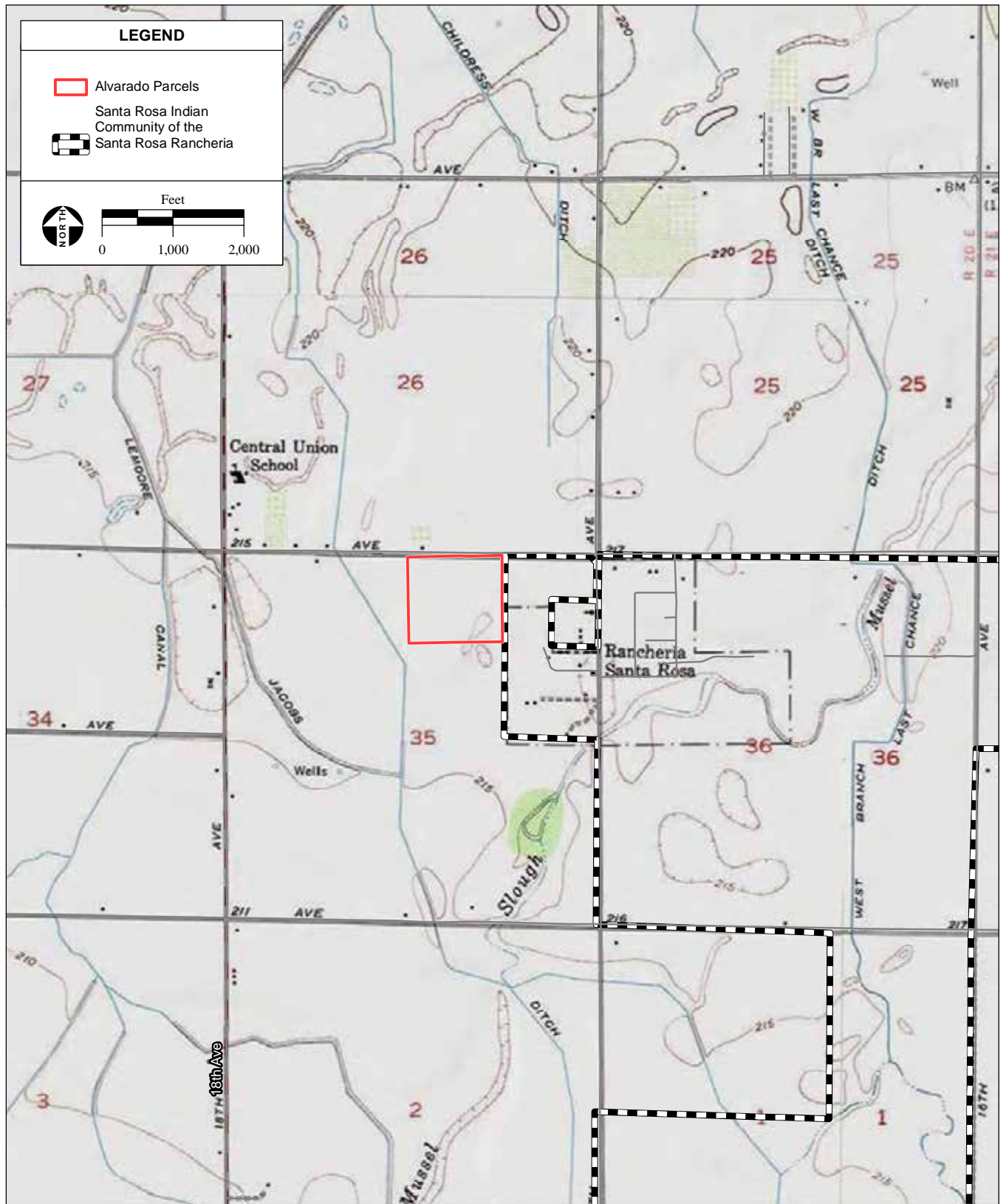
### 2.0 METHODOLOGY

The following information was reviewed:

- Aerial photographs of the Alvarado Parcels and surrounding area;
- U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation list, updated March 2, 2020 (USFWS, 2020);
- California Natural Diversity Database list, updated March 2, 2020 (CDFW, 2020);
- California Native Plant Society (CNPS) list, updated March 2, 2020 (CNPS, 2020);
- National Wetlands Inventory (NWI) database (NWI, 2020); and
- U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) Custom Soil Resource Report (NRCS, 2020).



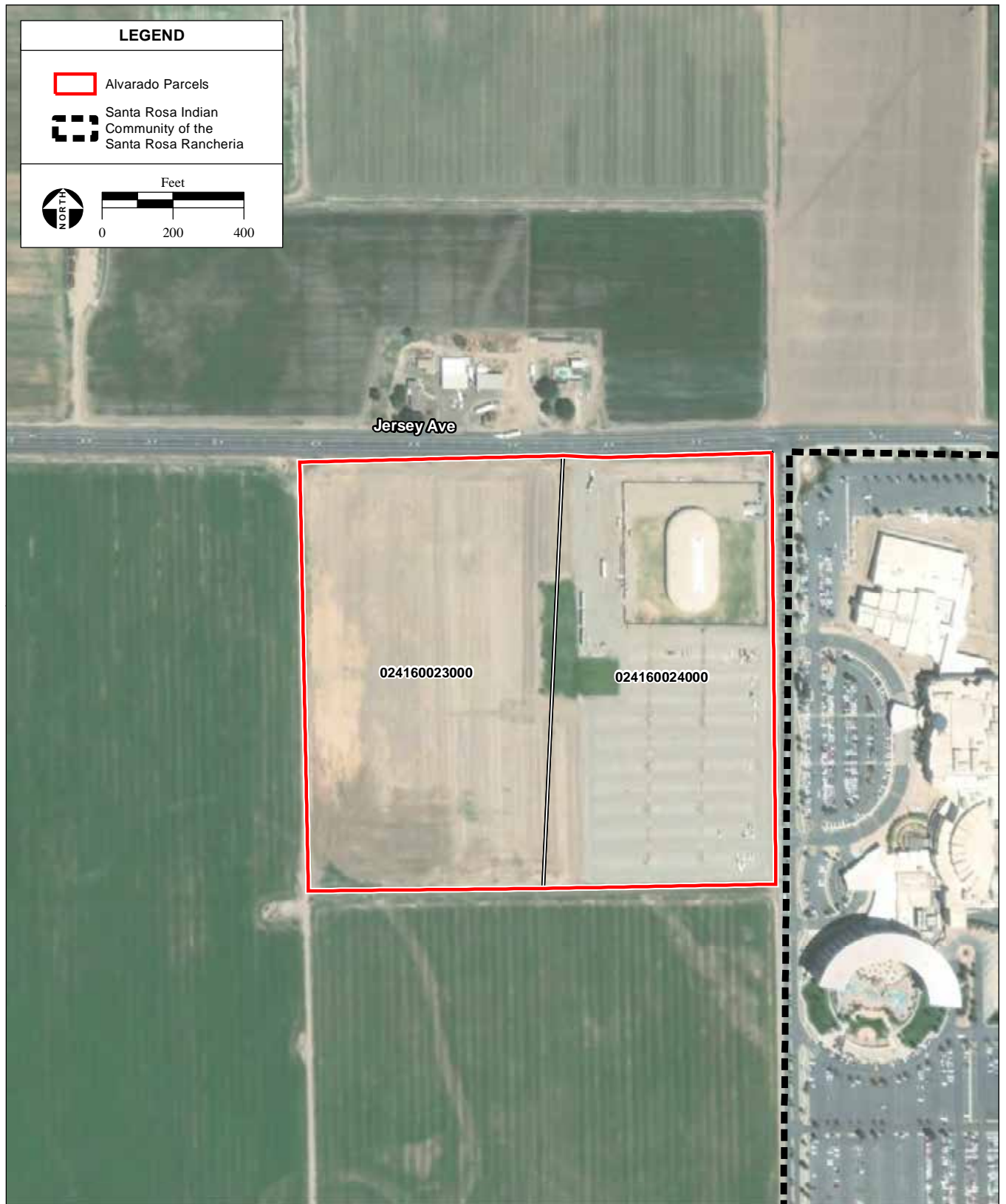
**Figure 1**  
Regional Location



SOURCE: "Stratford, CA" USGS 7.5 Minute Topographic Quadrangles, T19S R20E Section 35, Mt. Diablo Baseline & Meridian; AES, 5/18/2020

Santa Rosa Rancheria Fee-to-Trust Project Alvarado Parcels Biological Memo / 220503 ■

**Figure 2**  
Site and Vicinity



SOURCE: DigitalGlobe Aerial Photograph, 6/30/2018;  
AES, 5/18/2020

Santa Rosa Rancheria Fee-to-Trust Project Alvarado Parcels Biological Memo / 220503 ■

**Figure 3**  
Aerial Photograph

A biological resources survey was conducted on the Alvarado Parcels on March 11, 2020. The survey was conducted by walking transects throughout the Alvarado Parcels and along adjacent areas and roadways. Survey goals consisted of identifying habitat types, sensitive habitats, wetlands and waters of the U.S, and special-status species. Sensitive habitats include those that are designated by CDFW, considered by local experts to be communities of limited distribution, or are considered waters of the U.S. or State by the appropriate regulatory agencies. Habitat requirements of special-status species were compared to habitats observed, which were determined based on aerial photographs, observation, and background data review.

## 3.0 ENVIRONMENTAL SETTING

### 3.1 TOPOGRAPHY AND SOILS

The Alvarado Parcels are located within the southern portion of the San Joaquin Valley on relatively level terrain. On-site elevations are approximately 220 feet above mean sea level. The Alvarado Parcels are comprised of Grangeville sandy loam, Kimberlina loam, and Lemoore sandy loam. These soils are classified as Farmland of Statewide Importance and are considered hydric. Soil characteristics are as follows:

**Grangeville sandy loam:** Somewhat poorly drained with very low runoff and moderate rapid permeability.

**Kimberlina sandy loam:** Well drained with medium runoff and moderate permeability.

**Lemoore sandy loam:** Somewhat poorly drained with slow runoff and moderate permeability.

### 3.2 HABITAT TYPES

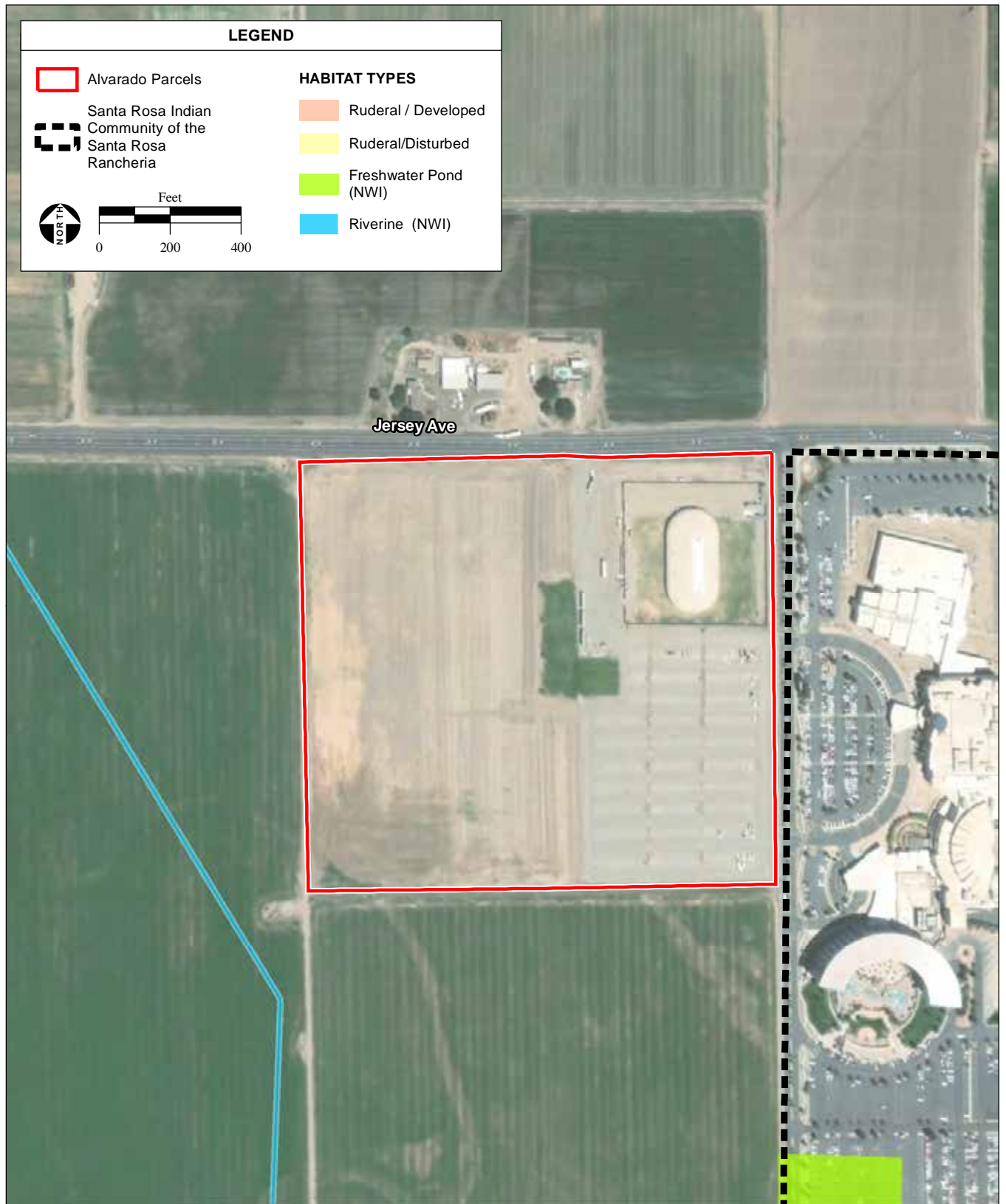
Habitat types identified on the Alvarado Parcels are shown in **Figure 4**. The habitats within the Alvarado Parcels consists of ruderal/disturbed and developed. The parcels adjacent to the Tachi Palace Casino Resort (024-160-024) contain developed habitat with a paved parking lot, roads, and structures. Habitats are not considered sensitive.

#### Ruderal/Disturbed

Approximately 24 acres of the Alvarado Parcels are comprised of ruderal/disturbed habitat (**Figure 4**). This habitat type is continually disturbed by vegetation management practices. Vegetation is dominated by non-native ruderal herbaceous plant species, with areas of bare ground. Vegetation observed on site includes farmer's foxtail (*Hordeum murinum*), common groundsel (*Senecio vulgaris*), wild oat (*avena fatua*), London rocket (*Sisymbrium irio*), and cheeseweed mallow (*Malva parviflora*). Surrounding areas are highly disturbed by development, industrial uses, roadways, and railroad tracks. Due to the high density of ruderal vegetation and the continued disturbance from vegetation management, this habitat type provides low habitat value for special-status species.

#### Developed

Approximately 13 acres of the Alvarado Parcels are comprised of developed habitat. The majority of parcel 024-160-024 is a parking lot with a large structure in the northeast corner. These areas are dominated by open ground with sparse non-native ruderal plant species. Surrounding areas are highly disturbed by development, industrial uses, and roadways. This habitat type provides low habitat value due to disturbance.



SOURCE: DigitalGlobe Aerial Photograph, 6/30/2018; AES, 5/18/2020

Santa Rosa Rancheria Fee-to-Trust Project Alvarado Parcels Biological Memo / 220503 ■

**Figure 4**  
Habitat Types

### 3.3 WETLANDS AND WATERS OF THE U.S.

The NWI database was queried to determine previously mapped wetlands and other waters of the U.S. within the Alvarado Parcels (NWI, 2020; **Figure 4**). No wetland features within the Alvarado Parcels were identified on the query. An agricultural drainage ditch was observed running adjacent to the south border of parcels 024-160-023 and 024-160-024.

### 3.4 SPECIAL-STATUS SPECIES

Data review and special-status species searches identified six special-status plant species and 21 special-status wildlife species with the potential to occur in the region of the Alvarado Parcels. Based on the site-specific habitats and special-status species habitat requirements for each species, the Alvarado Parcels contain suitable habitat for two special-status animal species. The Alvarado Parcels do not contain suitable habitat to support special-status plant species. Species with no potential to occur on the Alvarado Parcels were ruled out based on lack of suitable habitat, soils, elevation, necessary substrate, and negative results during the survey. Special-status species were not observed during the survey. The special-status species with the potential to occur on the Alvarado Parcels are listed below.

#### **Swainson's hawk (*Buteo Swainsoni*)**

Federal Status – None

State Status – Threatened

Swainson's hawks arrive to their breeding grounds in the Central Valley in early March. They often nest peripherally to valley riparian systems as well as utilizing lone trees or groves of trees in agricultural fields. Valley oak, Fremont cottonwood, walnut, and large willow trees, ranging in height from 41 to 82 feet, are the most commonly used nest trees in the Central Valley (CDFG, 2003). Breeding pairs construct nests composed of sticks, leaves, and bark. Eggs are laid from mid- to late-April and are incubated into mid-May when young begin to hatch. Young remain near the nest and depend on the adults for approximately four weeks after fledging until they permanently leave the breeding territory. Nesting occurs from March 1 to August 15. Swainson's hawks feed primarily on small mammals, birds, and insects. Young are fed rodents, rabbits, and reptiles. When not breeding, however, this hawk is atypical because it is almost exclusively insectivorous (England et al.1997). Typical foraging habitat includes annual grasslands, alfalfa, and other dry farm crops that provide suitable habitat for small mammals. Suitable foraging habitat nearby nesting sites is critical for fledgling success. The nearest CNDDDB occurrence was recorded 2.3 miles from the Alvarado Parcels (CDFW, 2020). This species was not observed during the survey.

#### **Tricolored blackbird (*Agelaius tricolor*)**

Federal Status – None

State Status – Threatened

The tricolored blackbird is largely found in the Central Valley, extending into the south coast range from Monterey County south, but populations are also documented from the Peninsular Range near San Diego County and extreme northern California. The TRBL forms the largest breeding colonies of any North American land bird, with a primary breeding season extending from March through early August, although they have been observed to breed from September through November. The largest breeding colonies are associated with freshwater emergent wetlands in rice growing communities. However, they are tied to areas with open accessible water, protected nesting vegetation, and adequate foraging habitat within a few kilometers of their breeding colony.

Typical nesting substrate consists of tule, cattail, willow, and blackberry, although they have been

observed utilizing other species as well. During the winter TRBL form large mixed-flock with other blackbird species wherein they forage in agricultural fields and grasslands. Known from the Central Valley and surrounding foothills, throughout coastal and some inland localities in southern California, and scattered sites in Oregon, western Nevada, central Washington, and western Baja California. The nearest CNDDDB occurrence was recorded 7.8 miles from the Alvarado Parcels (CDFW, 2020). This species was not observed during the survey.

### 3.5 CRITICAL HABITAT

No designated critical habitat occurs on the Alvarado Parcels.

## 4.0 RESULTS

### 4.1 WETLANDS AND WATERS OF THE U.S.

Wetlands and waters of the U.S. are afforded federal protection by the USACE. An agricultural drainage ditch was observed running adjacent to the south border of parcels 024-160-023 and 024-160-024.

### 4.2 SPECIAL-STATUS SPECIES

Based on survey results and the review of regionally occurring special-status species and associated habitat requirements, the Alvarado Parcels may provide suitable foraging habitat for two special-status animal species: Swainson's hawk and tricolored blackbird. Suitable habitat for special-status plant species does not occur on the Alvarado Parcels. No special-status species were observed during the survey.

### 4.3 NESTING MIGRATORY BIRDS

Migratory birds and their nests are protected from "take" by the Migratory Bird Treaty Act (16 U.S.C. 703-711), which makes it unlawful to "...pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess or any part, nest, or egg of any such bird..." (50 CFR 10). No nesting migratory birds were observed during the survey.



## 5.0 REFERENCES

- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, and T.J. Rosatti, Eds, 2012. *The Jepson Manual: Vascular Plants of California*, 2nd edition. University of California Press, Berkeley, CA.
- CDFW, 2002. *General Rare Plant Survey Guidelines*.  
Available online at: [http://www.gsweventcenter.com/Website\\_Refs/20020700.pdf](http://www.gsweventcenter.com/Website_Refs/20020700.pdf)
- CDFW, 2020. CNDDDB RareFind, Spotted Owl Viewer, Version 5.54.13. Biogeographic Data Branch.  
Accessed March 2020
- CDFW, 2020. RareFind 5, California Natural Diversity Database (CNDDDB). Available online:  
<https://map.dfg.ca.gov/rarefind/Login.aspx?ReturnUrl=%2frarefind%2fview%2fRareFind.aspx>.  
Last Updated March, 2020.
- CNPS, 2001. CNPS Botanical Survey Guidelines. Available online at: [https://cnps.org/wp-content/uploads/2018/03/cnps\\_survey\\_guidelines.pdf](https://cnps.org/wp-content/uploads/2018/03/cnps_survey_guidelines.pdf).
- CNPS, 2020. List of special-status species with the potential to occur within the "Stratford" 7.5-minute topographic quad. Available online: <http://www.rareplants.cnps.org/>. Last updated March, 2020
- Hickman, J.C., 1993a. *The Jepson Manual, Higher Plants of California*. University of California Press, Berkeley, California.
- Hickman, J.C., 1993b. *Jepson Online Interchange for California Floristics*. University of California, Berkeley, California. Available online at: <http://ucjeps.berkeley.edu/interchange.html>.
- USFWS, 2020. National Wetlands Inventory. Available online at: [www.fws.gov/wetlands/index.html](http://www.fws.gov/wetlands/index.html).

# **APPENDIX E**

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CULTURAL RESOURCES STUDY

**CULTURAL RESOURCES SURVEY REPORT  
BOUND SEPARATELY\***

**\*THE CULTURAL RESOURCES SURVEY REPORT HAS BEEN BOUND SEPARATELY TO PROTECT POTENTIALLY SENSITIVE INFORMATION ABOUT THE LOCATION AND NATURE OF CULTURAL RESOURCES.**

# **APPENDIX F**

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## FARMLAND CONVERSION IMPACT RATING FORM

**FARMLAND CONVERSION IMPACT RATING**

<b>PART I</b> (To be completed by Federal Agency)		Date Of Land Evaluation Request			
Name of Project		Federal Agency Involved			
Proposed Land Use		County and State			
<b>PART II</b> (To be completed by NRCS)		Date Request Received By NRCS		Person Completing Form:	
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres:            %		Amount of Farmland As Defined in FPPA Acres:            %		
Name of Land Evaluation System Used	Name of State or Local Site Assessment System		Date Land Evaluation Returned by NRCS		
<b>PART III</b> (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly					
B. Total Acres To Be Converted Indirectly					
C. Total Acres In Site					
<b>PART IV</b> (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland					
B. Total Acres Statewide Important or Local Important Farmland					
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted					
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value					
<b>PART V</b> (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)					
<b>PART VI</b> (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		<b>Maximum Points</b>	Site A	Site B	Site C
1. Area In Non-urban Use		(15)			
2. Perimeter In Non-urban Use		(10)			
3. Percent Of Site Being Farmed		(20)			
4. Protection Provided By State and Local Government		(20)			
5. Distance From Urban Built-up Area		(15)			
6. Distance To Urban Support Services		(15)			
7. Size Of Present Farm Unit Compared To Average		(10)			
8. Creation Of Non-farmable Farmland		(10)			
9. Availability Of Farm Support Services		(5)			
10. On-Farm Investments		(20)			
11. Effects Of Conversion On Farm Support Services		(10)			
12. Compatibility With Existing Agricultural Use		(10)			
TOTAL SITE ASSESSMENT POINTS		160			
<b>PART VII</b> (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		100			
Total Site Assessment (From Part VI above or local site assessment)		160			
<b>TOTAL POINTS (Total of above 2 lines)</b>		260			
Site Selected:	Date Of Selection	Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>			
Reason For Selection:					
Name of Federal agency representative completing this form:					Date:

(See Instructions on reverse side)

## STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

- Step 1 - Federal agencies (or Federally funded projects) involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form. For Corridor type projects, the Federal agency shall use form NRCS-CPA-106 in place of form AD-1006. The Land Evaluation and Site Assessment (LESA) process may also be accessed by visiting the FPPA website, <http://fppa.nrcs.usda.gov/lesa/>.
- Step 2 - Originator (Federal Agency) will send one original copy of the form together with appropriate scaled maps indicating location(s) of project site(s), to the Natural Resources Conservation Service (NRCS) local Field Office or USDA Service Center and retain a copy for their files. (NRCS has offices in most counties in the U.S. The USDA Office Information Locator may be found at [http://offices.usda.gov/scripts/ndISAPI.dll/oip\\_public/USA\\_map](http://offices.usda.gov/scripts/ndISAPI.dll/oip_public/USA_map), or the offices can usually be found in the Phone Book under U.S. Government, Department of Agriculture. A list of field offices is available from the NRCS State Conservationist and State Office in each State.)
- Step 3 - NRCS will, within 10 working days after receipt of the completed form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland. (When a site visit or land evaluation system design is needed, NRCS will respond within 30 working days.
- Step 4 - For sites where farmland covered by the FPPA will be converted by the proposed project, NRCS will complete Parts II, IV and V of the form.
- Step 5 - NRCS will return the original copy of the form to the Federal agency involved in the project, and retain a file copy for NRCS records.
- Step 6 - The Federal agency involved in the proposed project will complete Parts VI and VII of the form and return the form with the final selected site to the servicing NRCS office.
- Step 7 - The Federal agency providing financial or technical assistance to the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA.

## INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

*(For Federal Agency)*

**Part I:** When completing the "County and State" questions, list all the local governments that are responsible for local land use controls where site(s) are to be evaluated.

**Part III:** When completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them or other major change in the ability to use the land for agriculture.
2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities planned build out capacity) that will cause a direct conversion.

**Part VI:** Do not complete Part VI using the standard format if a State or Local site assessment is used. With local and NRCS assistance, use the local Land Evaluation and Site Assessment (LESA).

1. Assign the maximum points for each site assessment criterion as shown in § 658.5(b) of CFR. In cases of corridor-type project such as transportation, power line and flood control, criteria #5 and #6 will not apply and will, be weighted zero, however, criterion #8 will be weighed a maximum of 25 points and criterion #11 a maximum of 25 points.
2. Federal agencies may assign relative weights among the 12 site assessment criteria other than those shown on the FPPA rule after submitting individual agency FPPA policy for review and comment to NRCS. In all cases where other weights are assigned, relative adjustments must be made to maintain the maximum total points at 160. For project sites where the total points equal or exceed 160, consider alternative actions, as appropriate, that could reduce adverse impacts (e.g. Alternative Sites, Modifications or Mitigation).

**Part VII:** In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, convert the site assessment points to a base of 160.

Example: if the Site Assessment maximum is 200 points, and the alternative Site "A" is rated 180 points:

$$\frac{\text{Total points assigned Site A}}{\text{Maximum points possible}} = \frac{180}{200} \times 160 = 144 \text{ points for Site A}$$

For assistance in completing this form or FPPA process, contact the local NRCS Field Office or USDA Service Center.

NRCS employees, consult the FPPA Manual and/or policy for additional instructions to complete the AD-1006 form.

# **APPENDIX G**

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PHASE I ENVIRONMENTAL SITE ASSESSMENT



**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT  
SANTA ROSA RANCHERIA FEE-TO-TRUST  
ALVARADO PARCELS**

**MAY 2020**

PREPARED FOR:

Tachi-Yokut Tribe  
Santa Rosa Rancheria  
16835 Alkali Drive  
Lemoore, CA 93245



PREPARED BY:

Analytical Environmental Services  
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Sacramento, CA 95811  
(916) 447-3479  
[www.analyticalcorp.com](http://www.analyticalcorp.com)





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**PHASE I**  
**ENVIRONMENTAL SITE ASSESSMENT**  
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Appendix H	Interviews and Questionnaires

# SECTION 1.0

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## INTRODUCTION

### 1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (ASTM, 2013). The Subject Property consists of two parcels totaling approximately 37 acres located at 17225 Jersey Avenue, Lemoore within Kings County, California. This Phase I ESA addresses the Subject Property and surrounding known sources of contamination within a one-mile radius. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) that could affect future use of the Subject Property.

### 1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term REC refers to the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or material threat of release into structures, the ground, groundwater, or surface water. The term REC is not intended to include de minimis conditions that generally do not present a material risk of harm to public 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. Additionally, the term Historical Recognized Environmental Conditions (HREC) refers to an environmental condition associated with a property, including a past release of any hazardous substance or petroleum product that has since been remediated, which in the past would have been considered a REC; and the term Controlled Recognized Environmental Conditions (CREC) refers to hazardous substance releases that have been partially addressed through remediation but where some contamination remains in place under certain risk-based restrictions or conditions. HRECs and CRECs are included in this Phase I ESA (ASTM, 2013).

### 1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property, nor can it eliminate future hazards. Conformance of this Phase I ESA with ASTM Standard Practice E 1527-13 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historic and current information regarding the Subject Property within the time available, the possibility of undiscovered contamination remains. This Phase I ESA is a best-effort collection and interpretation of available information prepared consistent with the industry standards for completion of a Phase I ESA. This Phase I ESA is based on a site reconnaissance inspection of the Subject Property, a visual reconnaissance inspection of adjacent properties, searches of regulatory agency databases, and interviews with individuals familiar with historic and current uses of the Subject Property. Physical testing of soil or groundwater is not within the scope of this Phase I ESA. Asbestos containing building materials and lead-based paint surveys are also not included. Information obtained for this Phase I ESA complies with current ASTM guidelines.

## 1.4 METHODOLOGY

A variety of data sources were consulted, including site reconnaissance, consultation of relevant regulatory agency databases, and historic review of the Subject Property, further discussed below.

### 1.4.1 HISTORICAL REVIEW

Historic review of the area was conducted to identify RECs within and in the vicinity of the Subject Property. Historic aerial photographs (**Appendix B**) and topographic maps (**Appendix C**) were examined for the presence of aboveground storage tanks (ASTs), industrial buildings, gas station canopies and/or pump islands, and other indications of bulk hazardous material storage within the Subject Property. Sanborn Fire Insurance Maps document historical uses of a property through abbreviations and map symbols that identify commercial, residential, industrial, and other land uses. The Subject Property is unmapped through the Sanborn Library (**Appendix D**). A City Directory was consulted to ascertain previous land uses within and in the vicinity of the Subject Property (**Appendix E**).

### 1.4.2 REGULATORY AGENCY DATABASE SEARCHES

Regulatory agency database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available records from federal, state, and local agency lists consist of the following: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites that manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have USTs and/or ASTs; and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The purpose of regulatory agency database searches is to identify facilities that may have the potential to affect surface and subsurface conditions within the Subject Property. A list of sites on and in the vicinity of the Subject Property is provided in **Appendix A**.

### 1.4.3 SITE RECONNAISSANCE

David Pfuhler and Zachary Carpenter of AES conducted a site reconnaissance and visual inspection of the Subject Property and adjacent areas on March 11, 2020. The purpose of a site reconnaissance inspection is to examine the Subject Property for physical indications of potentially hazardous substances or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, fuel storage tanks, and other obvious signs of hazardous materials involvement. Adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if current uses would affect planned uses of the Subject Property.

## 1.5 DEVIATIONS AND DATA GAPS

ASTM Standard Practice E 1527-13 requires identification of significant data gaps, deviations, and deletions from the ASTM Standard. A significant data gap would be one that affects the ability to identify a REC within the Subject Property or adjacent area. Due to the location of the Subject Property, Sanborn Fire Insurance Maps were not available. However, historical aerial photographs and topographic maps were available for review of previous uses of the Subject Property. Thus, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA.

## 1.6 CREDENTIALS

David Pfuhler prepared this report under professional supervision of David Zweig, P.E., an environmental professional (EP) as defined in ASTM Standard E 1527-13. Resumes are included in **Appendix F**.

# SECTION 2.0

## SITE DESCRIPTION

### 2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located in Kings County, California, as shown in **Figures 1 and 2**. An aerial photograph of the Subject Property with parcel boundaries is provided as **Figure 3**. The Subject Property consists of two parcels (**Table 1**).

**TABLE 1**  
ALVARADO PARCELS

#	Assessor Parcel Number	Acreage
1.	024160023	18.42
2.	024160024	18.61
<b>Approximate Total Acreage</b>		<b>37.03</b>

### 2.2 SITE AND VICINITY CHARACTERISTICS

The Subject Property consists of two parcels (APN: 024-160-023 and 024-160-024). The Subject Property is currently used by the adjacent Tachi Palace Resort and Casino. The Subject Property contains a sprung structure on the north portion of the parcel APN 024-160-024, while the south portion of the parcel is used for overflow parking. The parcel APN 024-160-023 is a vacant lot with ruderal vegetation. The site topography is level with an elevation of approximately 201 feet above mean sea level (amsl). Jersey Avenue provides local access to the Subject Property via State Route 41 (**Figure 3**). Agricultural fields border the Subject Property to the south and west, a small farm is located to the north of these parcels, and the Tachi Palace Hotel and Casino is adjacent to the east.

### 2.3 ENVIRONMENTAL RECORDS SOURCES

This section summarizes sources of environmental records for the Subject Property and adjacent areas.

#### 2.3.1 FEDERAL, STATE, AND LOCAL ENVIRONMENTAL AGENCIES

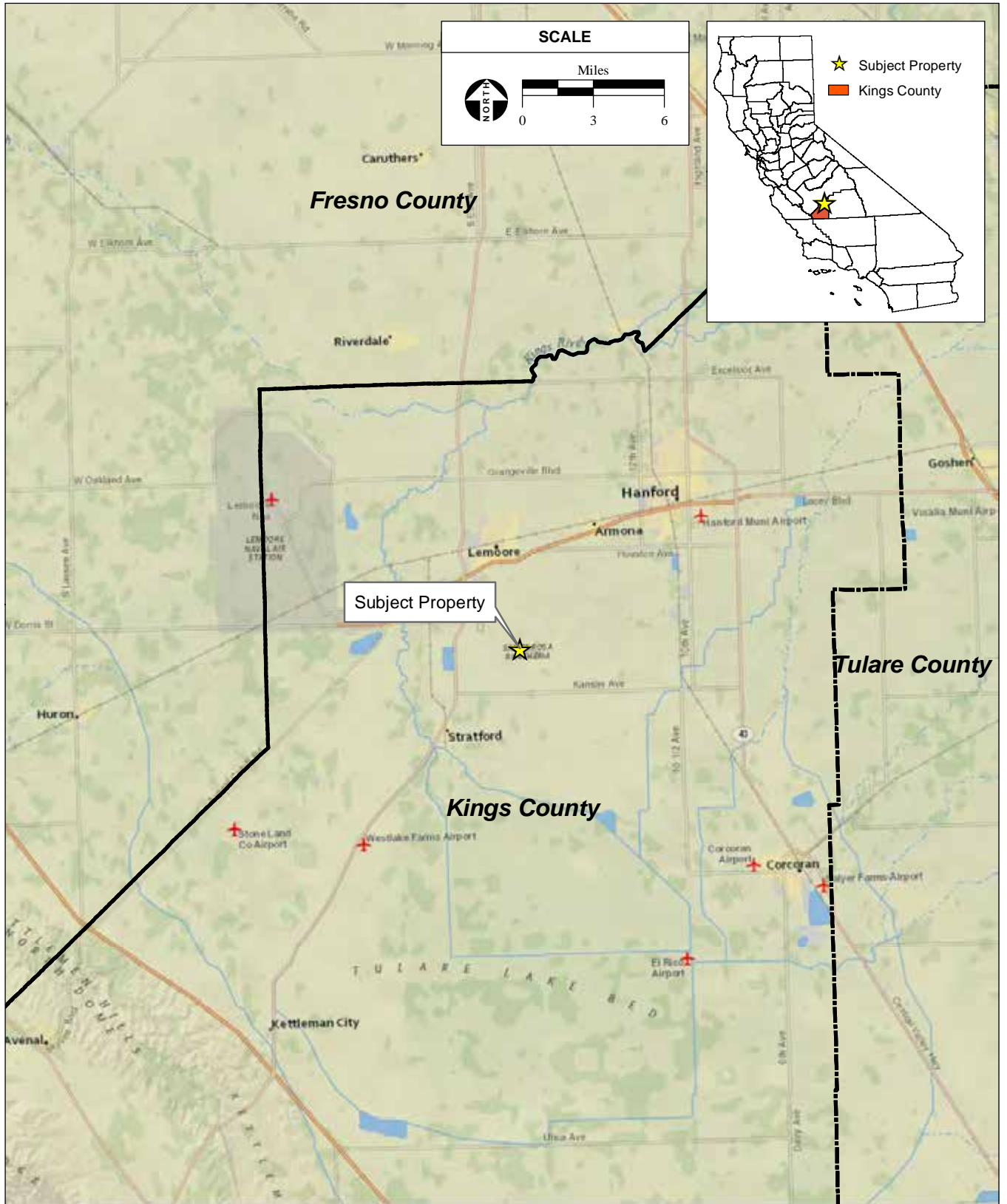
The Environmental Database Research, Inc. (EDR) radius map report (**Appendix A**), the State of California’s State Water Resources Control Board (SWRCB) GeoTracker database (GeoTracker), and the California Department of Toxic Substances Control (DTSC) EnviroStor database (EnviroStor) provided search and documentation of local hazardous materials data.

#### 2.3.2 COUNTY PLANNING DIVISION

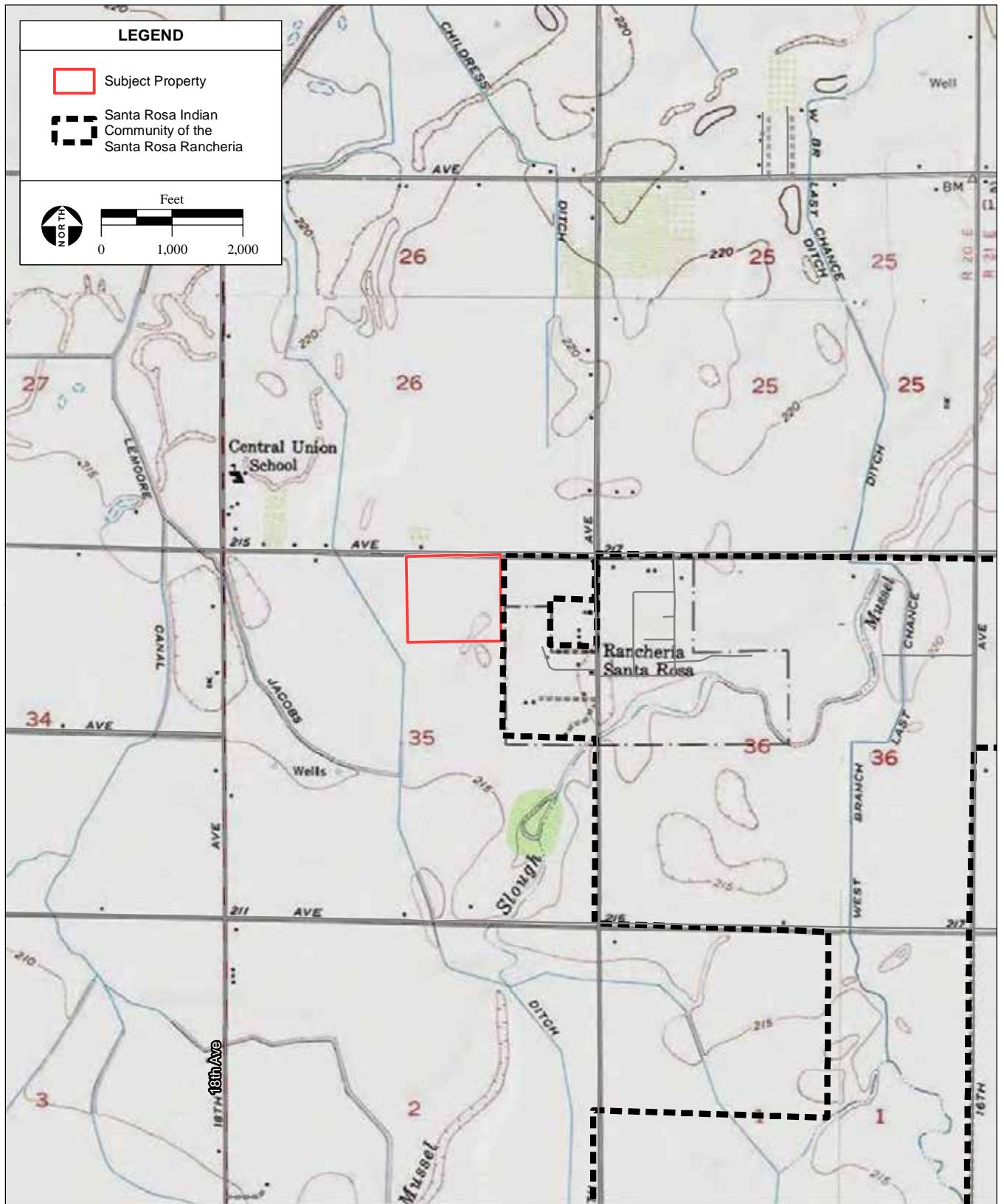
Land use and zoning designations of the Subject Property were reviewed through information provided by Kings County. The Subject Property has a land use designation of General Agriculture 20 acres, as defined by the Kings County General Plan 2035 (Kings County, 2010). The Subject Property is not under a Williamson Act contract (Kings County, 2019).

#### 2.3.3 ELECTRIC AND GAS UTILITIES COMPANY

Pacific Gas and Electric (PG&E) provides gas and electrical utilities in the vicinity of the Subject Property (California Energy Commission, 2015). An overhead electrical utility line runs in an east-west direction along Jersey Ave. on the northern border of the western parcels.



**Figure 1**  
Regional Location

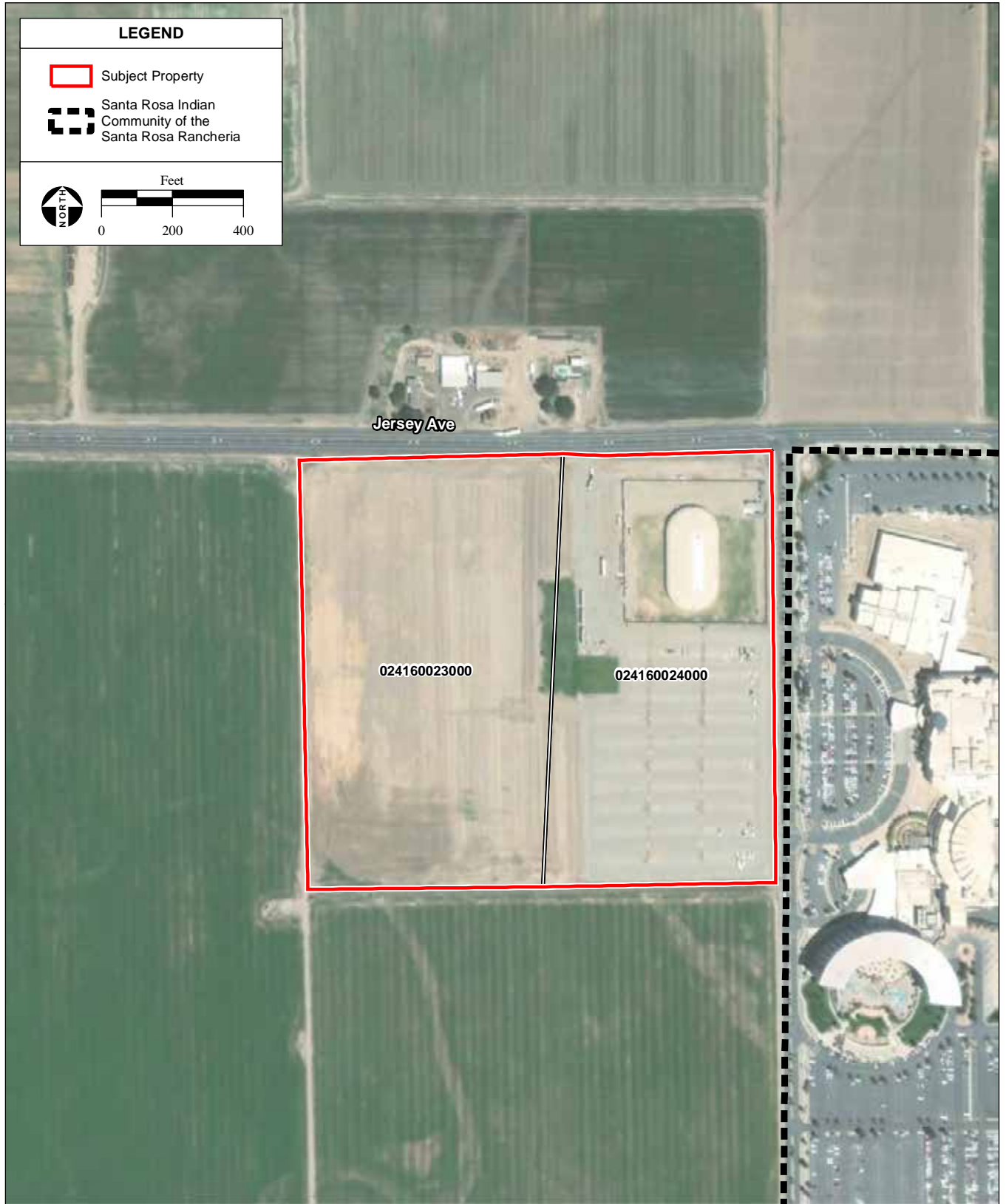


Santa Rosa Rancheria Alvarado Parcels Phase 1 ESA / 220503

SOURCE: "Stratford, CA" USGS 7.5 Minute Topographic Quadrangles, T19S R20E Section 35, Mt. Diablo Baseline & Meridian; AES, 4/6/2020

**Figure 2**  
Site and Vicinity





SOURCE: DigitalGlobe Aerial Photograph, 6/30/2018; AES, 4/20/2020

Santa Rosa Rancheria Alvarado Parcels Phase 1 ESA / 220503

**Figure 3**  
Aerial Photograph

## 2.4 HYDROLOGY

The Subject Property is within the Tulare Lake Hydrologic Basin within the South Valley Floor Hydrologic Unit and Hanford Lemoore Hydrologic Area (Caltrans, 2019).

## 2.5 GEOLOGY AND SOIL

The rock stratigraphic unit of the Subject Property is of the Cenozoic era, Quaternary system, and Quaternary rocks series (**Appendix A**). The dominant soil within the Subject Property is Grangeville fine sandy loam, saline-alkali, partially drained, 0 to 2 percent slopes. This soil type is listed as Farmland of Statewide Importance. This somewhat poorly drained fine sandy loam has a moderately deep water table and a moderate infiltration rate.

## 2.6 CURRENT USES OF THE SUBJECT PROPERTY

The Subject Property is currently utilized for events in the sprung structure, and as overflow parking for the Tachi Palace Resort that is adjacent to the Subject Property to the east. Surrounding properties to the Subject Property are primarily agricultural aside from the resort. There is a drainage ditch to the south of the Subject Property. Site photographs of the Subject Property are shown in **Figure 4**.

## 2.7 HISTORIC USES OF THE SUBJECT PROPERTY

### 2.7.1 AERIAL PHOTOGRAPHS

Aerial photographs (**Appendix B**) were reviewed for information regarding historic and current uses within and in the vicinity of the Subject Property. The following aerial photographs were available for review at a scale of 1" = 500': 1937, 1940, 1950, 1974, 1976, 1984, 1994, 2006, 2009, 2012, and 2016. Aerial photographs were of varying clarity. From the first available aerial in 1937, the Subject Property and surrounding land uses appear to be agricultural, rural residential and undeveloped open space. Increased rural residential development with a small community development to the east of the Subject Property can be seen starting in the 1974 aerials. Agricultural operations that surround the Subject Property are well defined within the 1984 aerial and agricultural development through the riparian corridor to the south is apparent. The 1984 aerial image displays the first development of the Santa Rosa Rancheria property. Continued development of the area and five well defined ponds are visible south of the Subject Property. The full development of the Tachi Palace Resort is displayed in the 2006 aerial, the Subject Property continues to be agriculture on the west parcels and a vacant lot on the east. There is no change to the Subject Property from the 2006 to the 2016 aerial photographs.

### 2.7.2 TOPOGRAPHIC MAPS

United States Geological Survey (USGS) topographic maps (**Appendix C**) were reviewed for information regarding historic and current uses within and near the Subject Property. The 1926, 1927, 1929, 1954, 2012 Stratford, Guernsey, Lemoore, and Hanford; the 1940 and 1942 Stratford and Corcoran; and the 1943 and the 1950 Stratford topographic quadrangles were available for review. Topographic maps were of varying clarity. From the first available topographic map in 1926, 1927, and 1929 maps show the Subject Property and adjacent Santa Rosa Rancheria surrounded by agricultural land and undeveloped open space. Little development or change to the area is apparent in the area from the first maps to the 1954 topographic map. A greater road network is shown in the 2012 topographic map. There is little change in land use of the area apparent in this map.

## 2.8 SANBORN FIRE INSURANCE MAPS

The Subject Property is unmapped through the Sanborn Library (**Appendix D**).

## 2.9 OTHER PHYSICAL SETTING SOURCES

### 2.9.1 NATIONAL WETLANDS INVENTORY MAP

No waterbodies as classified by the United States Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) occur within the Subject Property (USFWS, 2019).

### 2.9.2 FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP

The Subject Property's western parcels (024-160-023 and 024-160-024) are located within Flood Zone X, which is identified by the Federal Emergency Management Agency (FEMA) as an area determined to be outside the 0.2 percent annual chance floodplain. A copy of the FEMA Flood Insurance Rate Map (FIRM) is included in **Appendix G**.

# SECTION 3.0

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## SITE RECONNAISSANCE AND INTERVIEWS

### 3.1 OBJECTIVE

The objective of the site reconnaissance was to identify current or historic hazardous materials involvement on or in the vicinity of the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of hazardous materials or petroleum products that indicate existing release, past release, or a threat of release into structures on the Subject Property, soil, or groundwater. Signs of possible hazardous materials involvement include indications of USTs; stained soils and/or unusual odors; indications of excavation or soil removal including patched asphalt and large debris piles; and other obvious indicators.

### 3.2 FINDINGS

**Figures 4** includes photographs of site conditions at the time of the site visit. Notable features and environmental conditions are listed below.

- Generator set outside of event area fence (**Photo 1**)
- Drainage ditch adjacent to the south of the property (**Photo 2**)
- Open parking lot to serve resort overflow, with sprung structure in the distance (**Photo 3**)
- Ruderal field of APN 024-160-023 (**Photo 4**)
- Ruderal area west of the sprung structure APN 024-160-024 (**Photo 5**)

The Subject Property is currently has a sprung structure on the north portion of parcel APN 024-160-024 with the southern portion serving as overflow parking and fenced in event area to the resort. Parcel APN 024-160-023 is currently a ruderal disturbed lot with non-native grasses growing throughout. No indications of hazardous materials releases were observed.

### 3.3 ADJACENT PROPERTIES

A survey of adjacent properties was conducted to the extent possible without trespassing during the March 11, 2020 site visit. The purpose was to identify land uses of adjacent properties and determine if the current land use of the adjacent properties would affect the current and/or future planned use of the Subject Property. Adjacent land uses are described below.

- North: Residential ranch with agricultural fields
- South: Drainage ditch immediately adjacent and agricultural fields
- West: Agricultural fields
- East: Tachi Palace Resort

### 3.4 INTERVIEWS AND QUESTIONNAIRES

Standard client and property owner interviews and questionnaires are included as **Appendix H**. These do not indicate known hazardous materials issues associated with the Subject Property.



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5

# SECTION 4.0

## RECORDS REVIEW

### 4.1 REGULATORY AGENCY DATABASE SEARCHES

The regulatory agency database search was conducted by EDR, a computerized search firm that uses a geographic information system to plot locations of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination up to a 1.0-mile radius from a point roughly equivalent to the center of the Subject Property. Although a site may be listed within a regulatory agency database search, the listed site may not currently be contaminated or affect the environmental quality of the Subject Property and therefore be considered a REC. The regulatory agency database search is only as accurate as the data and date the data entered into the regulatory agency-maintained database was last updated. If not reported to the appropriate regulatory agency, installation of USTs or hazardous materials releases would not be listed on the regulatory agency databases searched. The complete list of reviewed regulatory agency databases is provided in the Map Finding Summary section of the EDR radius map report included as **Appendix A** and is summarized in **Table 2**. In addition, the information on past and/or current hazardous material involvement relating to adjacent properties is summarized in **Section 4.2.2**.

**TABLE 2**  
ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY LISTED	SITES LISTED
United States Environmental Protection Agency (USEPA) National Priorities List (NPL)	1.00 mile	No	0
USEPA Proposed NPL	1.00 mile	No	0
USEPA NPL Liens	TP	No	0
USEPA Delisted NPL	1.00 mile	No	0
USEPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Federal Facility	0.50 mile	No	0
USEPA CERCLIS Superfund Enterprise Management System (SEMS)	0.50 mile	No	0
USEPA CERCLIS No Further Remedial Action Planned (NFRAP) SEMS – Archive	0.50 mile	No	0
USEPA Resource Conservation and Recovery Act (RCRA) Corrective Action Reports (CORRACTS)	1.00 mile	No	0
USEPA RCRA non-CORRACTS Treatment, Storage, and Disposal Facilities (TSDF)	0.50 mile	No	0
USEPA RCRA Large Quantity Generators (LQG)	0.25 mile	No	0
USEPA RCRA Small Quantity Generators (SQG)	0.25 mile	No	0
USEPA RCRA Very Small Quantity Generators (VSQG)	0.25 mile	No	0
USEPA Land Use Control Information System (LUCIS)	0.50 mile	No	0
USEPA Engineering Controls Sites List (US ENG CONTROLS)	0.50 mile	No	0
USEPA Institutional Controls Sites List (US INST CONTROL)	0.50 mile	No	0
United States Coast Guard (USCG) Emergency Response Notification System (ERNS)	TP	No	0

REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY LISTED	SITES LISTED
California Department of Toxic Substance and Control (DTSC) Response Sites (RESPONSE)	1.00 mile	No	0
EnviroStor (ENVIROSTOR)	1.00 mile	No	0
CA State Waste Facility/Landfill (SWF/LF)	0.50 mile	No	0
CA Leaking Underground Storage Tanks (LUST)	0.50 mile	No	0
Indian LUST	0.50 mile	No	0
CA SLIC	0.50 mile	No	0
Federal Emergency Management Agency (FEMA) Underground Storage Tank (UST)	0.25 mile	No	0
CA UST	0.25 mile	No	0
CA Aboveground Storage Tank (AST)	0.25 mile	No	0
Indian UST	0.25 mile	No	1
Indian Voluntary Cleanup Program (VCP)	0.50 mile	No	0
CA VCP	0.50 mile	No	0
CA Brownfields	0.50 mile	No	0
USEPA Brownfields	0.50 mile	No	0
CA Waste Management Unit Database (WMUDS/SWAT)	0.50 mile	No	0
CA State Recycling Facilities (SWRCY)	0.50 mile	No	0
CA Registered Waste Tire Haulers Listing (HAULERS)	TP	No	0
Indian Open Dump Inventory (ODI)	0.50 mile	No	0
USEPA Debris Region 9	0.50 mile	No	0
USEPA ODI	0.50 mile	No	0
IHS Open Dumps	0.50 mile	No	0
US Historic Clandestine Laboratory (US HIST CDL)	TP	No	0
CA Historical Calsites Database (HIST Cal-Sites)	1.00 mile	No	0
CA School Property Evaluation Program (SCH)	0.25 mile	No	0
CA CDL	TP	No	0
Toxic Pit Cleanup Act Sites (Toxic Pits)	1.00 mile	No	0
CERS HAZ WASTE	0.25 mile	No	0
US CDL	TP	No	0
PFAS	0.5 mile	No	0
CA State Water Resources Control Board (SWRCB) Underground Storage Tank Division Registered UST List (SWEEPS UST)	0.25 mile	No	0
CA Historical Registered UST (HIST UST)	0.25 mile	No	0
CERS Tanks	0.25 mile	No	0
CA Facility Inventory Database (FID UST)	0.25 mile	No	0
CERCLA LIENS	TP	No	0
CERCLA LIENS 2	TP	No	0
California Deed Restriction Listing (DEED)	0.50 mile	No	0
Hazardous Material Information Reporting System (HMIRS)	TP	No	0
CA HMIRS (CHMIRS)	TP	No	0
CA Land Disposal Sites Listing (LDS)	TP	No	0
CA Military Cleanup Sites Listing (MCS)	TP	No	0

REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY LISTED	SITES LISTED
CA SPILLS 90	TP	No	0
USEPA RCRA Non-Generators (NonGen) / No Longer Regulated (NLR)	0.25 mile	No	0
Formerly Used Defense Sites (FUDS)	1.00 mile	No	0
Department of Defense (DOD)	1.00 mile	No	0
State Coalition for Remediation of Drycleaners (SCRD DRYCLEANERS)	0.50 mile	No	0
US Financial Assurance Data (US FIN ASSUR)	TP	No	0
USEPA Watch List	TP	No	0
2020 Corrective Action (2020 COR ACTION)	0.25 mile	No	0
Toxic Substances Control Act (TSCA)	TP	No	0
Toxic Chemical Release Index System (TRIS)	TP	No	0
Section 7 Tracking System (SSTS)	TP	No	0
Records of Decision (ROD)	1.00 mile	No	0
Risk Management Plans (RMP)	TP	No	0
RCRA Administrative Action Tracking System (RAATS)	TP	No	0
Potentially Responsible Parties (PRP)	TP	No	0
Polychlorinated Biphenyl (PCB) Activity Database System (PADS)	TP	No	0
Integrated Compliance Information System (ICIS)	TP	No	0
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) / TSCA Tracking System (FTTS)	TP	No	0
Material Licensing Tracking System (MLTS)	TP	No	0
Steam-Electric Plant Operation Data (COAL ASH DOE)	TP	No	0
Coal Combustion Residues Surface Impoundments (COAL ASH USEPA)	0.50 mile	No	0
PCB Transformer Registration Database (PCB TRANSFORMER)	TP	No	0
Radiation Information Database (RADINFO)	TP	No	0
FTTS Administrative Case Listing (HIST FTTS)	TP	No	0
Incident and Accident Data (DOT OPS)	TP	No	0
Superfund (CERCLA) Consent Decrees (CONSENT)	1.00 mile	No	0
Indian Reservations (INDIAN RESERV)	TP	No	0
Formerly Utilized Sites Remedial Action Program (FUSRAP)	1.00 mile	No	0
Uranium Mill Tailings Sites (UMTRA)	0.50 mile	No	0
Lead Smelters	TP	No	0
Aerometric Information Retrieval System Facility Subsystem (US AIRS)	TP	No	0
Mines Master Index File (US MINES)	0.25 mile	No	0
Abandoned Mines	TP	No	0
USEPA Facility Index System (FINDS)	TP	No	0
Unexploded Ordnance Sites (UXO)	1.00 mile	No	0
Docket Hazardous Waste Compliance (DOCKET HWC)	TP	No	0
Enforcement and Compliance History Online (ECHO)	TP	No	0
USEPA Fuels Program (FUELS PROGRAM)	0.25 mile	No	0



REGULATORY AGENCY DATABASE	MINIMUM SEARCH DISTANCE	PROPERTY LISTED	SITES LISTED
CA Department of Health Services (DHS) Bond Expenditure Plan (CA BOND EXP. PLAN)	1.00 mile	No	0
CA Cortese Hazardous Waste and Substances List (Cortese)	0.50 mile	No	0
CA Certified Unified Program Agency (CUPA) Listings	0.25 mile	No	0
CA Dry Cleaners	0.25 mile	No	0
California Integrated Water Quality System (CIWQS)	TP	No	0
CA Emissions Inventory Data (EMI)	TP	No	0
CA Enforcement Action Listing (ENF)	TP	No	0
CA FIN ASSUR	TP	No	0
CA Facility and Manifest Data (HAZNET)	TP	No	0
ICE	TP	No	0
HIST CORTESE	0.50 mile	No	0
CA EnviroStor Permitted Facilities Listing (HWP)	1.00 mile	No	0
CA Registered Hazardous Waste Transporter Database (HWT)	0.25 mile	No	0
CA Mines Site Location Listing (MINES)	TP	No	0
CA Medical Waste Management Program Listing (MMWP)	0.25 mile	No	0
CA NPDES Permits Listing (NPDES)	TP	No	0
CA Pesticide Regulation Licenses Listing (PEST LIC)	TP	No	0
CA Certified Processors Database (PROC)	0.50 mile	No	0
CA SWRCB Proposition 65 Records (Notify 65)	1.00 mile	No	0
CERS	TP	No	0
CA UIC Listing (UIC)	TP	No	0
CA Oil Wastewater Pits Listing (WASTEWATER PITS)	0.50 mile	No	0
CA Waste Discharge System (WDS)	TP	No	0
CA Well Investigation Program Case List (WIP)	0.25 mile	No	0
EDR Proprietary Manufactured Gas Plants (EDR MGP)	1.00 mile	No	0
EDR Hist Auto	0.125 mile	No	0
EDR Exclusive Historical Cleaners (EDR Hist Cleaner)	0.125 mile	No	0
Recovered Government Archive Solid Waste Facilities List (RGA LF)	TP	No	0
RGA LUST	TP	No	0
<b>TOTAL</b>			<b>1</b>
Source: <b>Appendix A</b> TP = Target Property Sites may be listed in more than one database			

## 4.2 HAZARDOUS MATERIALS INVOLVEMENT

The EDR radius map report included in **Appendix A** was reviewed to determine whether the Subject Property and adjacent properties are listed on regulatory agency databases and contain RECs that would affect the environmental quality of the Subject Property. Hazardous materials involvement within the Subject Property and adjacent properties is discussed below.

#### 4.2.1 SUBJECT PROPERTY

The Subject Property was not listed in the databases reviewed through the EDR radius map report included in **Appendix A**. There are currently no open hazardous materials cases or registered bulk storage tanks that hold materials posing a significant environmental risk on the Subject Property.

#### 4.2.2 ADJACENT PROPERTIES

A database listing for the Yokut Gas station located 0.25 miles to the east of the Subject Property indicates the presence of an underground storage tank. However, a site listed on a regulatory agency database does not necessarily mean a hazardous materials release occurred. The site listing on the adjacent property is a registered listing for the gas station's underground storage tank and is listed as INDIAN UST. It does not pose a significant risk to the environmental quality of the Subject Property.

# SECTION 5.0

---

## FINDINGS AND CONCLUSIONS

### 5.1 FINDINGS

Based on information gathered while conducting this Phase I ESA, the following environmental findings are provided:

- The Subject Property has a sprung structure in the northeast corner with over flow parking to the south. The west half of the property is a ruderal disturbed vacant lot with non-native vegetation.
- During the site reconnaissance inspection, there was no visible evidence of stained soils or hazardous materials releases observed within the Subject Property.
- No RECs have been identified within the Subject Property.
- Surrounding properties listed in the EDR radius map report have been reviewed and no RECs have been identified. There is no significant threat to the environmental integrity of the Subject Property.

### 5.2 CONCLUSIONS AND RECOMMENDATIONS

This Phase I ESA has been prepared in conformance with the BIA guidelines (602 DM Chapter 2) and the ASTM Standard Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on the site conditions during the March 11, 2020 site reconnaissance inspection and information in the EDR report (**Appendices A, B, C, D, and E**), no RECs, CRECs or HRECs were identified on or in the immediate vicinity of the Subject Property that would be likely to pose a significant impact to the environmental integrity of the Subject Property. Physical testing of soil or groundwater is not recommended at this time.

# SECTION 6.0

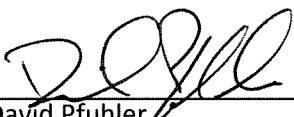
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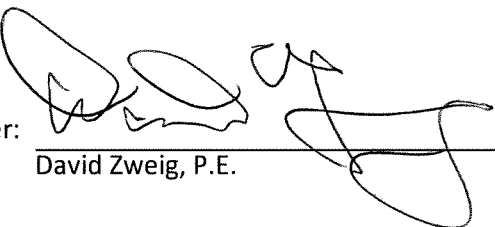
## REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. David Pfuhler, Site Assessor, assembled this report under the professional supervision of David Zweig, Professional Engineer (P.E.), who qualifies as an environmental professional (EP) as defined in ASTM Standard E1527-13, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. The signatures of David Pfuhler and David Zweig, P.E. appear below and their resumes are included in **Appendix F**.

### REPORT PREPARATION

Analytical Environmental Services  
1801 7th Street, Suite 100  
Sacramento, CA 95811

Site Assessor:   
David Pfuhler

Senior Reviewer:   
David Zweig, P.E.



## REFERENCES

- American Society for Testing and Materials (ASTM), 2013. Practice E1527-13: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process."
- California Department of Transportation (Caltrans). 2019. Water Quality Planning Tool. Available online at: <http://svctenvims.dot.ca.gov/wqpt/wqpt.aspx>. Accessed February 20, 2020.
- California Energy Commission, 2015a. California Electric Utility Service Areas. Available online at: <https://ww2.energy.ca.gov/maps/>. Accessed February 20, 2020.
- California Energy Commission, 2015b. California Natural Gas Utility Service Areas. Available online at: <https://ww2.energy.ca.gov/maps/>. Accessed February 20, 2020.
- Kings County, 2010. Kings County General Plan 2035. Adopted January 2010. Available online at: <https://www.countyofkings.com/home/showdocument?id=3106> Accessed March 6, 2020
- Kings County, 2013. Agricultural preserves 2013 Williamson Act & Farmland Security Zone Properties. Available online at: <https://www.countyofkings.com/home/showdocument?id=3168> . Accessed March 6, 2020.
- Natural Resources Conservation Service (NRCS), 2019. Custom Soil Resource Report for Sonoma County, California. Available online at: <https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed March 26, 2020.
- United States Fish and Wildlife Service (USFWS), 2019. National Wetlands Inventory Wetlands Mapper. Available online at: <https://www.fws.gov/wetlands/data/mapper.html>. Accessed March 26, 2020.

# ***APPENDICES***

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# ***APPENDIX A***

---

*EDR RADIUS MAP REPORT WITH GEOCHECK*

**Jersey Avenue**

16188 17TH AVE

LEMOORE, CA 93245

Inquiry Number: 6010660.2s

March 16, 2020

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



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***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

### Disclaimer - Copyright and Trademark Notice

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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 (E 1527-13), 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

16188 17TH AVE  
LEMOORE, CA 93245

#### COORDINATES

Latitude (North): 36.2371890 - 36° 14' 13.88"  
Longitude (West): 119.7639010 - 119° 45' 50.04"  
Universal Tranverse Mercator: Zone 11  
UTM X (Meters): 251609.0  
UTM Y (Meters): 4013598.8  
Elevation: 219 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5603218 STRATFORD, CA
Version Date:	2012
Northeast Map:	5619114 HANFORD, CA
Version Date:	2012
Southeast Map:	5603180 GUERNSEY, CA
Version Date:	2012
Northwest Map:	5619120 LEMOORE, CA
Version Date:	2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140627, 20140619, 20140618
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:  
16188 17TH AVE  
LEMOORE, CA 93245

Click on Map ID to see full detail.

<u>MAP ID</u>	<u>SITE NAME</u>	<u>ADDRESS</u>	<u>DATABASE ACRONYMS</u>	<u>RELATIVE ELEVATION</u>	<u>DIST (ft. &amp; mi.)</u> <u>DIRECTION</u>
1	TACHI MARKET	17051 JERSEY AVENUE	INDIAN UST	Higher	1031, 0.195, North

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## 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

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity 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

## EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

### ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR..... EnviroStor Database

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Information System

### ***State and tribal leaking storage tank lists***

LUST..... Geotracker's Leaking Underground Fuel Tank Report  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
CPS-SLIC..... Statewide SLIC Cases

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing  
UST..... Active UST Facilities  
AST..... Aboveground Petroleum Storage Tank Facilities

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Cleanup Program Properties  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Considered Brownfields 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

## EXECUTIVE SUMMARY

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  
CERS HAZ WASTE..... CERS HAZ WASTE  
US CDL..... National Clandestine Laboratory Register  
PFAS..... PFAS Contamination Site Location Listing

### **Local Lists of Registered Storage Tanks**

SWEEPS UST..... SWEEPS UST Listing  
HIST UST..... Hazardous Substance Storage Container Database  
CERS TANKS..... California Environmental Reporting System (CERS) 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**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
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  
ROD..... Records Of Decision  
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

## EXECUTIVE SUMMARY

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
ECHO.....	Enforcement & Compliance History Information
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
DRYCLEANERS.....	Cleaner Facilities
EMI.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
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)
HWTS.....	Hazardous Waste Tracking System
MINES MRDS.....	Mineral Resources Data System

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

## EXECUTIVE SUMMARY

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.

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

#### ***State and tribal registered storage tank lists***

INDIAN UST: A listing of underground storage tank locations on Indian Land.

A review of the INDIAN UST list, as provided by EDR, has revealed that there is 1 INDIAN UST site within approximately 0.25 miles of the target property.

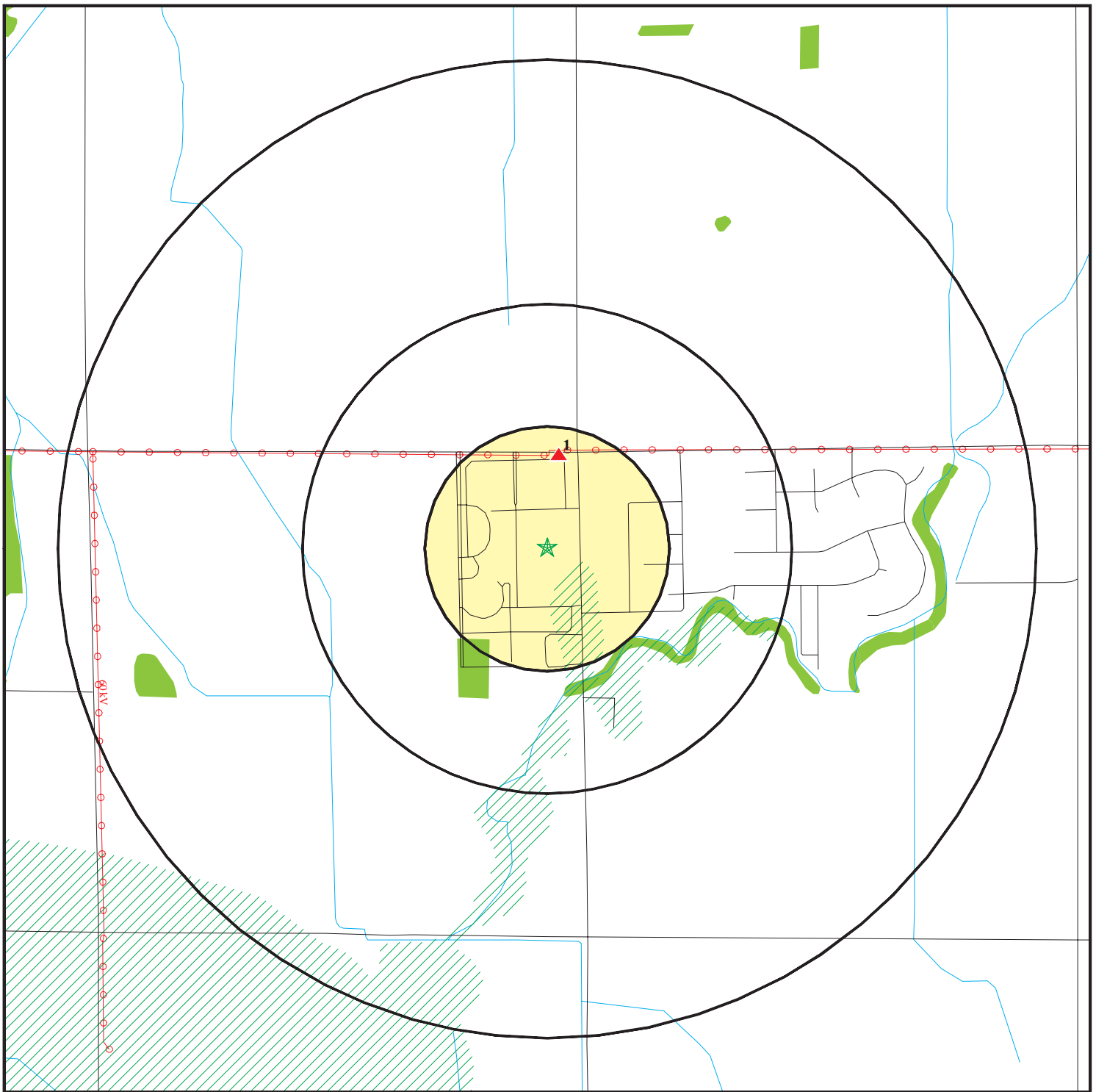
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TACHI MARKET Database: INDIAN UST R9, Date of Government Version: 10/04/2019 Alternate Facility ID: SAR001 Tank Status: Currently in Use	17051 JERSEY AVENUE	N 1/8 - 1/4 (0.195 mi.)	1	9



## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 6010660.2S



- ★ 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

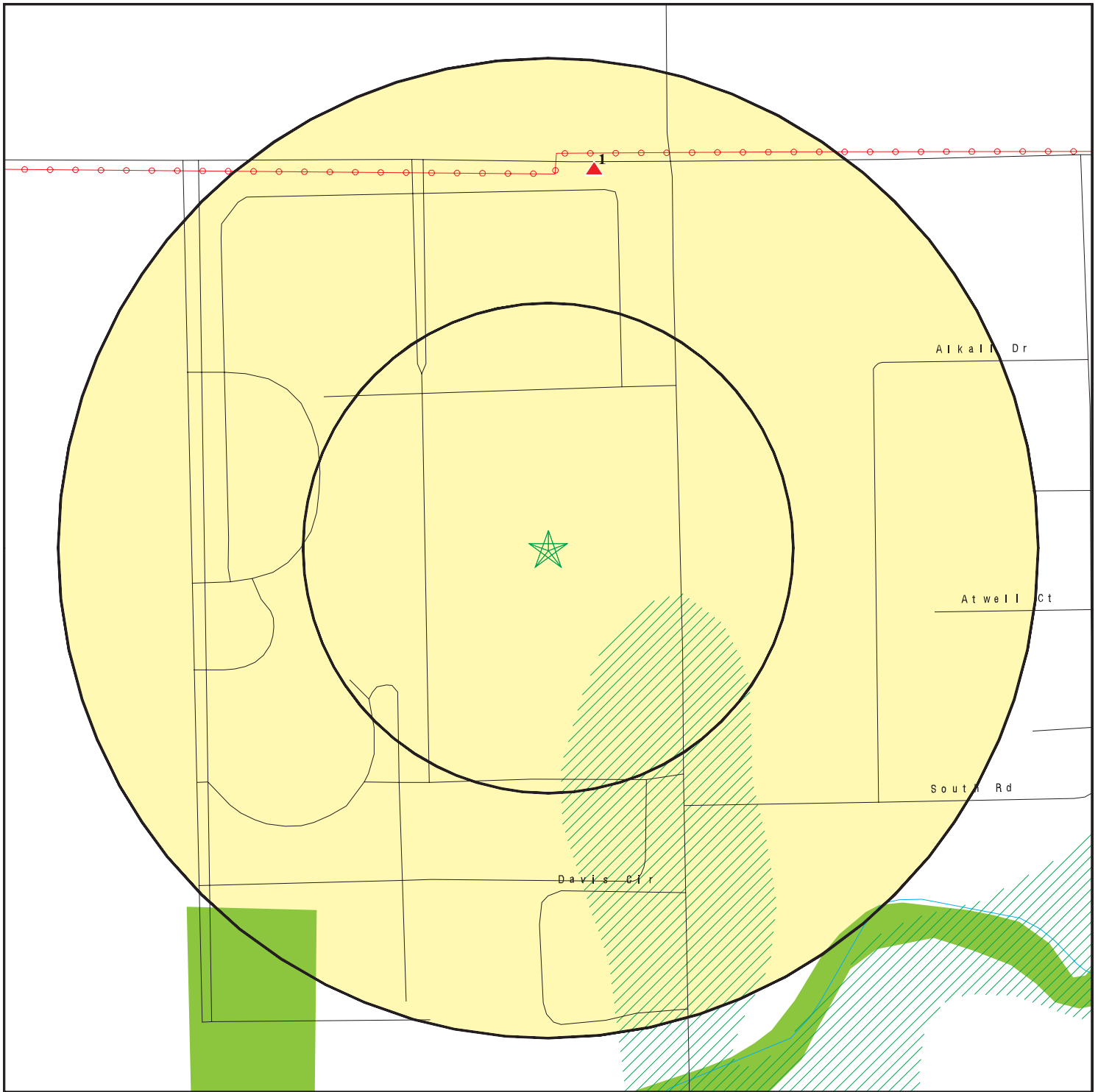
- 0 1/4 1/2 1 Miles
- ☒ Indian Reservations BIA
- ⚡ Power transmission lines
- ▨ Special Flood Hazard Area (1%)
- ▨ 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- ☒ Areas of Concern

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: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE CA 93245  
 LAT/LONG: 36.237189 / 119.763901

CLIENT: ANALYTICAL ENVIRONMENTAL SERVICES  
 CONTACT: David Pfuhrer  
 INQUIRY #: 6010660.2s  
 DATE: March 16, 2020 1:08 pm

# DETAIL MAP - 6010660.2S



- 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

- 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: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE CA 93245  
 LAT/LONG: 36.237189 / 119.763901

CLIENT: ANALYTICAL ENVIRONMENTAL SERVICES  
 CONTACT: David Pfuhrer  
 INQUIRY #: 6010660.2s  
 DATE: March 16, 2020 1:08 pm

## 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
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL RESPONSE</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i></b>								
ENVIROSTOR	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	1	NR	NR	NR	1
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	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
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	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	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
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	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	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	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
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	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals -- 0 0 1 0 0 0 0 1

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**1** **TACHI MARKET** **INDIAN UST** **1024091498**  
**North** **17051 JERSEY AVENUE** **N/A**  
**1/8-1/4** **LEMOORE, CA 93245**

**0.195 mi.**  
**1031 ft.**

**Relative:**  
**Higher**

**Actual:**  
**221 ft.**

Indian UST:  
 Region: 9  
 Alternate Facility ID: SAR001  
 Facility Name2: Santa Rosa Rancheria casino gas/convenience store.  
 Tank ID: 5  
 Tank Status: Currently in Use  
 Status Date: 9-Dec-16  
 Substance Description: -  
 Tribe: Santa Rosa Rancheria  
 Name: TACHI MARKET  
 Address: 17051 JERSEY AVENUE  
 City,State,Zip: LEMOORE, CA 93245  
 Facility County: Not reported  
 Facility Telephone: 589-925-2554  
 Overfill installed: True  
 Spill installed: True  
 Date installed: 12/9/2016  
 Federally Regulated Tank: True  
 Latitude: Not reported  
 Longitude: Not reported

Region: 9  
 Alternate Facility ID: SAR001  
 Facility Name2: Santa Rosa Rancheria casino gas/convenience store.  
 Tank ID: 1  
 Tank Status: Currently in Use  
 Status Date: 9-Dec-16  
 Substance Description: -  
 Tribe: Santa Rosa Rancheria  
 Name: TACHI MARKET  
 Address: 17051 JERSEY AVENUE  
 City,State,Zip: LEMOORE, CA 93245  
 Facility County: Not reported  
 Facility Telephone: 589-925-2554  
 Overfill installed: Not reported  
 Spill installed: Not reported  
 Date installed: 12/9/2016  
 Federally Regulated Tank: True  
 Latitude: Not reported  
 Longitude: Not reported

Region: 9  
 Alternate Facility ID: SAR001  
 Facility Name2: Santa Rosa Rancheria casino gas/convenience store.  
 Tank ID: 2  
 Tank Status: Currently in Use  
 Status Date: 9-Dec-16  
 Substance Description: -  
 Tribe: Santa Rosa Rancheria  
 Name: TACHI MARKET  
 Address: 17051 JERSEY AVENUE  
 City,State,Zip: LEMOORE, CA 93245  
 Facility County: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TACHI MARKET (Continued)**

**1024091498**

Facility Telephone:	589-925-2554
Overfill installed:	True
Spill installed:	True
Date installed:	12/9/2016
Federally Regulated Tank:	True
Latitude:	Not reported
Longitude:	Not reported
Region:	9
Alternate Facility ID:	SAR001
Facility Name2:	Santa Rosa Rancheria casino gas/convenience store.
Tank ID:	3
Tank Status:	Currently in Use
Status Date:	9-Dec-16
Substance Description:	-
Tribe:	Santa Rosa Rancheria
Name:	TACHI MARKET
Address:	17051 JERSEY AVENUE
City,State,Zip:	LEMOORE, CA 93245
Facility County:	Not reported
Facility Telephone:	589-925-2554
Overfill installed:	True
Spill installed:	True
Date installed:	12/9/2016
Federally Regulated Tank:	True
Latitude:	Not reported
Longitude:	Not reported
Region:	9
Alternate Facility ID:	SAR001
Facility Name2:	Santa Rosa Rancheria casino gas/convenience store.
Tank ID:	4
Tank Status:	Currently in Use
Status Date:	9-Dec-16
Substance Description:	-
Tribe:	Santa Rosa Rancheria
Name:	TACHI MARKET
Address:	17051 JERSEY AVENUE
City,State,Zip:	LEMOORE, CA 93245
Facility County:	Not reported
Facility Telephone:	589-925-2554
Overfill installed:	True
Spill installed:	True
Date installed:	12/9/2016
Federally Regulated Tank:	True
Latitude:	Not reported
Longitude:	Not reported

Count: 0 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
NO SITES FOUND					

# 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**

### ***Federal NPL site list***

#### **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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/04/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/04/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## ***Federal Delisted NPL site list***

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: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: EPA  
Telephone: N/A  
Last EDR Contact: 03/04/2020  
Next Scheduled EDR Contact: 04/13/2020  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

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: 04/03/2019  
Date Data Arrived at EDR: 04/05/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 01/03/2020  
Next Scheduled EDR Contact: 04/13/2020  
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 known 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: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 02/05/2020  
Next Scheduled EDR Contact: 04/27/2020  
Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/04/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019	Source: EPA
Date Data Arrived at EDR: 12/16/2019	Telephone: 800-424-9346
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	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: 11/04/2019	Source: Department of the Navy
Date Data Arrived at EDR: 11/13/2019	Telephone: 843-820-7326
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/10/2020
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/25/2020
	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: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional 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.

Date of Government Version: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 12/16/2019

Date Data Arrived at EDR: 12/19/2019

Date Made Active in Reports: 03/06/2020

Number of Days to Update: 78

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 12/19/2019

Next Scheduled EDR Contact: 04/06/2020

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent NPL***

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: 10/28/2019

Date Data Arrived at EDR: 10/29/2019

Date Made Active in Reports: 01/07/2020

Number of Days to Update: 70

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/28/2020

Next Scheduled EDR Contact: 05/11/2020

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies 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: 10/28/2019

Date Data Arrived at EDR: 10/29/2019

Date Made Active in Reports: 01/07/2020

Number of Days to Update: 70

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 01/28/2020

Next Scheduled EDR Contact: 05/11/2020

Data Release Frequency: Quarterly

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/11/2019

Date Data Arrived at EDR: 11/12/2019

Date Made Active in Reports: 01/08/2020

Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 02/11/2020

Next Scheduled EDR Contact: 05/25/2020

Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## 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	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

## 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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 07/18/2011
Number of Days to Update: 14	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	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	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, Calaveras, 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	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	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	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	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: 12/09/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: see region list
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Quarterly

## 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	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	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	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	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	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## 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: 10/04/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3372
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/04/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2019	Source: EPA Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/01/2019	Source: EPA, Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-7439
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/17/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 12/16/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 05/04/2020
	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: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-8677
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/04/2020
	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: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6271
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/04/2020
	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: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-6597
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/09/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/18/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/22/2020
	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	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	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	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	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	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	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	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	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	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

## ***State and tribal registered storage tank lists***

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019  
Date Data Arrived at EDR: 08/28/2019  
Date Made Active in Reports: 11/11/2019  
Number of Days to Update: 75

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 01/21/2020  
Next Scheduled EDR Contact: 04/20/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/09/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/18/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/22/2020
	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: 12/06/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-327-7844
Date Made Active in Reports: 02/25/2020	Last EDR Contact: 03/11/2020
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/09/2019	Source: SWRCB
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-341-5851
Date Made Active in Reports: 02/21/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/22/2020
	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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 03/12/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 06/29/2020
	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: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/01/2019	Source: EPA, Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-9424
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/04/2020
	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: 10/01/2019	Source: EPA Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-6136
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-7591
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/11/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/04/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	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: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6137
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/04/2020
	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: 10/04/2019	Source: EPA Region 9
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3368
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal voluntary cleanup sites***

### 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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/17/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/06/2020
	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: 10/28/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/29/2019	Telephone: 916-323-3400
Date Made Active in Reports: 01/07/2020	Last EDR Contact: 01/28/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: Quarterly

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### BROWNFIELDS: Considered Brownfields 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: 12/18/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/19/2019	Telephone: 916-323-7905
Date Made Active in Reports: 02/19/2020	Last EDR Contact: 12/19/2019
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/06/2020
	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: 12/02/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: 202-566-2777
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 12/16/2019
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/30/2020
	Data Release Frequency: Semi-Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 01/24/2020
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: No Update Planned

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 12/09/2019	Source: Department of Conservation
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-323-3836
Date Made Active in Reports: 02/19/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Quarterly

### **HAULERS: Registered Waste Tire Haulers Listing**

A listing of registered waste tire haulers.

Date of Government Version: 11/15/2019	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 11/15/2019	Telephone: 916-341-6422
Date Made Active in Reports: 01/23/2020	Last EDR Contact: 02/07/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 05/25/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/27/2020
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: Varies

### **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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/17/2020
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/31/2020
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/11/2020
	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: 06/11/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/13/2019	Telephone: 202-307-1000
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 02/21/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/08/2020
	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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	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: 10/28/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/29/2019	Telephone: 916-323-3400
Date Made Active in Reports: 01/07/2020	Last EDR Contact: 01/28/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 05/11/2020
	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: 06/30/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/16/2019	Telephone: 916-255-6504
Date Made Active in Reports: 09/24/2019	Last EDR Contact: 01/06/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Varies

### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/21/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/02/2020  
Number of Days to Update: 72

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 01/22/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Quarterly

## 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

## 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: 06/11/2019  
Date Data Arrived at EDR: 06/13/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 82

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Quarterly

## PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/19/2020  
Number of Days to Update: 71

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Varies

## **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

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/19/2019  
Date Data Arrived at EDR: 12/23/2019  
Date Made Active in Reports: 02/21/2020  
Number of Days to Update: 60

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	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: 08/01/2019	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 08/02/2019	Telephone: 415-252-3896
Date Made Active in Reports: 10/11/2019	Last EDR Contact: 01/31/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

## 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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## 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: 10/21/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/22/2019	Telephone: 916-323-2514
Date Made Active in Reports: 01/03/2020	Last EDR Contact: 01/22/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Quarterly

## **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: 12/02/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 12/04/2019	Telephone: 916-323-3400
Date Made Active in Reports: 02/04/2020	Last EDR Contact: 02/27/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/15/2020
	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: 01/30/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/05/2020	Telephone: 202-564-6023
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/05/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/03/2019	Source: DTSC and SWRCB
Date Data Arrived at EDR: 12/04/2019	Telephone: 916-323-3400
Date Made Active in Reports: 02/04/2020	Last EDR Contact: 03/03/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/15/2020
	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: 12/05/2019	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 12/06/2019	Telephone: 202-366-4555
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 12/06/2019
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/06/2020
	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: 05/15/2019	Source: Office of Emergency Services
Date Data Arrived at EDR: 06/24/2019	Telephone: 916-845-8400
Date Made Active in Reports: 08/21/2019	Last EDR Contact: 01/22/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 05/04/2020
	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: 12/09/2019	Source: State Water Quality Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 66	Next Scheduled EDR Contact: 06/22/2020
	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: 12/09/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/18/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 04/06/2020
	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: 11/12/2019	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 11/19/2019	Telephone: 202-528-4285
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/19/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/01/2020
	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: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/10/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Semi-Annually

### 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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/09/2020
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/20/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 02/13/2020  
Next Scheduled EDR Contact: 05/25/2020  
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: 12/16/2019  
Date Data Arrived at EDR: 12/19/2019  
Date Made Active in Reports: 02/27/2020  
Number of Days to Update: 70

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 12/19/2019  
Next Scheduled EDR Contact: 04/06/2020  
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: 02/03/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 02/07/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 06/21/2017  
Date Made Active in Reports: 01/05/2018  
Number of Days to Update: 198

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 12/20/2019  
Next Scheduled EDR Contact: 03/30/2020  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 11/16/2018  
Date Made Active in Reports: 11/21/2019  
Number of Days to Update: 370

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/05/2020  
Next Scheduled EDR Contact: 06/01/2020  
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: 05/01/2019  
Date Data Arrived at EDR: 10/23/2019  
Date Made Active in Reports: 01/15/2020  
Number of Days to Update: 84

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 01/24/2020  
Next Scheduled EDR Contact: 05/04/2020  
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: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/04/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 04/25/2019  
Date Data Arrived at EDR: 05/02/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 21

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 01/21/2020  
Next Scheduled EDR Contact: 05/04/2020  
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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/04/2020
Number of Days to Update: 8	Next Scheduled EDR Contact: 05/18/2020
	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: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 01/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/20/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/06/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Quarterly

## 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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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: 10/25/2019	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/25/2019	Telephone: 301-415-7169
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 01/21/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018	Source: Department of Energy
Date Data Arrived at EDR: 12/04/2019	Telephone: 202-586-8719
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 03/06/2020
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/15/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 02/27/2020
Number of Days to Update: 251	Next Scheduled EDR Contact: 06/15/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/07/2020
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/18/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 12/20/2019
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/13/2020
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019  
Date Data Arrived at EDR: 10/29/2019  
Date Made Active in Reports: 01/15/2020  
Number of Days to Update: 78

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 01/28/2020  
Next Scheduled EDR Contact: 05/11/2020  
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: 12/31/2019  
Date Data Arrived at EDR: 01/17/2020  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 49

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/06/2020  
Next Scheduled EDR Contact: 04/20/2020  
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: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 04/06/2020  
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: 01/07/2020  
Next Scheduled EDR Contact: 04/20/2020  
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: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 01/31/2020  
Next Scheduled EDR Contact: 05/18/2020  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/21/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 03/04/2020  
Next Scheduled EDR Contact: 04/13/2020  
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 1931 and 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

## 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: 11/06/2019  
Date Data Arrived at EDR: 11/25/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/25/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/03/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 03/02/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

## 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: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
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: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
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: 12/09/2019  
Date Data Arrived at EDR: 12/11/2019  
Date Made Active in Reports: 02/27/2020  
Number of Days to Update: 78

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 03/05/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 11/22/2019  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 03/02/2020  
Number of Days to Update: 89

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 03/03/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 07/26/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 71

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/05/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/07/2020	Telephone: 202-564-2280
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 01/07/2020
Number of Days to Update: 59	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 01/13/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 04/27/2020
	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: 11/18/2019	Source: EPA
Date Data Arrived at EDR: 11/19/2019	Telephone: 800-385-6164
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/19/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Quarterly

## 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	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: 12/18/2019	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/20/2019	Telephone: 916-323-3400
Date Made Active in Reports: 02/20/2020	Last EDR Contact: 12/20/2019
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/06/2020
	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: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 02/14/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

## CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/31/2019  
Date Data Arrived at EDR: 11/01/2019  
Date Made Active in Reports: 12/11/2019  
Number of Days to Update: 40

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 01/31/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 09/06/2019  
Date Data Arrived at EDR: 10/11/2019  
Date Made Active in Reports: 12/12/2019  
Number of Days to Update: 62

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 09/27/2019  
Date Data Arrived at EDR: 10/01/2019  
Date Made Active in Reports: 11/07/2019  
Number of Days to Update: 37

Source: South Coast Air Quality Management District  
Telephone: 909-396-3211  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
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: 12/02/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 63

Source: Antelope Valley Air Quality Management District  
Telephone: 661-723-8070  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 12/31/2017  
Date Data Arrived at EDR: 06/24/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 59

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 12/19/2019  
Next Scheduled EDR Contact: 03/29/2020  
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: 07/19/2019  
Date Data Arrived at EDR: 07/22/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 66

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 01/22/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/17/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/02/2020  
Number of Days to Update: 72

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/08/2019	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 11/12/2019	Telephone: 916-341-6066
Date Made Active in Reports: 01/08/2020	Last EDR Contact: 02/07/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

## 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: 12/31/2017	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 05/29/2019	Telephone: 916-255-1136
Date Made Active in Reports: 07/22/2019	Last EDR Contact: 04/22/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Annually

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/18/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 11/19/2019	Telephone: 877-786-9427
Date Made Active in Reports: 01/23/2020	Last EDR Contact: 02/19/2020
Number of Days to Update: 65	Next Scheduled EDR Contact: 06/01/2020
	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	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: 11/18/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 11/19/2019	Telephone: 916-323-3400
Date Made Active in Reports: 01/23/2020	Last EDR Contact: 02/19/2020
Number of Days to Update: 65	Next Scheduled EDR Contact: 06/01/2020
	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: 01/06/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/07/2020	Telephone: 916-440-7145
Date Made Active in Reports: 03/05/2020	Last EDR Contact: 01/07/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/09/2019	Source: Department of Conservation
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-322-1080
Date Made Active in Reports: 02/24/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/22/2020
	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: 11/22/2019	Source: Department of Public Health
Date Data Arrived at EDR: 12/04/2019	Telephone: 916-558-1784
Date Made Active in Reports: 02/04/2020	Last EDR Contact: 03/03/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/15/2020
	Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/11/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/12/2019	Telephone: 916-445-9379
Date Made Active in Reports: 01/08/2020	Last EDR Contact: 02/11/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 05/25/2020
	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: 12/03/2019	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 12/04/2019	Telephone: 916-445-4038
Date Made Active in Reports: 02/04/2020	Last EDR Contact: 03/03/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/15/2020
	Data Release Frequency: Quarterly

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 12/09/2019	Source: Department of Conservation
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-323-3836
Date Made Active in Reports: 02/19/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 06/22/2020
	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: 12/11/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/12/2019	Telephone: 916-445-3846
Date Made Active in Reports: 02/21/2020	Last EDR Contact: 03/12/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 06/29/2020
	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: 12/06/2019	Source: Department of Conservation
Date Data Arrived at EDR: 12/10/2019	Telephone: 916-445-2408
Date Made Active in Reports: 02/19/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 12/09/2019	Source: State Water Resource Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/18/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/22/2020
	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: 11/19/2019	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 01/07/2020	Telephone: 559-445-5577
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 01/07/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/20/2020
	Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 02/14/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/01/2020
	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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 12/17/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: No Update Planned

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/09/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/10/2019	Telephone: 866-480-1028
Date Made Active in Reports: 02/18/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

## PROJECT: Project Sites (GEOTRACKER)

Projects sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/19/2020  
Number of Days to Update: 71

Source: State Water Resources Control Board  
Telephone: 916-341-5810  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 12/03/2019  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 62

Source: State Water Resources Control Board  
Telephone: 866-794-4977  
Last EDR Contact: 03/03/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 10/21/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/03/2020  
Number of Days to Update: 73

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 01/22/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Varies

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 12/09/2019  
Date Data Arrived at EDR: 12/10/2019  
Date Made Active in Reports: 02/18/2020  
Number of Days to Update: 70

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/10/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Varies

## HWTS: Hazardous Waste Tracking System

The Hazardous Waste Tracking System (HWTS) is the Department of Toxic Substances Control's data repository for hazardous waste Identification (ID) numbers and manifest information. HWTS generates reports on hazardous waste shipments for generators, transporters, and TSDFs.

Date of Government Version: 10/15/2019  
Date Data Arrived at EDR: 11/14/2019  
Date Made Active in Reports: 02/07/2020  
Number of Days to Update: 85

Source: Department of Toxic Substances Control  
Telephone: 916-324-2444  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 04/20/2020  
Data Release Frequency: Varies

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018  
Date Data Arrived at EDR: 10/21/2019  
Date Made Active in Reports: 10/24/2019  
Number of Days to Update: 3

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/06/2020  
Next Scheduled EDR Contact: 04/20/2020  
Data Release Frequency: Semi-Annually

#### UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/06/2020  
Date Data Arrived at EDR: 01/07/2020  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 59

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 01/06/2020  
Next Scheduled EDR Contact: 04/24/2047  
Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 09/06/2019  
Date Data Arrived at EDR: 09/10/2019  
Date Made Active in Reports: 10/31/2019  
Number of Days to Update: 51

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 01/06/2020  
Next Scheduled EDR Contact: 04/20/2020  
Data Release Frequency: No Update Planned

### CALVERAS COUNTY:

#### CUPA CALVERAS: CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 12/02/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 63

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 12/03/2019  
Next Scheduled EDR Contact: 04/06/2020  
Data Release Frequency: Quarterly

### COLUSA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 08/14/2019  
Date Data Arrived at EDR: 08/20/2019  
Date Made Active in Reports: 10/18/2019  
Number of Days to Update: 59

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 12/02/2019  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 62

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 01/27/2020  
Next Scheduled EDR Contact: 05/11/2020  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

### CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 10/11/2019  
Date Data Arrived at EDR: 10/29/2019  
Date Made Active in Reports: 12/11/2019  
Number of Days to Update: 43

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 01/24/2020  
Next Scheduled EDR Contact: 05/11/2020  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 12/31/2019  
Date Data Arrived at EDR: 01/03/2020  
Date Made Active in Reports: 03/05/2020  
Number of Days to Update: 62

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 01/03/2020  
Next Scheduled EDR Contact: 05/11/2020  
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: 10/08/2019  
Date Data Arrived at EDR: 10/10/2019  
Date Made Active in Reports: 12/11/2019  
Number of Days to Update: 62

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 01/03/2020  
Next Scheduled EDR Contact: 04/13/2020  
Data Release Frequency: Semi-Annually

## GLENN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List  
CUPA facility list.

Date of Government Version: 11/13/2019  
Date Data Arrived at EDR: 11/14/2019  
Date Made Active in Reports: 01/23/2020  
Number of Days to Update: 70

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 02/18/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List  
Cupa facility list.

Date of Government Version: 10/17/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/02/2020  
Number of Days to Update: 72

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
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: 02/13/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing  
Kern County Sites and Tanks Listing.

Date of Government Version: 10/28/2019  
Date Data Arrived at EDR: 11/05/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 64

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 01/31/2020  
Next Scheduled EDR Contact: 05/18/2020  
Data Release Frequency: Quarterly

KINGS COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/25/2019  
Date Data Arrived at EDR: 12/05/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 61

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 02/13/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 08/16/2019  
Date Data Arrived at EDR: 08/20/2019  
Date Made Active in Reports: 10/18/2019  
Number of Days to Update: 59

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 01/08/2020  
Next Scheduled EDR Contact: 04/27/2020  
Data Release Frequency: Varies

## LASSEN COUNTY:

### CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/22/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 65

Source: Lassen County Environmental Health  
Telephone: 530-251-8528  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
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: 03/12/2020  
Next Scheduled EDR Contact: 06/29/2020  
Data Release Frequency: No Update Planned

### HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/15/2020  
Date Data Arrived at EDR: 01/16/2020  
Date Made Active in Reports: 02/07/2020  
Number of Days to Update: 22

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 01/06/2020  
Next Scheduled EDR Contact: 04/20/2020  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LF LOS ANGELES: List of Solid Waste Facilities  
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2019	Source: La County Department of Public Works
Date Data Arrived at EDR: 10/16/2019	Telephone: 818-458-5185
Date Made Active in Reports: 12/12/2019	Last EDR Contact: 01/14/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/27/2020
	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: 01/01/2019	Source: Engineering & Construction Division
Date Data Arrived at EDR: 01/15/2019	Telephone: 213-473-7869
Date Made Active in Reports: 03/07/2019	Last EDR Contact: 01/13/2020
Number of Days to Update: 51	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: Varies

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	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/20/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/06/2020
	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: 04/30/2012	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/17/2019	Telephone: 626-458-6973
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 01/17/2020
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/27/2020
	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: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/20/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/06/2020
	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: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 12/20/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/06/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/01/2019	Source: Community Health Services
Date Data Arrived at EDR: 10/29/2019	Telephone: 323-890-7806
Date Made Active in Reports: 01/08/2020	Last EDR Contact: 01/14/2020
Number of Days to Update: 71	Next Scheduled EDR Contact: 04/27/2020
	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	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 01/13/2020
Number of Days to Update: 21	Next Scheduled EDR Contact: 04/27/2020
	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	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 01/17/2020
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/04/2020
	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: 06/27/2019	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/30/2019	Telephone: 310-618-2973
Date Made Active in Reports: 10/02/2019	Last EDR Contact: 01/17/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/04/2020
	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: 11/18/2019	Source: Madera County Environmental Health
Date Data Arrived at EDR: 11/20/2019	Telephone: 559-675-7823
Date Made Active in Reports: 01/27/2020	Last EDR Contact: 02/14/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 06/01/2020
	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	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 12/19/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Semi-Annually

## MERCED COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA MERCED: CUPA Facility List CUPA facility list.

Date of Government Version: 11/18/2019  
Date Data Arrived at EDR: 11/20/2019  
Date Made Active in Reports: 01/03/2020  
Number of Days to Update: 44

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 02/13/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 11/20/2019  
Date Data Arrived at EDR: 12/02/2019  
Date Made Active in Reports: 02/07/2020  
Number of Days to Update: 67

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 11/06/2019  
Date Data Arrived at EDR: 11/07/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 62

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 12/19/2019  
Next Scheduled EDR Contact: 04/13/2020  
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: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
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: 03/05/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA NEVADA: CUPA Facility List CUPA facility list.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/30/2019  
Date Data Arrived at EDR: 10/30/2019  
Date Made Active in Reports: 12/11/2019  
Number of Days to Update: 42

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 01/24/2020  
Next Scheduled EDR Contact: 05/11/2020  
Data Release Frequency: Varies

## ORANGE COUNTY:

IND\_SITE ORANGE: List of Industrial Site Cleanups  
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2019  
Date Data Arrived at EDR: 12/02/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 64

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/03/2020  
Next Scheduled EDR Contact: 05/18/2020  
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups  
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2019  
Date Data Arrived at EDR: 12/02/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 64

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/03/2020  
Next Scheduled EDR Contact: 05/18/2020  
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities  
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2019  
Date Data Arrived at EDR: 11/05/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 64

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 02/04/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 12/02/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 02/07/2020  
Number of Days to Update: 66

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

## RIVERSIDE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/17/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 12/13/2019  
Number of Days to Update: 52

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 02/10/2020  
Next Scheduled EDR Contact: 03/30/2020  
Data Release Frequency: Quarterly

## UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/17/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/03/2020  
Number of Days to Update: 73

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 02/10/2020  
Next Scheduled EDR Contact: 03/30/2020  
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: 11/14/2019  
Date Data Arrived at EDR: 12/23/2019  
Date Made Active in Reports: 02/20/2020  
Number of Days to Update: 59

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/23/2019  
Next Scheduled EDR Contact: 04/13/2020  
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: 11/14/2019  
Date Data Arrived at EDR: 12/23/2019  
Date Made Active in Reports: 02/21/2020  
Number of Days to Update: 60

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/23/2019  
Next Scheduled EDR Contact: 04/13/2020  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 11/14/2019  
Date Data Arrived at EDR: 11/15/2019  
Date Made Active in Reports: 01/23/2020  
Number of Days to Update: 69

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 01/31/2020  
Next Scheduled EDR Contact: 05/18/2020  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/26/2019  
Date Data Arrived at EDR: 11/27/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 69

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 02/03/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 12/03/2019  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 62

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 03/03/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

### LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018  
Date Data Arrived at EDR: 04/24/2018  
Date Made Active in Reports: 06/19/2018  
Number of Days to Update: 56

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
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: 10/16/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 12/13/2019  
Number of Days to Update: 52

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
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: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/31/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 01/08/2020  
Date Data Arrived at EDR: 01/09/2020  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 57

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 01/07/2020  
Next Scheduled EDR Contact: 05/18/2020  
Data Release Frequency: Quarterly

## 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: 03/12/2020  
Next Scheduled EDR Contact: 06/29/2020  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/12/2019  
Date Data Arrived at EDR: 12/13/2019  
Date Made Active in Reports: 02/20/2020  
Number of Days to Update: 69

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 02/14/2020  
Next Scheduled EDR Contact: 06/01/2020  
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: 09/03/2019  
Date Data Arrived at EDR: 09/09/2019  
Date Made Active in Reports: 11/05/2019  
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 02/20/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 03/05/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/14/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: No Update Planned

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 11/18/2019  
Date Data Arrived at EDR: 11/19/2019  
Date Made Active in Reports: 01/23/2020  
Number of Days to Update: 65

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 02/14/2020  
Next Scheduled EDR Contact: 06/01/2020  
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: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: No Update Planned

### SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 10/30/2019  
Date Data Arrived at EDR: 11/01/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 68

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 02/13/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: 02/14/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Varies

## SHASTA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/14/2020  
Next Scheduled EDR Contact: 06/01/2020  
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: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/11/2019  
Date Made Active in Reports: 02/21/2020  
Number of Days to Update: 72

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 02/25/2020  
Date Data Arrived at EDR: 02/26/2020  
Date Made Active in Reports: 03/11/2020  
Number of Days to Update: 14

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 01/07/2020  
Next Scheduled EDR Contact: 04/06/2020  
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: 01/02/2020  
Date Data Arrived at EDR: 01/03/2020  
Date Made Active in Reports: 03/05/2020  
Number of Days to Update: 62

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 12/17/2019  
Next Scheduled EDR Contact: 04/06/2020  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

### CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 11/04/2019  
Date Data Arrived at EDR: 11/07/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 62

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 01/13/2020  
Next Scheduled EDR Contact: 04/27/2020  
Data Release Frequency: Varies

## SUTTER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 02/07/2020  
Number of Days to Update: 66

Source: Sutter County Environmental Health Services  
Telephone: 530-822-7500  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 05/20/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 01/23/2020  
Next Scheduled EDR Contact: 05/18/2020  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 10/17/2019  
Date Data Arrived at EDR: 10/22/2019  
Date Made Active in Reports: 01/02/2020  
Number of Days to Update: 72

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

## TULARE COUNTY:

### CUPA TULARE: CUPA Facility List

Cupa program facilities

Date of Government Version: 11/25/2019  
Date Data Arrived at EDR: 11/27/2019  
Date Made Active in Reports: 02/04/2020  
Number of Days to Update: 69

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 02/03/2020  
Next Scheduled EDR Contact: 05/18/2020  
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: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 01/17/2020  
Next Scheduled EDR Contact: 05/04/2020  
Data Release Frequency: Varies

## VENTURA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 05/29/2019	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 07/29/2019	Telephone: 805-654-2813
Date Made Active in Reports: 09/30/2019	Last EDR Contact: 01/21/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/04/2020
	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	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 12/19/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 04/13/2020
	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	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 02/07/2020
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/25/2020
	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: 09/26/2019	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 10/23/2019	Telephone: 805-654-2813
Date Made Active in Reports: 12/13/2019	Last EDR Contact: 01/21/2020
Number of Days to Update: 51	Next Scheduled EDR Contact: 05/04/2020
	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: 11/26/2019	Source: Environmental Health Division
Date Data Arrived at EDR: 12/10/2019	Telephone: 805-654-2813
Date Made Active in Reports: 02/21/2020	Last EDR Contact: 03/10/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 06/22/2020
	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: 09/25/2019	Source: Yolo County Department of Health
Date Data Arrived at EDR: 10/01/2019	Telephone: 530-666-8646
Date Made Active in Reports: 10/31/2019	Last EDR Contact: 12/19/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/13/2020
	Data Release Frequency: Annually

## YUBA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 11/04/2019  
Date Data Arrived at EDR: 11/06/2019  
Date Made Active in Reports: 01/08/2020  
Number of Days to Update: 63

Source: Yuba County Environmental Health Department  
Telephone: 530-749-7523  
Last EDR Contact: 02/07/2020  
Next Scheduled EDR Contact: 05/25/2020  
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: 01/30/2020  
Date Data Arrived at EDR: 01/30/2020  
Date Made Active in Reports: 03/09/2020  
Number of Days to Update: 39

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 01/30/2020  
Next Scheduled EDR Contact: 05/25/2020  
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: 01/06/2020  
Next Scheduled EDR Contact: 04/20/2020  
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: 05/01/2019  
Date Made Active in Reports: 06/21/2019  
Number of Days to Update: 51

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 01/31/2020  
Next Scheduled EDR Contact: 05/11/2020  
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: 01/14/2020  
Next Scheduled EDR Contact: 04/07/2020  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 10/02/2019  
Date Made Active in Reports: 12/10/2019  
Number of Days to Update: 69

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/18/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/09/2020  
Next Scheduled EDR Contact: 06/22/2020  
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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

JERSEY AVENUE  
16188 17TH AVE  
LEMOORE, CA 93245

### TARGET PROPERTY COORDINATES

Latitude (North): 36.237189 - 36° 14' 13.88"  
Longitude (West): 119.763901 - 119° 45' 50.04"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 251609.0  
UTM Y (Meters): 4013598.8  
Elevation: 219 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 5603218 STRATFORD, CA  
Version Date: 2012

Northeast Map: 5619114 HANFORD, CA  
Version Date: 2012

Southeast Map: 5603180 GUERNSEY, CA  
Version Date: 2012

Northwest Map: 5619120 LEMOORE, CA  
Version Date: 2012

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

## 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**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06031C0325C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06031C0170D	FEMA FIRM Flood data
0600860125B	FEMA Q3 Flood data
06031C0350C	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
STRATFORD	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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## 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**

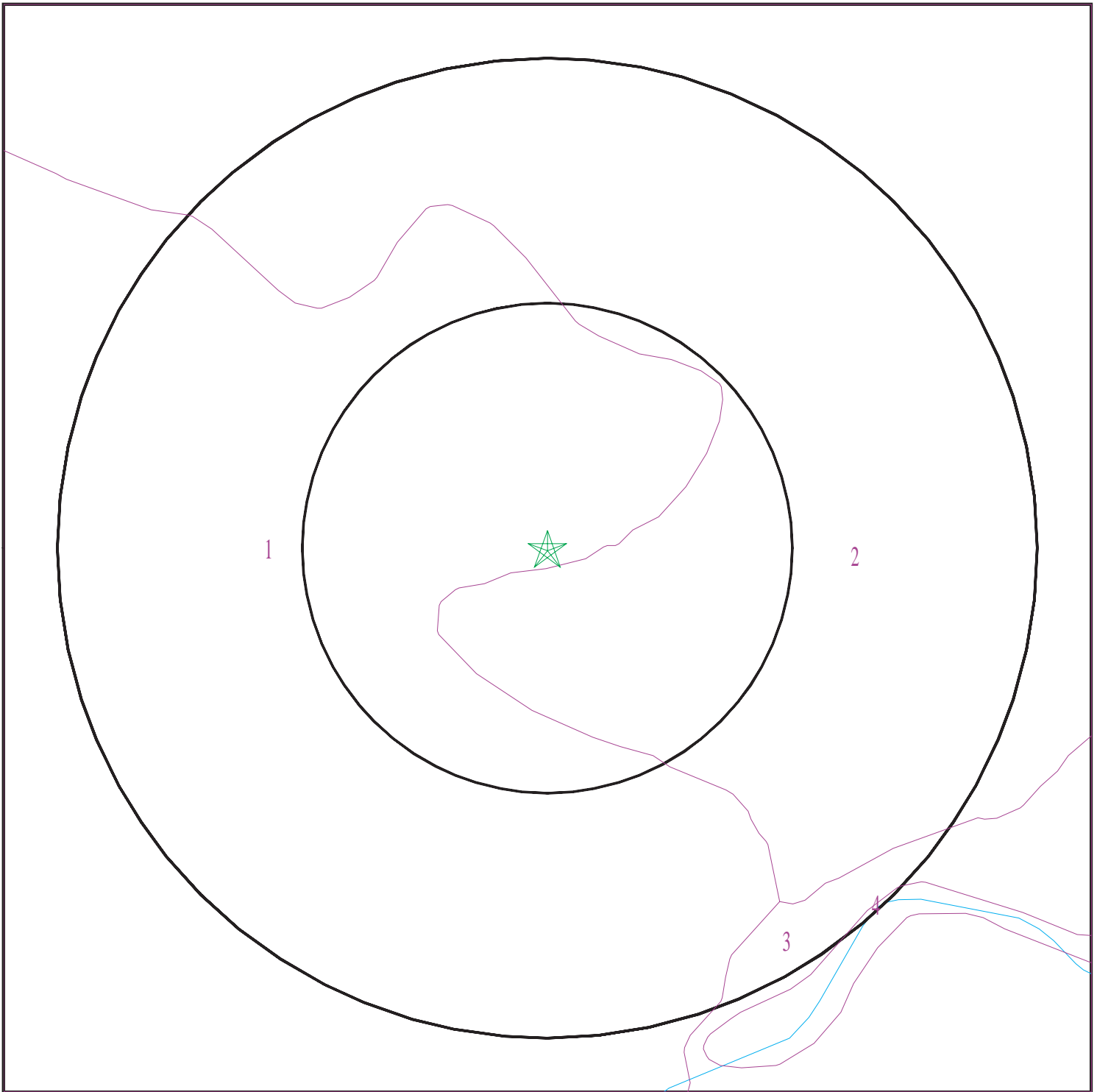
Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified 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 - 6010660.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Jersey Avenue  
ADDRESS: 16188 17TH AVE  
LEMOORE CA 93245  
LAT/LONG: 36.237189 / 119.763901

CLIENT: ANALYTICAL ENVIRONMENTAL SERVICES  
CONTACT: David Pfuhrer  
INQUIRY #: 6010660.2s  
DATE: March 16, 2020 1:09 pm

# 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: GRANGEVILLE

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: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 153 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Not reported	Not reported	Max: 14 Min: 4	Max: 9 Min: 7.4
2	9 inches	59 inches	stratified sandy loam to fine sandy loam	Not reported	Not reported	Max: 14 Min: 4	Max: 9 Min: 7.4

### Soil Map ID: 2

Soil Component Name: KIMBERLINA

Soil Surface Texture:

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	7 inches	59 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

### Soil Map ID: 3

Soil Component Name: KIMBERLINA

Soil Surface Texture:

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: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	7 inches	59 inches		Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture:  
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

## 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.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000171080	1/8 - 1/4 Mile SE
B3	USGS40000171222	1/2 - 1 Mile NNE
B6	USGS40000171233	1/2 - 1 Mile NNE
7	USGS40000170935	1/2 - 1 Mile South
8	USGS40000170934	1/2 - 1 Mile South
9	USGS40000170996	1/2 - 1 Mile SSW
C12	USGS40000171185	1/2 - 1 Mile WNW
C13	USGS40000171186	1/2 - 1 Mile WNW
D14	USGS40000171119	1/2 - 1 Mile WNW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
D15	USGS40000171120	1/2 - 1 Mile WNW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	CADWR8000023988	1/2 - 1 Mile North
A4	CADWR8000024000	1/2 - 1 Mile North
5	CADWR8000023772	1/2 - 1 Mile SSW
10	CADWR8000023739	1/2 - 1 Mile SSW
C11	14510	1/2 - 1 Mile WNW
D16	CADWR8000023902	1/2 - 1 Mile WNW
17	CADWR8000023784	1/2 - 1 Mile SE

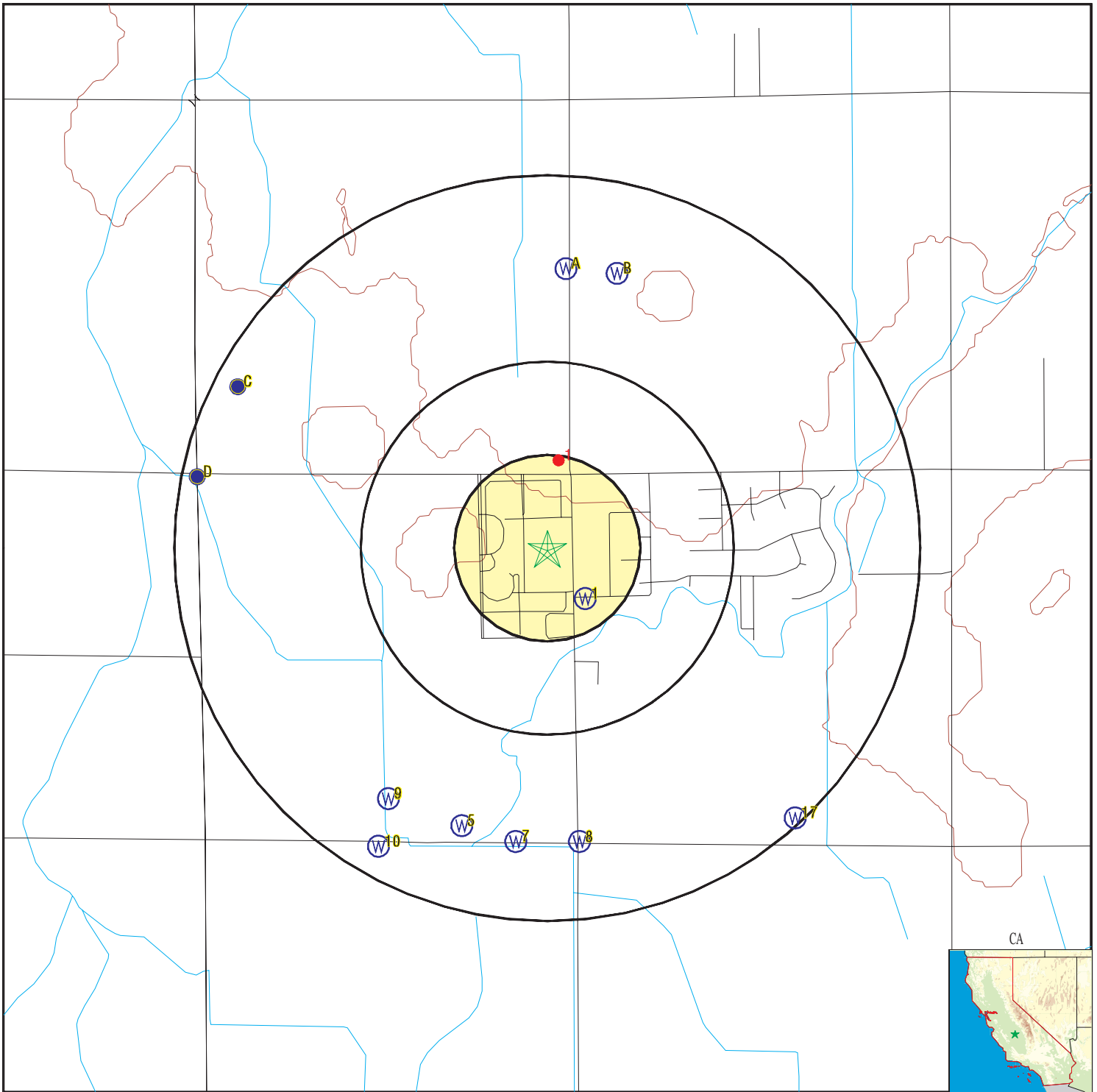
## OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG13000012533	1/8 - 1/4 Mile North



# PHYSICAL SETTING SOURCE MAP - 6010660.2s



- 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: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE CA 93245  
 LAT/LONG: 36.237189 / 119.763901

CLIENT: ANALYTICAL ENVIRONMENTAL SERVICES  
 CONTACT: David Pfuhrer  
 INQUIRY #: 6010660.2s  
 DATE: March 16, 2020 1:09 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**  
**SE**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000171080**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E35H001M	Type:	Well
Description:	Not Reported	HUC:	18030012
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:	19570101	Well Depth:	312
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-02-01
Feet below surface:	35.30	Feet to sea level:	Not Reported
Note:	Not Reported		

**A2**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR8000023988**

State Well #:	19S20E25E001M	Station ID:	17236
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

**B3**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000171222**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E25E001M	Type:	Well
Description:	Not Reported	HUC:	18030012
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:	369
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-11-29
Feet below surface:	76.90	Feet to sea level:	Not Reported
Note:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A4**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR8000024000**

State Well #:	19S20E26H001M	Station ID:	17237
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

**5**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000023772**

State Well #:	19S20E35Q001M	Station ID:	17240
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

**B6**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000171233**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E26H001M	Type:	Well
Description:	Not Reported	HUC:	18030012
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:	19460101	Well Depth:	60
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-02-01
Feet below surface:	13.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**7**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000170935**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S030E35Q001M	Type:	Well
Description:	Not Reported	HUC:	18030012
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

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Construction Date:	19460101	Well Depth:	30
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-12-12
Feet below surface:	11.60	Feet to sea level:	Not Reported
Note:	Not Reported		

**8**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000170934**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E36N001M	Type:	Well
Description:	TULARE BASIN DRAIN PROJECT		
HUC:	18030012	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Units:	Not Reported	Aquifer:	Central Valley aquifer system
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	10.1
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1989-05
Feet below surface:	6.4	Feet to sea level:	Not Reported
Note:	Not Reported		

**9**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000170996**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	020S020E02C001M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	20
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1961-12-14
Feet below surface:	13.40	Feet to sea level:	Not Reported
Note:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**10**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000023739**

State Well #:	20S20E02C001M	Station ID:	18087
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

**C11**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      14510**

Seq:	14510	Prim sta c:	19S/20E-26N01 M
Frds no:	1600008001	County:	16
District:	46	User id:	16C
System no:	1600008	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	361436.0	Longitude:	1194640.0
Precision:	2	Status:	AR
Comment 1:	15783 18TH AVE	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:	1600008	System nam:	Central Union School
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:	10-OCT-16	Finding:	0.458
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	10-OCT-16	Finding:	8.9
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		

Sample date:	28-JUL-16	Finding:	9.2
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		

Sample date:	28-JUL-16	Finding:	0.364
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	11-JAN-16	Finding:	0.294
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	13-JUL-15	Finding:	9.2
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	11-MAY-15	Finding:	9.8
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	11-MAY-15	Finding:	350.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	11-MAY-15	Finding:	24.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	11-MAY-15	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	1.2
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	11-MAY-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	11-MAY-15	Finding:	8.5
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	130.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	0.74
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	3.4
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	12.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	12.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	290.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	250.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	11-MAY-15	Finding:	8.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	11-MAY-15	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	11-MAY-15	Finding:	1.5
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	11-MAY-15	Finding:	50.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	11-MAY-15	Finding:	0.84
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	12-JAN-15	Finding:	0.528
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	12-JAN-15	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	12-JAN-15	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	12-JAN-15	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	06-OCT-14	Finding:	260.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	310.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	5.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	11.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	3.3
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	0.73
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	130.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	06-OCT-14	Finding:	9.3
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	06-OCT-14	Finding:	150.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	06-OCT-14	Finding:	9.38
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	06-OCT-14	Finding:	0.479
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	06-OCT-14	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	08-SEP-14	Finding:	540.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	08-SEP-14	Finding:	0.341
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	07-JUL-14	Finding:	0.412
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	07-JUL-14	Finding:	2.01
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	07-JUL-14	Finding:	6.07
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	07-APR-14	Finding:	0.467
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	07-APR-14	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	07-APR-14	Finding:	8.83
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	07-OCT-13	Finding:	0.479
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	07-OCT-13	Finding:	3.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	07-OCT-13	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	07-OCT-13	Finding:	8.28
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	01-JUL-13	Finding:	1.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	01-JUL-13	Finding:	0.412
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	01-JUL-13	Finding:	6.62
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	01-JUL-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	09-APR-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	09-APR-13	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	09-APR-13	Finding:	8.28
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	09-APR-13	Finding:	2.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	04-JAN-13	Finding:	9.42
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	04-JAN-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	04-JAN-13	Finding:	0.467
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	02-OCT-12	Finding:	2.33
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	02-OCT-12	Finding:	0.602
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-JUL-12	Finding:	9.5
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	10-JUL-12	Finding:	1.09
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	10-JUL-12	Finding:	0.687
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-MAY-12	Finding:	2.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	10-MAY-12	Finding:	0.561
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-MAY-12	Finding:	8.2
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	10-MAY-12	Finding:	0.91
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	10-MAY-12	Finding:	1.09
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		

**C12  
WNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000171185**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E26N001M	Type:	Well
Description:	Not Reported	HUC:	18030012
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:	Alluvium Above E-Clay	Aquifer Type:	Not Reported
Construction Date:	19541119	Well Depth:	200
Well Depth Units:	ft	Well Hole Depth:	252
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	1	Level reading date:	1986-04-14
Feet below surface:	43.04	Feet to sea level:	Not Reported
Note:	Not Reported		

**C13  
WNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000171186**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	019S020E26N003M	Type:	Well
Description:	Not Reported	HUC:	18030012
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	835
Construction Date:	196809	Well Hole Depth:	1200
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1986-04-14
Feet below surface:	72.29	Feet to sea level:	Not Reported
Note:	Not Reported		

**D14  
WNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000171119**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center	Type:	Well
Monitor Location:	019S020E35D001M	Description:	TULARE BASIN DRAIN PROJECT
HUC:	18030012	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		

**D15  
WNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000171120**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center	Type:	Well
Monitor Location:	019S020E35D002M	HUC:	18030012
Description:	Not Reported	Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Contrib Drainage Area:	Not Reported	Aquifer:	Central Valley aquifer system
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	17.72
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1989-05-25
Feet below surface:	7.83	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1989-03-23	Feet below surface:	8.20
Feet to sea level:	Not Reported	Note:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**D16**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADWR8000023902**

State Well #:	19S20E35D002M	Station ID:	37877
Well Name:	19S20E35D002M	Well Use:	Unknown
Well Type:	Single Well	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

**17**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR8000023784**

State Well #:	19S20E36Q001M	Station ID:	17241
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Tulare Lake	Well Completion Rpt #:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

---

1

North

1/8 - 1/4 Mile

OIL\_GAS

CAOG13000012533

API #: 0403120222  
Well Status: Plugged  
Operator Name: Pacific Enterprises Oil Co. (USA)  
Lease Name: Piexoto  
Area Name: Any Area  
Confidential Well: N  
SPUD Date: 12/01/1981

Well #: 1  
Well Type: DH  
Field Name: Any Field  
GIS Source: hud  
Directionally Drilled: N

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93245	8	1

Federal EPA Radon Zone for KINGS 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.

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Federal Area Radon Information for Zip Code: 93245

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.775 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# 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 and 2010 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<sup>R</sup> 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.

### STATE RECORDS

#### 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.

## OTHER STATE DATABASE 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

#### 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.



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### 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.

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# ***APPENDIX B***

---

*EDR AERIAL PHOTO DECADE PACKAGE*



**Jersey Avenue**

16188 17TH AVE

LEMOORE, CA 93245

Inquiry Number: 6010660.8

March 17, 2020

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

03/17/20

**Site Name:**

Jersey Avenue  
16188 17TH AVE  
LEMOORE, CA 93245  
EDR Inquiry # 6010660.8

**Client Name:**

ANALYTICAL ENVIRONMENTAL SERV  
1801 7th Street  
Sacramento, CA 95811  
Contact: David Pfuhrer



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

## Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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
1994	1"=500'	Acquisition Date: May 02, 1994	USGS/DOQQ
1984	1"=500'	Flight Date: June 09, 1984	USDA
1976	1"=500'	Flight Date: July 01, 1976	USGS
1974	1"=500'	Flight Date: August 01, 1974	USGS
1950	1"=500'	Flight Date: April 15, 1950	USDA
1940	1"=500'	Flight Date: May 21, 1940	USDA
1937	1"=500'	Flight Date: September 04, 1937	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

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INQUIRY #: 6010660.8

YEAR: 2016

— = 500'





INQUIRY #: 6010660.8

YEAR: 2012

— = 500'





INQUIRY #: 6010660.8

YEAR: 2009

— = 500'





INQUIRY #: 6010660.8

YEAR: 2006

— = 500'







INQUIRY #: 6010660.8

YEAR: 1994

— = 500'





INQUIRY #: 6010660.8

YEAR: 1984

— = 500'





INQUIRY # 6010660.8

YEAR: 1976

— = 500'





INQUIRY #: 6010660.8

YEAR: 1974

— = 500'





INQUIRY #: 6010660.8

YEAR: 1950

— = 500'





INQUIRY #: 6010660.8

YEAR: 1940

— = 500'





INQUIRY #: 6010660.8

YEAR: 1937

— = 500'




# **APPENDIX C**

---

*EDR HISTORICAL TOPO MAP REPORT WITH QUADMATCH*





Jersey Avenue  
16188 17TH AVE  
LEMOORE, CA 93245

Inquiry Number: 6010660.4

March 16, 2020

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

03/16/20

**Site Name:**

Jersey Avenue  
16188 17TH AVE  
LEMOORE, CA 93245  
EDR Inquiry # 6010660.4

**Client Name:**

ANALYTICAL ENVIRONMENTAL SERVI  
1801 7th Street  
Sacramento, CA 95811  
Contact: David Pfuhler



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ANALYTICAL ENVIRONMENTAL SERVICES were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	36.237189 36° 14' 14" North
<b>Project:</b>	Jersey Avenue Parcels	<b>Longitude:</b>	-119.763901 -119° 45' 50" West
		<b>UTM Zone:</b>	Zone 11 North
		<b>UTM X Meters:</b>	251614.99
		<b>UTM Y Meters:</b>	4013799.72
		<b>Elevation:</b>	219.00' above sea level

**Maps Provided:**

2012  
1954  
1950  
1943  
1940, 1942  
1926, 1927, 1929

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets



Stratford  
2012  
7.5-minute, 24000



Guernsey  
2012  
7.5-minute, 24000



Lemoore  
2012  
7.5-minute, 24000



Hanford  
2012  
7.5-minute, 24000

### 1954 Source Sheets



Guernsey  
1954  
7.5-minute, 24000



Stratford  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1950

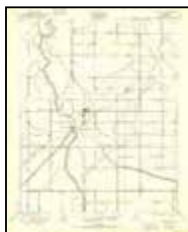


Lemoore  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1950



Hanford  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1950

### 1950 Source Sheets



Stratford  
1950  
7.5-minute, 24000

### 1943 Source Sheets



Stratford  
1943  
15-minute, 62500  
Aerial Photo Revised 1940

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1940, 1942 Source Sheets



Stratford  
1940  
15-minute, 62500  
Aerial Photo Revised 1940

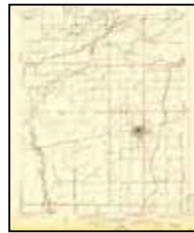


Corcoran  
1942  
15-minute, 62500  
Aerial Photo Revised 1940

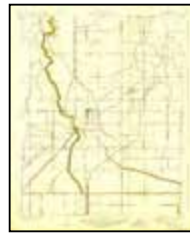
### 1926, 1927, 1929 Source Sheets



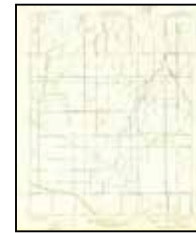
Hanford  
1926  
7.5-minute, 31680



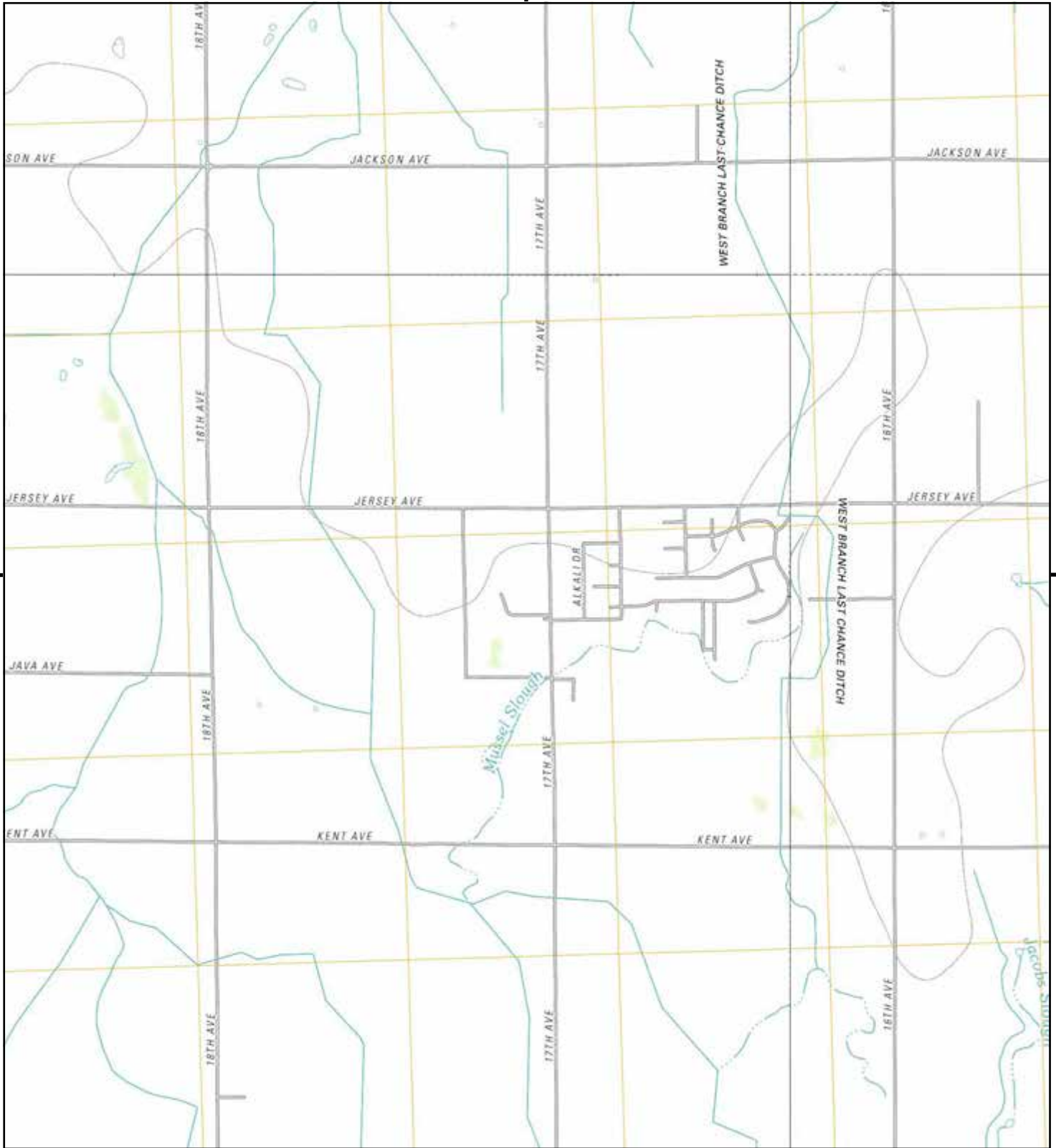
Lemoore  
1927  
7.5-minute, 31680



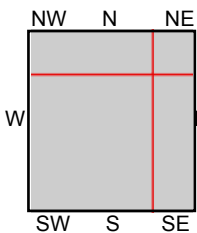
Stratford  
1929  
7.5-minute, 31680



Guernsey  
1929  
7.5-minute, 31680



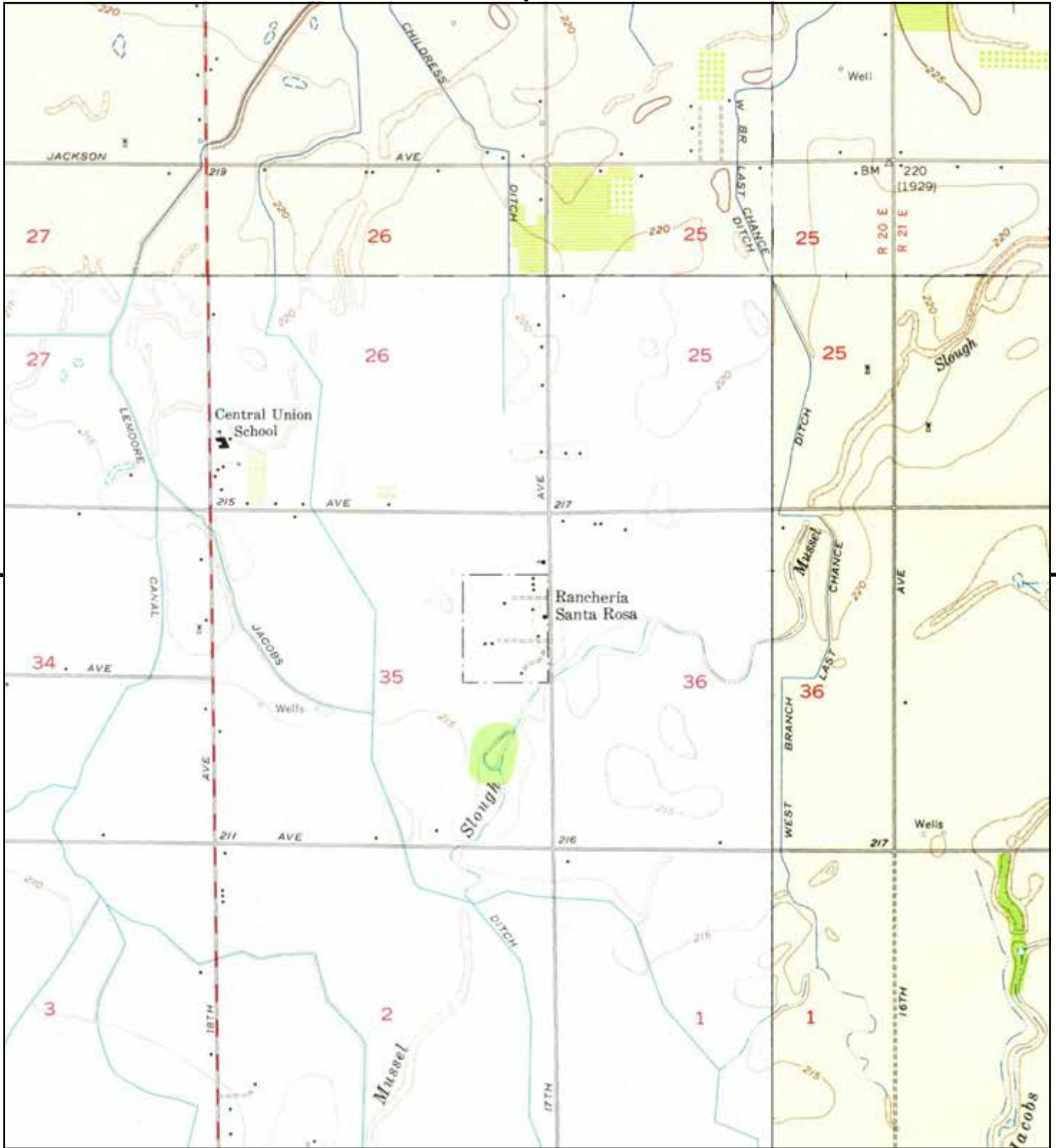
This report includes information from the following map sheet(s).



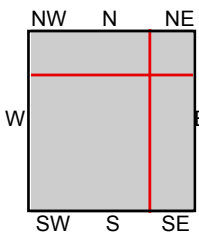
TP, Stratford, 2012, 7.5-minute  
 NE, Hanford, 2012, 7.5-minute  
 SE, Guernsey, 2012, 7.5-minute  
 NW, Lemoore, 2012, 7.5-minute

SITE NAME: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE, CA 93245  
 CLIENT: ANALYTICAL ENVIRONMENTAL SERVI





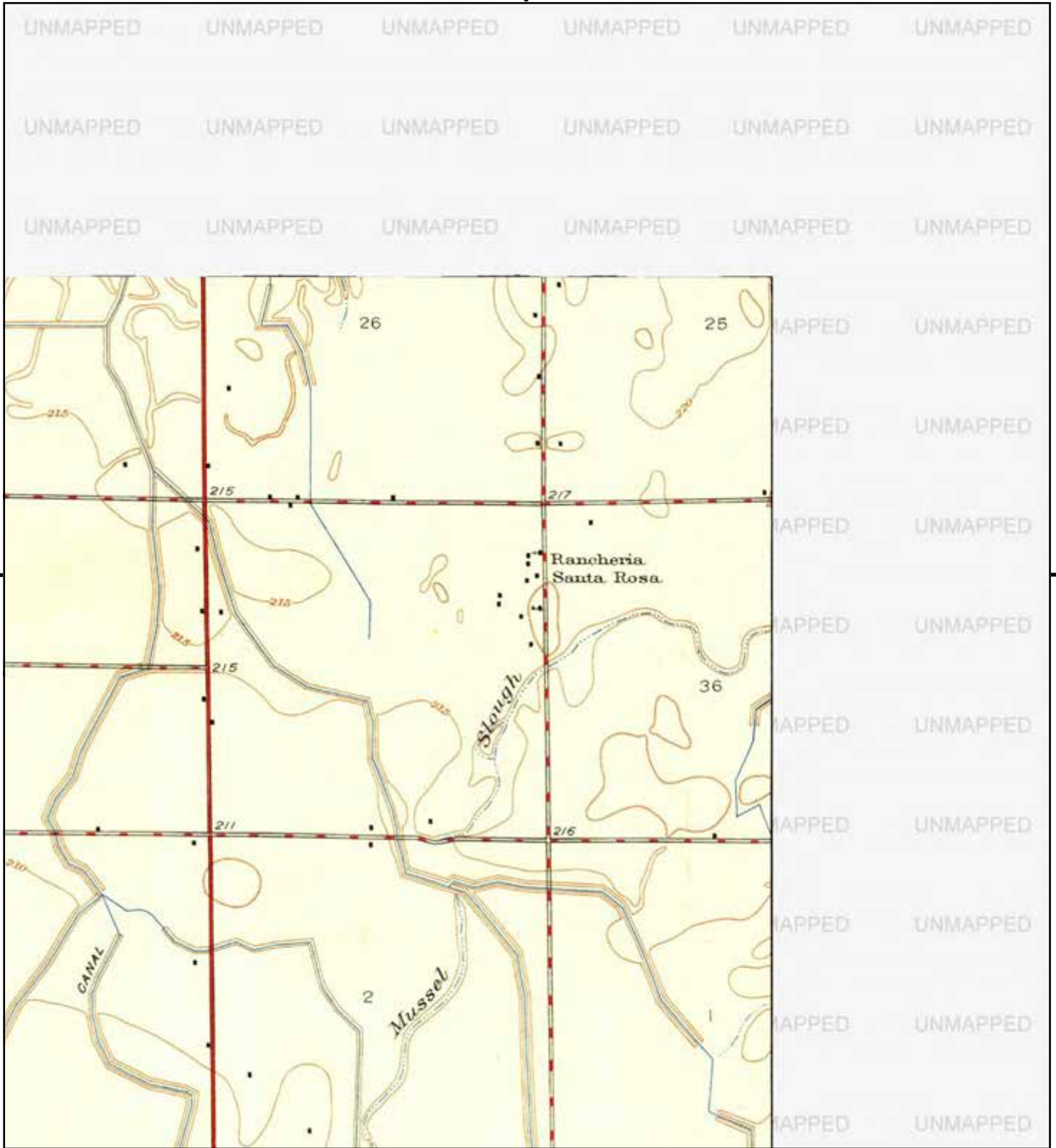
This report includes information from the following map sheet(s).



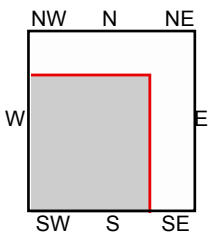
TP, Stratford, 1954, 7.5-minute  
 NE, Hanford, 1954, 7.5-minute  
 SE, Guernsey, 1954, 7.5-minute  
 NW, Lemoore, 1954, 7.5-minute

SITE NAME: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE, CA 93245  
 CLIENT: ANALYTICAL ENVIRONMENTAL SERVI





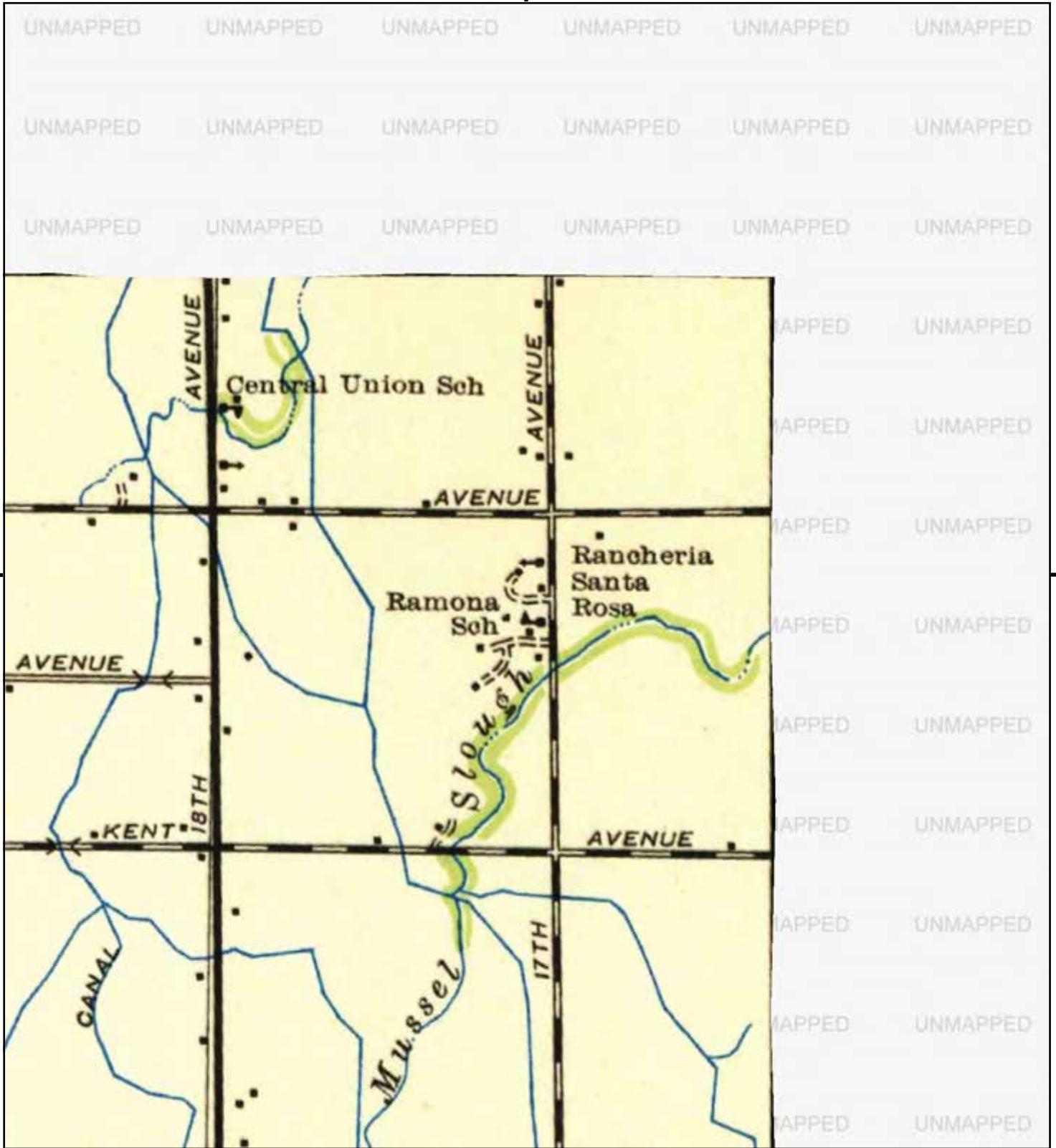
This report includes information from the following map sheet(s).



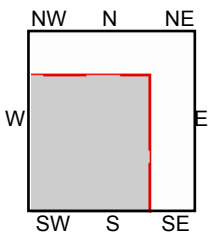
TP, Stratford, 1950, 7.5-minute

SITE NAME: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE, CA 93245  
 CLIENT: ANALYTICAL ENVIRONMENTAL SERVI





This report includes information from the following map sheet(s).

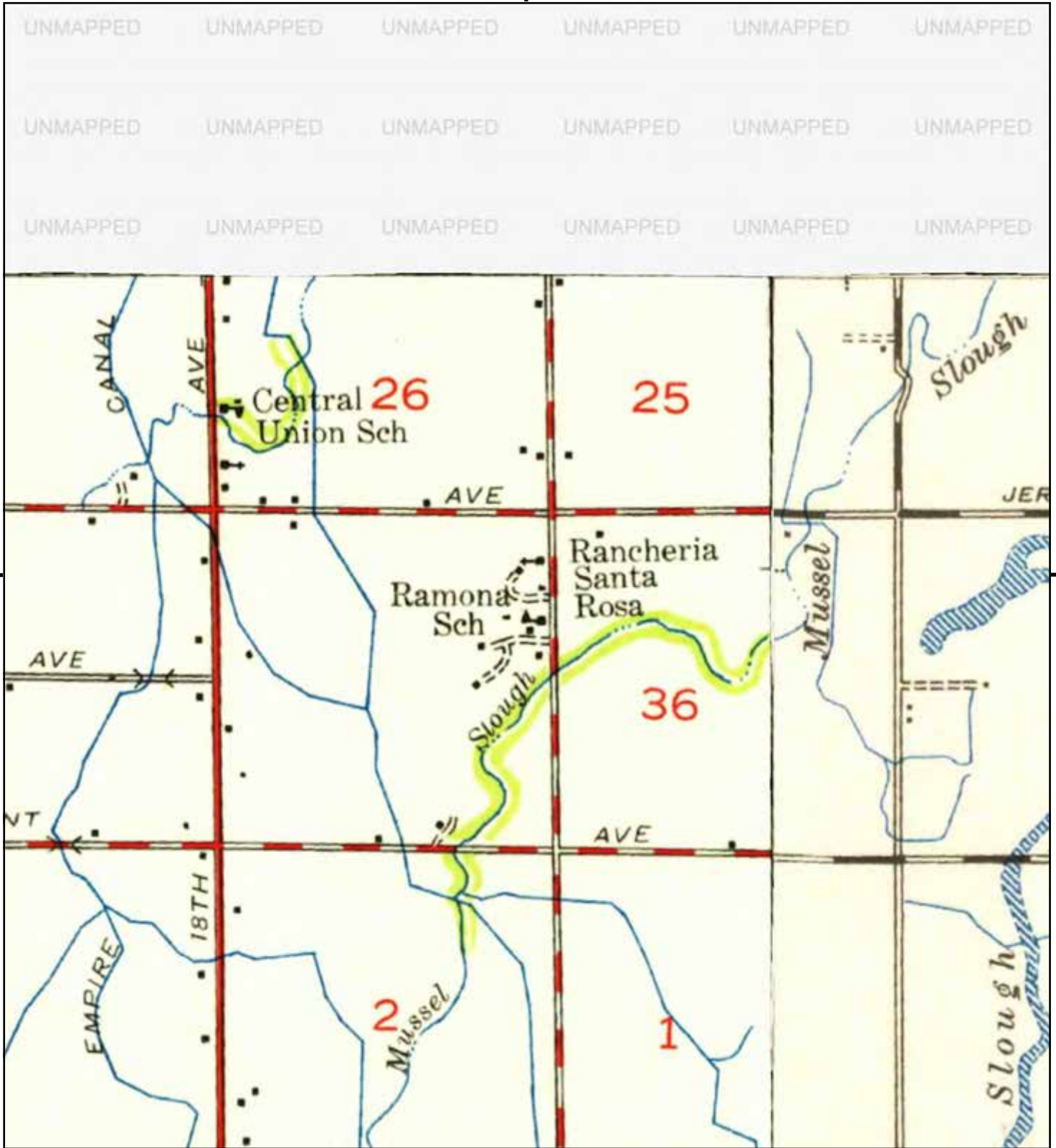


TP, Stratford, 1943, 15-minute

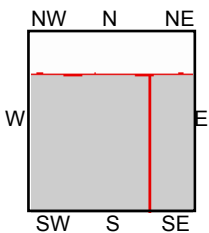
SITE NAME: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE, CA 93245  
 CLIENT: ANALYTICAL ENVIRONMENTAL SERVI







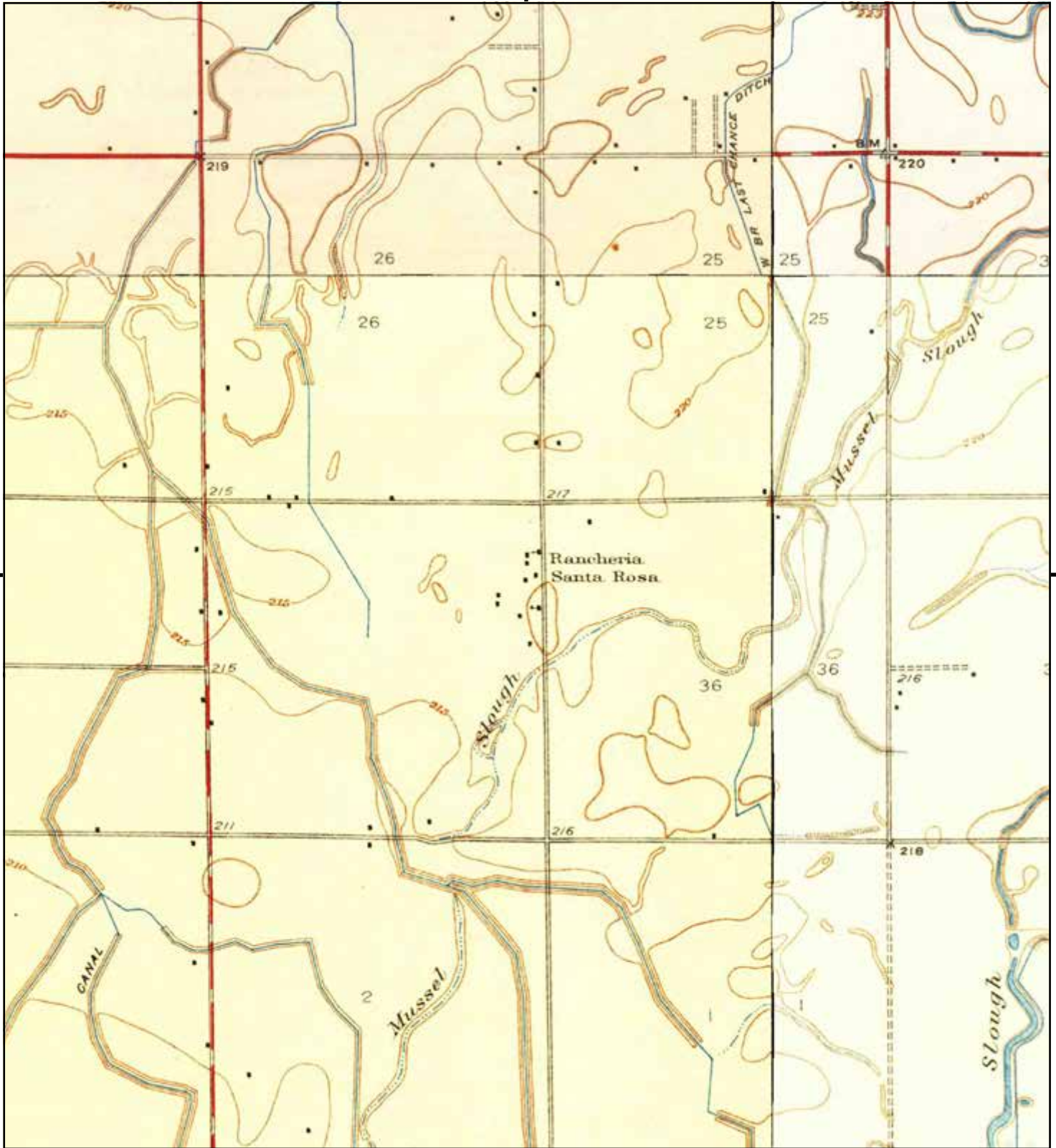
This report includes information from the following map sheet(s).



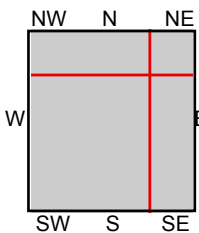
TP, Stratford, 1940, 15-minute  
SE, Corcoran, 1942, 15-minute

SITE NAME: Jersey Avenue  
ADDRESS: 16188 17TH AVE  
LEMOORE, CA 93245  
CLIENT: ANALYTICAL ENVIRONMENTAL SERVI





This report includes information from the following map sheet(s).



TP, Stratford, 1929, 7.5-minute  
 NE, Hanford, 1926, 7.5-minute  
 SE, Guernsey, 1929, 7.5-minute  
 NW, Lemoore, 1927, 7.5-minute


SITE NAME: Jersey Avenue  
 ADDRESS: 16188 17TH AVE  
 LEMOORE, CA 93245  
 CLIENT: ANALYTICAL ENVIRONMENTAL SERVI



# ***APPENDIX D***

---

*CERTIFIED SANBORN MAP REPORT*



Jersey Avenue  
16188 17TH AVE  
LEMOORE, CA 93245

Inquiry Number: 6010660.3

March 16, 2020

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

03/16/20

**Site Name:**

Jersey Avenue  
16188 17TH AVE  
LEMOORE, CA 93245  
EDR Inquiry # 6010660.3

**Client Name:**

ANALYTICAL ENVIRONMENTAL SERVICES  
1801 7th Street  
Sacramento, CA 95811  
Contact: David Pfuhler



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ANALYTICAL ENVIRONMENTAL SERVICES were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** E432-48F7-A970

**PO #** NA

**Project** Jersey Avenue Parcels

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: E432-48F7-A970

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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# ***APPENDIX E***

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*EDR-CITY DIRECTORY ABSTRACT*

**Jersey Avenue**

16188 17TH AVE  
LEMOORE, CA 93245

Inquiry Number: 6010660.5  
March 18, 2020

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
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 city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive 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.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1980	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1975	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

16188 17TH AVE  
LEMOORE, CA 93245

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
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### 17TH AVE

2014	pg A2	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2005	pg A9	EDR Digital Archive
2000	pg A13	EDR Digital Archive
1995	pg A16	EDR Digital Archive
1992	pg A18	EDR Digital Archive
1985	pg A20	Haines Criss-Cross Directory
1980	pg A21	Haines Criss-Cross Directory
1975	pg A22	Haines Criss-Cross Directory

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

## 17TH AVE 2014

8124 EVANGELO, JOHN D  
 9116 J & C WARMERDAM SPRAYING  
 WARMERDAM, JEROME C  
 9121 BOPARAI, JAGJIT S  
 9219 ANNON, JOSEPH M  
 9266 ARTIS, JENNIFER  
 9308 SILVEIRA CUSTOM HARVESTING  
 SILVEIRA, RODNEY L  
 9357 FARIA, GERALD G  
 9495 MENDES, ANGELA C  
 9886 OCCUPANT UNKNOWN,  
 9908 THOMPSON, TODD A  
 9920 SOUZA, EUGENE A  
 10150 RODRIGUES, TONY D  
 10228 SOARES, EDWARD M  
 10262 OCCUPANT UNKNOWN,  
 10510 BRAY, RANDALL K  
 10532 COTA, RUDY  
 10549 NORDSTROM, ROGER L  
 10578 TIDWELL, JAMES B  
 10637 HERNANDEZ, RUFINA M  
 10662 NORDSTROM, NEIL N  
 10712 FERNANDEZ, MANUEL F  
 10729 OCCUPANT UNKNOWN,  
 10730 JONES, KENNETH D  
 10833 HUGHES, DON D  
 10875 FRANKS, LOYD L  
 10911 HENRY WM  
 HENRY, LAWRENCE W  
 10945 SILVA, RONNIE J  
 11028 JEHOVAHS WTNESSES LEMOORE CNTY  
 11070 SHANNON, ROBERT J  
 11108 HALE, WAYNE  
 11164 SPERLICH, JAMES L  
 11194 OCCUPANT UNKNOWN,  
 11300 COX, KIMBERLY A  
 11386 GILES, VICTOR L  
 11480 AGUILAR, SUGEY C  
 11498 HOOD, MILES E  
 11516 SCHUSCHKE, JERAD  
 11518 SCHUSCHKE, MARILYN  
 11550 CAIN, DAVID R  
 DC ARMS FIREARMS & ACCESSORIES  
 11561 BUSH, GREGORY  
 11575 BUSH, GREGORY W  
 11581 OCCUPANT UNKNOWN,  
 11588 SOBOLEWSKI, CHRISTOPHER W  
 11595 WORRELL SCOTT  
 WORRELL, SCOTT J  
 11599 BAKER TOM ELECTRIC

17TH AVE

2014

(Cont'd)

11599 BAKER, BENJAMIN C  
 11600 DUTRA ERNEST  
       DUTRA, ERNEST J  
 11615 SHIMMON, JEFFREY D  
 11628 SERPA, JUDI  
 11630 OCCUPANT UNKNOWN,  
 11651 ETCHEBEHERE, JANE C  
 11652 RAY, DELBERT R  
       SMOG SHOP THE  
 11663 SHIMMON, RICHARD D  
 11673 WOODWARD, DAVID C  
 11686 FREER, ROBIN E  
 11741 VEGA, MIKE  
 11748 THOMAS, AMANDA L  
 11757 STREETER, BRADFORD E  
 11770 ELLBERG, SHAWN R  
 11771 VARGAS, STEVEN A  
 11853 BERNARD, GREGORY B  
 11900 AIR WARRIORS  
 11926 W K NURSEY  
 11958 WEST VALLEY SUPPLY INC  
 12071 CASSIDY, AMIEL  
       CLARK, DENNY D  
       NCINTYRE, MEGAN  
 12085 VIGARIO, MICHAEL P  
 12115 MONTGOMERY, AMANDA N  
 12167 LUIS, BEN L  
 12229 OCCUPANT UNKNOWN,  
 12293 OCCUPANT UNKNOWN,  
 12325 AVILA, MANUEL J  
 12345 AVILA OLIVIA MARIA  
       RAMONA, MARIA  
 12361 OCCUPANT UNKNOWN,  
 12384 OCCUPANT UNKNOWN,  
 12386 OCCUPANT UNKNOWN,  
 12390 OCCUPANT UNKNOWN,  
 12419 NEAL, GLEN E  
 12445 OCCUPANT UNKNOWN,  
 12685 GONZALES, JESSE M  
 12913 STAMMER, WALT H  
 13013 ROCHA NANCY  
       ROCHA, NANCY L  
 13531 STEFFENS MICHEAL  
       STEFFENS, MICHAEL W  
 13541 HARRIS, LAWRENCE A  
 13610 CLARK, SHERRY D  
 13661 MATTINGLY, JAMES M  
 13705 JAMES, GAIL L  
       STROLE DOUG  
 13797 GORANS, LARRY D

## 17TH AVE

2014

(Cont'd)

13864 1-M-1 PROPERTIES LLC  
 OCCUPANT UNKNOWN,  
 ROSSITER RICK  
 13886 PALERMO, KATHLEEN  
 13964 LANCASTER, CATHERINE A  
 14256 GARMAN, DEVIN L  
 14431 GREEN, MAXINE N  
 14499 JOHNSON, CARLY D  
 14500 GIBSON, CHRIS H  
 14581 HALEY DANNY L  
 HALEY, DANNY L  
 14614 DEMELLO MICHAEL  
 MACIEL, STEVE D  
 14684 VENTURELLA, DELMER W  
 14685 REA, RICHARD W  
 14866 CHRONISTER, KRISTIN M  
 15275 GARCIA, MANUEL A  
 15315 FRANNYS COUNTRY CURLS  
 GARCIA & SONS  
 GARCIA, MELVIN F  
 15359 OCCUPANT UNKNOWN,  
 15399 OCCUPANT UNKNOWN,  
 15405 OCCUPANT UNKNOWN,  
 15448 OCCUPANT UNKNOWN,  
 15540 JONES, LARRY A  
 15580 JACOBS, BRAD R  
 15644 ORTIZ, CHRIS  
 15831 THOMAS, ELMER S  
 15834 OCCUPANT UNKNOWN,  
 16053 BAGA, ROSE M  
 16061 BAGA, DENA B  
 16089 MORALES TRUCKING  
 MORALES, SALVADOR J  
 16119 GARCIA, AMADOR  
 16131 MARTINEZ, CAROLINE P  
 16147 JEFF, JIMMIE W  
 16155 ARELLANO, ROSA  
 16188 OCCUPANT UNKNOWN,  
 16201 JEFF, TRISHA  
 16235 GUTIERREZ, ERICA F  
 16269 OCCUPANT UNKNOWN,  
 16270 THOMAS, VIRGINIA V  
 16295 SORONDO, KATHLEEN S  
 16300 GONZALEZ, ERMA A  
 16389 OCCUPANT UNKNOWN,  
 16445 SANTA ROSA SARENTRIA  
 17001 DAMIANI, ALDEAN

## 17TH AVE 2010

7351 RODRIGUEZ, DEBBIE  
 8124 EVANGELO, JOHN D  
 9116 J & C WARMERDAM SPRAYING  
 WARMERDAM, JEROME C  
 9121 BOPARAI, JAGJIT S  
 9219 CREATIVE REALTY  
 SPURLOCK, TALMAGE S  
 9266 OCCUPANT UNKNOWN,  
 9308 SILVEIRA CUSTOM HARVESTING  
 SILVEIRA, RODNEY L  
 9357 FARIA, GERALD G  
 9495 OCCUPANT UNKNOWN,  
 9886 OCCUPANT UNKNOWN,  
 9908 RODRIGUES, STUART G  
 9920 LOPEZ, JAVIER  
 10150 RODRIGUES, TONY D  
 10228 SOARES, EDWARD M  
 10262 OCCUPANT UNKNOWN,  
 10310 BRAY, DEBRA  
 10510 BRAY, RICHARD K  
 SIK ADDICTIONZ INK  
 10532 COTA, RUDOLPH  
 10549 NORDSTROM ROGER L  
 NORDSTROM, ROGER L  
 10578 TIDWELL, JAMES T  
 10637 HERNANDEZ, TOMAS  
 10662 NORDSTROM, NEIL N  
 10712 OCCUPANT UNKNOWN,  
 10729 FERNANDES, JOE J  
 10730 JONES, KENNETH D  
 10833 HUGHES, DON D  
 10875 FRANKS, LOYD L  
 10911 OCCUPANT UNKNOWN,  
 10945 OCCUPANT UNKNOWN,  
 11028 JEHOVAHS WTNESSES LEMOORE CNTY  
 11070 SHANNON, ROBERT J  
 11108 RAEL, RANDY P  
 11164 SPERLICH, JAMES L  
 11194 MADDOX, ERIC L  
 11300 CHO, LELAND D  
 CW ENTERPRISES LP  
 WLJCC ENTERPRISES LP  
 11386 GILES VICTOR  
 GILES, VICTOR  
 11480 AGUILAR, SUGHEY C  
 11498 HOOD, MILES E  
 11516 SCHUSCHKE, MARILYN M  
 11550 DC ARMS FIREARMS & ACCESSORIES  
 11552 OCCUPANT UNKNOWN,  
 11561 FROELICH, PHILIP D



17TH AVE

2010

(Cont'd)

11575 BUSH, GREGORY W  
 11581 SHIMMON, JEFFREY D  
 11588 SOBOLEWSKI, CHRISTOPHER W  
 11595 DIAMOND WEDDING DESIGNS  
 WORRELL SCOTT  
 WORRELL, SCOTT J  
 11599 BAKER TOM ELECTRIC  
 BAKER, TOM B  
 TNT FITNESS  
 11600 DUTRA ERNEST  
 OCCUPANT UNKNOWN,  
 11606 ORTON, TNYRA M  
 11615 STICKLER, AMANDA L  
 11628 OCCUPANT UNKNOWN,  
 ROBERT JACOBS RENTALS  
 11630 SKAGGS, GEORGE N  
 11651 ETCHEBEHERE, JANE C  
 11652 RAY, DELBERT R  
 SMOG SHOP THE  
 11663 SHIMMON, RICHARD D  
 11673 WOODWARD, DAVID C  
 11686 FREER, ROBIN E  
 11748 THOMAS, WILMA L  
 11757 STREETER, BRADFORD E  
 11770 ELLBERG, KATHLEEN S  
 11771 VARGAS, STEVEN A  
 11853 BERNARD, GREGORY B  
 11900 MADD DOGG PAINTBALL  
 11926 W K NURSEY  
 11958 WEST VALLEY SUPPLY INC  
 12071 BELVAIL, KEN  
 CLARK, DENNY D  
 HAMPTON, JEFF T  
 MAGNIA, MARIA G  
 12085 VIGARIO, MICHAEL P  
 12115 MONTGOMERY, BETTY J  
 12167 LUIS, BEN L  
 12229 OCCUPANT UNKNOWN,  
 12287 VARGAS, TAVIN  
 12293 BRAY, JOHNMARY L  
 12325 OCCUPANT UNKNOWN,  
 12345 AVILA OLIVIA MARIA  
 RAMONA, MARIA  
 12361 AVILA, ANTONIO R  
 12384 PARSONS, EVELYN M  
 12386 ROBERTS, TERRY W  
 12390 DAROSA, ANTONIO M  
 12419 NEAL, GLEN E  
 12445 OCCUPANT UNKNOWN,  
 12499 OCCUPANT UNKNOWN,

17TH AVE

2010

(Cont'd)

12685 GONZALES, JESSE M  
 12913 NEILSEN, SHANE  
 13013 ROCHA, NANCY L  
 SOUTH VALLEY TRANSPLANT  
 13251 ROCHA, ANTHONY P  
 13531 STEFFENS, MICHAEL W  
 13541 HARRIS, LAWRENCE A  
 13610 CLARK, SHERRY D  
 13661 MATTINGLY, JAMES M  
 13705 STROLE DOUG  
 STROLE, DOUGLAS M  
 13797 GORANS, LARRY D  
 13864 1-M-1 PROPERTIES LLC  
 ROSSITER RICK  
 ROSSITER, RICHARD W  
 13886 PALERMO, E K  
 13964 OCCUPANT UNKNOWN,  
 14256 OCCUPANT UNKNOWN,  
 14431 GREEN, TOM D  
 14499 OCCUPANT UNKNOWN,  
 14500 GIBSON, CHRIS H  
 14581 HALEY DANNY L  
 HALEY, DANNY L  
 14614 DEMELLO MICHAEL  
 MACIEL ELECTRIC  
 MACIEL, STEVE D  
 14684 VENTURELLA, DELMER W  
 14685 REA, RICHARD W  
 14762 MAGANA, NICOLE  
 14866 EASLEY, STEVEN C  
 15273 GARCIA, MANUEL A  
 15315 FRANNYS COUNTRY CURLS  
 GARCIA & SONS  
 GARCIA, MELVIN F  
 15359 OCCUPANT UNKNOWN,  
 15399 OCCUPANT UNKNOWN,  
 15405 OCCUPANT UNKNOWN,  
 15448 CRAEN, RHONDA  
 15540 JONES, LARRY A  
 15580 JACOBS R E CNSTR A PARTNR  
 OCCUPANT UNKNOWN,  
 15644 OCCUPANT UNKNOWN,  
 15831 THOMAS, ELMER S  
 15834 OCCUPANT UNKNOWN,  
 16053 BAGA, ROSE M  
 16061 BAGA, VICTORIA L  
 16089 MORALES TRUCKING  
 MORALES, SALVADOR V  
 16131 OCCUPANT UNKNOWN,  
 16147 JEFF, JIMMIE W

**17TH AVE      2010      (Cont'd)**

16155 VILLANUEVA, GLORIA J  
16188 OCCUPANT UNKNOWN,  
16201 JEFF, GLENN  
16235 DICK, ERICA  
16270 THOMAS, ANTHONY  
16295 SORONDO, KATHLEEN S  
16300 MORALES, JANIE B  
16345 VARELA, VANESSA  
16386 SISCO, LEO J  
16389 OCCUPANT UNKNOWN,  
16445 MONTANEZ, ROSALIE M  
SANTA ROSA SARENTRIA  
17001 DAMIANI, ALDEAN

## 17TH AVE 2005

8124 EVANGELO, JOHN D  
 9116 J & C WARMERDAM SPRAYING  
 WARMERDAM, JEROME C  
 9121 BOPARAI, JAGJIT S  
 9219 CREATIVE REALTY  
 SPURLOCK, TALMAGE S  
 9266 LOPES, TREVOR E  
 9308 SILVEIRA CUSTOM HARVESTING  
 SILVEIRA, RODNEY L  
 9357 FARIA, GERALD G  
 9495 MENDES, BARBARA J  
 9886 TROVAO, HENRY M  
 9908 RODRIGUES, STUART G  
 10228 SOARES, EDWARD M  
 10262 OCCUPANT UNKNOWN,  
 10310 BRAY, DEBRA  
 10510 BRAY, RICHARD K  
 10532 COTA, ANGIE H  
 10549 NORDSTROM ROGER L  
 NORDSTROM, ROGER L  
 10578 TIDWELL, JAMES T  
 10637 PEREGRINO, WINFORD  
 10662 NORDSTROM, NEIL N  
 10689 MORALES, SALVADOR  
 10712 FERNANDEZ, MANUEL F  
 10729 FERNANDES, JOE J  
 10730 JONES, KENNETH D  
 10833 HUGHES, DON D  
 10875 FRANKS, LOYD L  
 10911 DUPREE, KATHLEEN C  
 10945 SILVA, RONALD O  
 11028 JEHOVAHS WTNESSES LEMOORE CNTY  
 11070 SHANNON, ROBERT J  
 11108 RAEL, RANDY P  
 11164 SPERLICH, JAMES L  
 11386 GILES VICTOR  
 GILES, VICTOR  
 11480 PACHECO, CECILIA E  
 11498 HOOD, MILES E  
 11516 SCHUSCHKE, ROY E  
 11550 CAIN, DAVID R  
 DC ARMS FIREARMS & ACCESSORIES  
 11552 OCCUPANT UNKNOWN,  
 11561 BUSH, GREGORY  
 11575 BUSH, GREGORY W  
 11588 SOBOLEWSKI, CHRISTOPHER  
 11595 WORRELL, SCOTT J  
 11599 BAKER TOM ELECTRIC  
 OCCUPANT UNKNOWN,  
 11600 DUTRA ERNEST

17TH AVE

2005

(Cont'd)

11600 DUTRA, ERNEST J  
 11606 ORTON, TNYRA M  
 11615 SHIMMON, JEFFREY D  
 11628 PATTY, DEAN P  
 11630 SKAGGS, GEORGE N  
 11651 ETCHEBEHERE, JANE C  
 11652 RAY, DELBERT R  
       SMOG SHOP THE  
 11663 OCCUPANT UNKNOWN,  
 11673 OCCUPANT UNKNOWN,  
 11686 THYRA, ORTON  
 11741 JEFF, C  
 11748 THOMAS, BETSY A  
 11757 STREETER, BRADFORD E  
 11771 VARGAS, STEVEN A  
 11853 BERNARD, GREGORY B  
 11900 PARANOID PAINTBALL  
 11926 W K NURSEY  
 11958 WEST VALLEY SUPPLY INC  
 12071 BELVAIL, KEN  
       CLARK, DENNY D  
       CLARKS DESIGN & FABRICAT  
       OCCUPANT UNKNOWN,  
 12085 OCCUPANT UNKNOWN,  
 12115 MONTGOMERY, BETTY J  
 12167 LUIS, BEN J  
 12229 OWENS, MARY  
 12293 OCCUPANT UNKNOWN,  
 12325 OCCUPANT UNKNOWN,  
 12345 MENDES, JOHN L  
 12361 J & B GOAT DAIRY  
       OCCUPANT UNKNOWN,  
 12384 NORRIS, AMANDA  
 12386 ROBERTS, TERRY W  
 12390 OCCUPANT UNKNOWN,  
 12445 OCCUPANT UNKNOWN,  
 12499 MARSH, ROBERT A  
 12913 HURLEY, JAMISON  
 13013 ROCHA, NANCY L  
 13541 HARRIS, LAWRENCE A  
 13610 CLARK, EDWARD C  
 13661 MATTINGLY, JAMES M  
 13705 STROLE, DOUGLAS S  
 13797 GORANS, LARRY D  
 13864 1M1 PROPERTIES LLC  
       ROSSITER RICK  
       ROSSITER, RICHARD W  
 13886 PALERMO, JACK L  
 13964 GATES, SHELDON  
 14256 OCCUPANT UNKNOWN,

17TH AVE

2005

(Cont'd)

14431 CREATED  
 GREEN TOM D MAXINE B  
 GREEN, TOM D  
 14499 OCCUPANT UNKNOWN,  
 14500 GIBSON, CHRIS H  
 14581 HALEY, DANNY L  
 14614 DEMELLO MICHAEL  
 DEMELLO, JOHN M  
 MACIEL ELECTRIC  
 14685 REA, RICHARD W  
 14762 WHITESIDE, HELEN  
 14866 EASLEY, ORVEL C  
 15273 GARCIA, MANUEL A  
 15275 OCCUPANT UNKNOWN,  
 15315 FRANNYS COUNTRY CURLS  
 GARCIA, MELVIN F  
 15359 GARCIA, GREG  
 15399 OCCUPANT UNKNOWN,  
 15405 GARCIA & SONS  
 GARCIA, JOHN M  
 15448 JACOBS, RICHARD E  
 15540 JONES, LARRY A  
 15580 OCCUPANT UNKNOWN,  
 15644 NEAL, GLEN E  
 15834 OCCUPANT UNKNOWN,  
 16053 BAGA, ROSE M  
 16089 MORALES TRUCKING  
 THOMPSON, DONZA R  
 16119 MARTINEZ, RAFAELLA  
 16131 OCCUPANT UNKNOWN,  
 16147 OCCUPANT UNKNOWN,  
 ONE STOP AUTO DETAILING  
 16155 OCCUPANT UNKNOWN,  
 16188 OCCUPANT UNKNOWN,  
 16201 FOX, FRANCO  
 16270 THOMAS, ANTHONY  
 16295 SORONDO, KATHLEEN S  
 16300 MORALES, JANIE  
 16345 VARELA, JOSE G  
 16360 OCCUPANT UNKNOWN,  
 16386 SISCO, LEO J  
 16389 DICK, BENNY  
 16392 OCCUPANT UNKNOWN,  
 16395 JEFF, TERRI  
 16397 OCCUPANT UNKNOWN,  
 16400 OCCUPANT UNKNOWN,  
 16426 LEWIS, PATRICIA D  
 16444 DAVIS, JOHN  
 16445 SANTA ROSA SARENTRIA  
 16474 YSMAEL, M



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**17TH AVE**

**2005**

**(Cont'd)**

17001 MARTIN, SHERRIE

## 17TH AVE 2000

8124 EVANGELO, JOHN  
 9121 BOPARAI, JAGJIT S  
 9219 SPURLOCK, T S  
 9266 JW DAULTON CONSTRUCTION  
 9308 ADAMSON, EDNA K  
 SILVEIRA CUSTOM HARVESTING  
 9357 FARIA, GERALD  
 9495 OCCUPANT UNKNOWN,  
 9908 RODRIGUES, STUART G  
 9920 OCCUPANT UNKNOWN,  
 10228 SOARES, EDWARD  
 10510 BRAY, DEBBIE  
 SOUZA, EUGENE  
 10532 COTA, RUDY  
 10549 MCGEE, ROBERT J  
 10578 PAULINE TIDWELL INCOME TAX  
 TIDWELL, JAMES T  
 10637 EDDINGS, TOM G  
 10662 NORDSTROM, NEIL  
 10712 OCCUPANT UNKNOWN,  
 10729 FERNANDES, JOE  
 10730 HOLT, MARIE  
 10833 FARRELL, J  
 HUGHES, DON  
 10875 FRANKS, LOYD L  
 10911 HUGHES, MICHAEL G  
 10945 SILVA, RONALD  
 11028 JEHOVAHS WITNESSES LEMOORE CO  
 11300 OCCUPANT UNKNOWN,  
 11498 HOOD, MILES E  
 11516 OSBORN, MICHAEL J  
 11550 OCCUPANT UNKNOWN,  
 11575 OCCUPANT UNKNOWN,  
 11588 SMITH, WADE  
 11595 WORRELL, SCOTT  
 11599 OCCUPANT UNKNOWN,  
 11600 DUTRA ERNEST  
 DUTRA, ERNEST  
 11628 OCCUPANT UNKNOWN,  
 11651 ETCHEBEHERE, JANE M  
 11652 RAY, DELBERT L  
 11686 ORTON, THYRA  
 11741 LOWE, V  
 11748 THOMAS, WILMA L  
 11757 OCCUPANT UNKNOWN,  
 11770 ELLBERG, SHAWN R  
 11771 MCKEVER, VINCENT A  
 11853 OCCUPANT UNKNOWN,  
 11926 W K NURSEY  
 11958 WEST VALLEY SUPPLY INC



17TH AVE

2000

(Cont'd)

12071 BELVAIL, KEN  
 CLARK, DENNY  
 12085 VIGARIO, MIKE  
 12115 MONTGOMERY, RICHARD  
 12287 HARVILL, KELLY D  
 12345 J & B GOAT DAIRY  
 MENDES, JOSE F  
 12384 OCCUPANT UNKNOWN,  
 12386 DANIEL, NINA  
 12390 MERCER, SCOTT W  
 12419 BROOKS, CHRISTI L  
 12445 OCCUPANT UNKNOWN,  
 12499 OCCUPANT UNKNOWN,  
 12913 HAWKER, ERIC R  
 JAMISON, DOROTHY W  
 ROSCA, RICHARD  
 13013 ROCHA, A P  
 13541 HARRIS, L A  
 13661 KERSHISNIK, JACK  
 13797 OCCUPANT UNKNOWN,  
 13864 ROSSITER RICK  
 ROSSITER, RICHARD W  
 13886 PALERMO, JACK  
 13964 GATES, SHELDON  
 14210 OCCUPANT UNKNOWN,  
 14256 OCCUPANT UNKNOWN,  
 14431 GREEN TOM D MAXINE B  
 OCCUPANT UNKNOWN,  
 14499 OCCUPANT UNKNOWN,  
 14500 OCCUPANT UNKNOWN,  
 14571 OCCUPANT UNKNOWN,  
 14581 HALEY, DANNY L  
 14614 DEMELLO, BRENDA  
 14685 REA, RICHARD W  
 14762 WHITESIDE, LEONARD A  
 14866 EASLEY, ORVEL  
 15273 GARCIA, MANUEL A  
 15275 GARCIA, MANUEL  
 15315 FRANNYS COUNTRY CURLS  
 GARCIA, MELVIN  
 15350 OCCUPANT UNKNOWN,  
 15359 OCCUPANT UNKNOWN,  
 15399 OCCUPANT UNKNOWN,  
 15405 GARCIA & SONS  
 GARCIA, JOHN  
 15540 JONES, LARRY  
 15580 JACOBS, RICHARD  
 15831 OCCUPANT UNKNOWN,  
 16089 MORALES TRUCKING  
 THOMPSON, DONZA R

**17TH AVE**

**2000**

**(Cont'd)**

16117 OCCUPANT UNKNOWN,  
16119 MARTINEZ, R  
16131 OCCUPANT UNKNOWN,  
16145 OCCUPANT UNKNOWN,  
16188 OCCUPANT UNKNOWN,  
16201 OCCUPANT UNKNOWN,  
16270 OCCUPANT UNKNOWN,  
16295 OCCUPANT UNKNOWN,  
16300 OCCUPANT UNKNOWN,  
16345 OCCUPANT UNKNOWN,  
16386 OCCUPANT UNKNOWN,  
16389 BARRIOS, THERESA  
16397 OCCUPANT UNKNOWN,  
16398 OCCUPANT UNKNOWN,  
16399 OCCUPANT UNKNOWN,  
16405 OCCUPANT UNKNOWN,  
16445 CENTER SARENTRIA TRIBAL CENTER  
17001 DAMIANI, LOUIS  
18801 JERRYS HARDWARE

## 17TH AVE 1995

7143 SCHULTZ, ED  
 9121 KLEINHAMMER, SPENCER  
 9219 SPURLOCK, T S  
 9266 JW DAULTON CONSTRUCTION  
 SILVEIRA, JOHN S  
 9308 SILVEIRA, RODNEY  
 9357 FARIA, GERALD  
 9495 EATMON, DONALD H  
 9908 OCCUPANT UNKNOWNN  
 10228 SOARES, EDWARD  
 10262 GUZMAN, ISRAEL  
 10510 MATTHIESEN, JOHN G  
 10532 COTA, RUDY  
 10549 NORDSTROM, ROGER L  
 10578 TIDWELL, JAMES T  
 10637 LAWRENCE ELECTRIC  
 10662 NORDSTROM, NEIL  
 10712 SLATER, ARNOLD E  
 10729 FERNANDES, JOE JR  
 THETA TAU THETA INC  
 10730 SHORE, LUTHER  
 10833 HALL, DONNA M  
 10875 FRANKS, LOYD L  
 10911 OCCUPANT UNKNOWNN  
 10945 SILVA, RONALD  
 11300 FLOWE, CURTIS G  
 11480 OCCUPANT UNKNOWNN  
 11498 HOOD, MILES E  
 11516 SCHUSCHKE, ROY E  
 11550 OCCUPANT UNKNOWNN  
 11552 OCCUPANT UNKNOWNN  
 11588 SMITH, WADE  
 11595 HENDRIX, CHARLIE  
 11600 DUTRA, ERNEST  
 11627 OCCUPANT UNKNOWNN  
 11628 JIMS ACE HARDWARE STORE  
 OCCUPANT UNKNOWNN  
 11651 ETCHEBEHERE, PIERRE  
 11652 RAY, DELBERT L  
 11663 BELING, SUSAN E  
 11673 OCCUPANT UNKNOWNN  
 11686 ORTON, MICHAEL R  
 11741 LOWE, V  
 11748 THOMAS, WILMA L  
 11757 STREETER, B E  
 11770 WEIKLE, HENRY  
 11771 MCKEVER, VINCENT A  
 11926 SEVENTEENTH GREEN ON TARGET  
 11958 WEST VALLEY SUPPLY INC  
 12071 CLARK, DENNY

## 17TH AVE

1995

(Cont'd)

12071 CLARKS DESIGN & FABRICAT  
WILSON, HOLLIE F

12085 VIGARIO, MIKE

12115 MONTGOMERY, RICHARD

12287 OCCUPANT UNKNOWNN

12325 LINDBER, TINA

12345 OCCUPANT UNKNOWNN

12384 PEREZ, MOSES

12419 BROOKS, DEBRA

12499 BROWN, FRANK

12913 JAMISON, DONALD C  
MCCLOSKEY, SEAN O

13013 ROCHA, A P

13531 OCCUPANT UNKNOWNN

13541 HARRIS, L A

13604 CLARK, EDWARD P

13661 KERSHISNIK, JACK

13705 STROLE, DOUG

13797 GORANS, LARRY D

13864 ROSSITER, RICHARD W

13886 PALERMO, JACK

13964 GATES, SHELDON

14210 ORTUZAR, ISIDRO

14256 GREEN, TOM D

14431 GREEN, TOM D

14499 OCCUPANT UNKNOWNN

14500 OCCUPANT UNKNOWNN

14581 HALEY, DANNY L

14762 WHITESIDE, LEONARD A

14866 EASLEY, ORVEL

14915 OCCUPANT UNKNOWNN

15315 FRANNYS COUNTRY CURLS  
GARCIA, MELVIN

15359 OCCUPANT UNKNOWNN

15399 GARCIA, MANUEL A

15405 GARCIA & SONS  
GARCIA, JOHN

15448 HOUSE, RICHARD D

15540 JONES, LARRY

15644 ANDRADA, TONY

15831 ALEXANDER, DAVID

16089 CAZARES, ANTONIO

16145 SALCIDO, REFUDIO D

16300 MORALES, FIDEL

16398 DAVIS, SUZANNE

17001 DANIANI, LOUIS

## 17TH AVE 1992

9121 KLEINHAMMER THOMAS E  
 9219 SPURLOCK, T S  
 9308 SILVEIRA, RODNEY  
 9495 LOEWEN, STEVEN D  
 9908 RODRIGUES, STUART G  
 10510 MATTHIESEN, JOHN G  
 10532 COTA, RUDY  
 10578 TIDWELL CONSTRUCTION  
 TIDWELL POLLINATION  
 TIDWELL, JAMES T  
 10662 NORDSTROM AG SPRAYING  
 NORDSTROM, NEIL  
 10712 SLATER, ARNOLD E  
 10729 FERNANDES, JOE JR  
 10730 SHORE, LUTHER  
 10833 HALL, D M  
 10875 FRANKS, LOYD L  
 11498 HOOD, MILES E  
 11516 SCHUSCHKE, ROY E  
 11550 YOUNG, MARTIN  
 YOUNGS PLANTS  
 11588 SMITH, WADE  
 11600 DUTRA, ERNEST  
 11628 JIMS ACE HARDWARE STORE  
 LAURENT, JAMES R  
 11651 ETCHEBEHERE, PIERRE  
 11748 THOMAS, WILMA L  
 11770 WEIKLE, HENRY  
 11771 MCKEVER, VINCENT A  
 11958 WEST VALLEY SUPPLY INC  
 12071 CLARK, DENNY  
 CLARKS DESIGN & FABRICAT  
 12085 VIGARIO, MIKE  
 12115 MONTGOMERY, RICHARD  
 12345 MENDES, JOSE F  
 12499 BROWN, FRANK  
 12913 THOMAS, GREGORY M  
 13013 ROCHA, A P  
 13251 ROCHA ANTHONY P  
 13541 HARRIS, L A  
 13705 STROLE, DOUG  
 13797 GORANS, LARRY D  
 13864 ROSSITER, RICHARD W  
 13886 PALERMO, JACK  
 13964 GATES, SHELDON  
 14210 ORTUZAR, ISIDRO  
 14431 GREEN, TOM D  
 14499 ENES, JOHN  
 14581 HALEY, DANNY L  
 14685 REA, RICHARD

**17TH AVE**

**1992**

**(Cont'd)**

14762 WHITESIDE, LEONARD A  
15315 FRANNYS COUNTRY CURLS  
GARCIA, MELVIN  
15359 GARCIA, KENNY  
15399 GARCIA, MANUEL A  
15405 GARCIA & SONS  
GARCIA, JOHN  
15448 HOUSE, R D  
15540 JONES, LARRY  
15644 ANDRADA, TONY  
16398 DAVIS, SUZANNE

17TH AVE 1985

15100	XXXX	00	
15315	FRANNIES CHTRY CURL	924-5529	4
	GARCIA MELVIN	924-5529	4
15359	GARCIA JOSE	924-2459	
15399	GARCIA MANUEL A	924-4080	4
15405	GARCIA JOHN	924-5515	
15448	HOUSE R D MRS	924-5514	
15540	VANLANGEN JAS	924-7603	+5
15644	ANDRADA TONY	924-2500	
15831	XXXX	00	
15834	XXXX	00	
16031	XXXX	00	
16061	XXXX	00	
16069	MORALES SALVADOR	924-4191	1
16131	XXXX	00	
16155	JEFF G J	924-3567	2
16188	XXXX	00	
16397	DAVIS SUZANNE	924-8523	9
17001	DANIANI LOUIS	924-5431	
18801	DONHAM E L	947-3290	
★	5 BUS	94 RES	5 NEW

17TH AVE 1980

14888	WHITESIDE A	924-2822	
15100	XXXX	00	
15359	GARCIA JOSE	924-2459	3
15399	FRANNIES CNTRY CURL	924-5529	5
	GARCIA MELVIN	924-5529	
15405	GARCIA JOHN	924-5515	3
	GARCIA MANUEL A	924-4080	9
15448	HOUSE R D MRS	924-5514	
15540	JACOBS ROBERT	924-5801	+0
15644	ANDRADA TONY	924-2800	
15831	HOLIHAN THOMAS J	924-5936	+D
15834	WALL RICHARD E	924-4887	9
16031	MILLER CHARLES	924-5776	9
16061	BAGA ROSE	924-4476	8
16131	XXXX	00	
16188	RODRIGUEZ LAWRENCE	924-9017	9
16397	DAVIS SUZANNE	924-8523	9
17001	DANIANI LOUIS	924-5431	4
	5 BUS	87 RES	15 NEW



## 17TH AVE

1975

15100	XXXX	CO
15359	GARCIA JOSE	924-2459 3
15399*	FRANNIES CNTRY CURL	924-5529+5
	GARCIA MELVIN	924-5529
15405	GARCIA JOHN	924-5515 3
15448	HOUSE R D MRS	924-5514
15644	ANDRADA TONY	924-2500
15831	MCINTURFF DAVID L	924-4189
	MCINTURFF MINA 8	924-4189
15834	ORNELLAS EUGENE	924-5519
16031	XXXX	CO
16131	DAVIS HARVEY JR	924-4468+5
16188	ANDRADA MAUDE	924-5477
16984	PROBY PETE MARCELL	924-4123+5
17001	DANIANI LOUIS	924-5431 4
	* 2 BUS 82 RES	11 NEW

# ***APPENDIX F***

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*RESUMES*

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## David Zweig, PE, President

**Education:** B.S., Civil Engineering, University of California, Berkeley

**Registration:** California P.E. License #C048031; Washington P.E. License #28181

Mr. Zweig is experienced in preparing both routine and complex Phase I and Phase II Environmental Site Assessments, water rights permitting and regulatory compliance, and conducting water quality monitoring. Mr. Zweig has provided technical oversight and completed numerous Phase I and Phase II hazardous materials investigations for public agencies and private parties throughout California and the U.S. Mr. Zweig is very familiar with the regulatory issues faced by private industry and public agencies, and is adept at facilitating compliance with local, state and federal environmental laws. A partial listing of recent Phase I and Phase II reports completed by AES is provided below.

- 17<sup>th</sup> and Q Street Property **Phase I ESA**, Sacramento County, CA
- 1811 12<sup>th</sup> Street **Phase I ESA**, Sacramento County, CA
- 2000 O Street 3 Parcel **Phase I ESA**, Sacramento County, CA
- 2020 W El Camino 16-acre **Phase I ESA**, Sacramento County, CA
- 2327 L Street 0.22-acre Parcel **Phase I ESA**, Sacramento County, CA
- 2401 J Street 0.45-acre **Phase I ESA**, Sacramento County, CA
- 2816 D Street Dwellings 2 Parcel **Phase I ESA**, Sacramento County, CA
- 3031 F Street 0.44-acre **Phase I ESA**, Sacramento County, CA
- 730 Howe Avenue **Phase I ESA**, Sacramento County, CA
- 825 15th Street 0.40± acre **Phase I ESA**, Sacramento County, CA
- City of Sacramento - McKinley Village Residential Infill **EIR/Phase I/II ESA**, Sacramento County, CA
- MJL Properties - 3516 Fair Oaks Boulevard 0.36 acre **Phase I ESA**, Sacramento County, CA
- Natomas Park Drive **Phase I ESA**, Sacramento County, CA
- Overnite Transportation - 10000 Waterman Road 54.7-acre **Phase I ESA**, Sacramento County, CA
- Shirland Tract 41-acre **Phase I ESA**, Sacramento County, CA
- Clover Valley Reservoir 35-acre **Phase I ESA**, Placer County, CA
- Thunder Valley Casino **Phase I ESA**, Placer County, CA
- UAIC 1,100-acre Housing Project Fee-to-Trust **EA, Phase I ESA**, Placer County, CA
- Shingle Springs Rancheria Casino **Phase I ESA**, El Dorado County, CA
- 210 N East Road Woodland **Phase I ESA**, Yolo County, CA
- Sugarloaf Ranch **Phase I ESA**, Yolo County, CA
- 2050 Nut Tree 4.15-acre **Phase I ESA**, Solano County, CA
- 1144 Starr View Road **Phase I ESA**, Sonoma County, CA
- 1398 Gumview Road **Phase I ESA**, Sonoma County, CA
- 1486 Gumview Road **Phase I ESA**, Sonoma County, CA
- 18 East Fulton Road **Phase I ESA**, Sonoma County, CA
- 437 Aviation Boulevard 1.74-acre **Phase I ESA**, Sonoma County, CA
- Cloverdale Rancheria Casino Lease **Phase I ESA**, Sonoma County, CA
- Ernst Property **Phase I ESA**, Sonoma County, CA
- Graton Rancheria Casino 300-acre **Phase I/II ESA**, Sonoma County, CA
- Jordan Vineyard **Phase I ESA**, Sonoma County, CA
- SLAC **Phase I ESA**, Sonoma County, CA
- Colusa Residential Development **Phase I ESA**, Colusa County, CA
- Point Molate Casino and Resort **Phase I ESA**, Contra Costa County, CA
- San Pablo Lytton Casino **Phase I ESA**, Contra Costa County, CA
- Scotts Valley 2 Parcel-155 Parr Boulevard **Phase I ESA**, Contra Costa County, CA

- Enterprise Rancheria 40-acre Property **Phase I ESA**, Butte County, CA
- Mechoopda Casino 650-acre Casino **Phase I ESA**, Butte County, CA
- Amador Water Agency - 44.6-acre **Phase I ESA**, Amador County, CA
- Ione Band of Miwok Indians 228.04-acre **Phase I ESA**, Amador County, CA
- Lower Lake Rancheria Koi Nation Casino **Phase I ESA**, Alameda County, CA
- Elk Valley Rancheria Tribal Office **Phase I ESA**, Del Norte County, CA
- Bear River Band Casino 18-acre Property **Phase I ESA**, Humboldt County, CA
- Big Lagoon Rancheria Casino 11-acres **Phase I ESA**, Humboldt County, CA
- Blue Lake Rancheria Casino **Phase I ESA**, Humboldt County, CA
- Fearrian 125-acre Property **Phase I ESA**, Humboldt County, CA
- Hoopa Valley Tribe Saw Mill Site (Portions of Lots 283-298) **Phase I ESA**, Humboldt County, CA
- Alturas Indian Rancheria Shasta Mountain Facility 160-acre **Phase I ESA**, Siskiyou County, CA
- Ewiiapaayp Walker Parcel 16.69-acre **Phase I ESA**, Alpine County, CA
- Grindstone Rancheria Casino 109-acre **Phase I ESA**, Glenn County, CA
- Coyote Valley **Phase I ESA**, Mendocino County, CA
- Pinoleville Casino **Phase I ESA**, Mendocino County, CA
- Upper Lake Casino and Resort **Phase I ESA**, Lake County, CA
- Paskenta Property **Phase I ESA**, Tehama County, CA
- 1001 Van Ness Avenue +0.75-acre **Phase I ESA**, San Francisco County, CA
- Milbanks **Phase I ESA**, San Francisco County, CA
- Federico's Restaurant 15,000 square foot **Phase I ESA**, Santa Barbara County, CA
- Santa Ynez Band of Chumash Indians Casino Expansion **Phase I ESA**, Santa Barbara County, CA
- Royal Scandinavian Inn 3.87-acre **Phase I ESA**, Santa Barbara County, CA
- Table Mountain Rancheria 170-acre **Phase I ESA**, Fresno County, CA
- North Fork Casino 305-acre Property **Phase I ESA**, Madera County, CA
- North Fork Rancheria 80-acre Property **Phase I ESA**, Madera County, CA
- 180 Litton Drive 4.5-acre **Phase I ESA**, Nevada County, CA
- Washoe Tribe of Nevada and California - Pinenut Road Property **Phase I ESA**, Douglas County, NV
- Barstow Casino and Resort **Phase I ESA**, San Bernardino County, CA
- Timbisha Shoshone 58.08-acre Property **Phase I ESA**, San Bernardino County, CA
- Desert Mobile Home Park (Duroville) **Phase I/Phase II ESA**, Riverside County, CA
- Jamul Tribe Casino **Phase I ESA**, San Diego County, CA
- La Jolla Casino **Phase I ESA**, San Diego County, CA
- Pauma Band of Luiseno Indians **Phase I ESA**, San Diego County, CA
- San Pasqual 3.25-acre Property Overview/**Phase I ESA**, San Diego County, CA
- Sycuan Property 1,357-acres **Phase I ESA**, San Diego County, CA
- Torrez Martinez 20-acre Property **Phase I ESA**, Imperial County, CA
- Chicken Ranch Rancheria 47.25-acre **Phase I ESA**, Tuolumne County, CA
- Samish Indian Nation **Phase I ESA**, City of Anacortes, Skagit County, WA
- Ho-Chunk Beloit Casino **Phase I ESA**, City of Beloit, Rock County, WI

# Dave Pfuhler

## Biologist



ANALYTICAL  
ENVIRONMENTAL  
SERVICES

### Education

B.S. Environmental  
Science/ Natural  
Resource Management  
SUNY Binghamton  
University

### Qualifications

- 3 years of experience working with governmental agencies and assisting in fisheries projects.
- Skilled in biological data analysis and statistical modeling.

Mr Pfuhler serves as an biologist, writer, and editor on various CEQA and NEPA documents, and provides professional consulting services to private clients and Native American tribes. Prior to working with AES, his experiences were in both the public and private environmental sector. He is a skilled writer with a background in scientific writing. Mr. Pfuhler is knowledgeable in environmental regulatory processes, with experience involving biological resources, transportation and traffic, and noise pollution. He provides consultation and guidance for environmental issues, other regulatory processes, and coordinates with lead agencies, engineers, and sub-consultants in preparing documents. He has completed documents that include environmental impact statements, environmental assessments, permitting, and environmental overviews required for NEPA/CEQA compliance.

### Representative Project Experience

- Millerton Road- SWPPP development, Friant CA
- Lytton Tribal Housing- SWPPP development- Windsor, CA
- Residences at 5 Creeks housing developemnt- SWPPP support, Rohnert Park, CA
- Stones Throw at Winters K Hovnanian Homes- SWPPP development, Winters, CA
- North River Apartment/ Retail complex AG Spanos- SWPPP development, VOC General Fuels Permitting, Petaluma CA
- Caselman Ranch South Subdivision- SWPPP development, Sacramento, CA
- Pacific Locomotive Association- Industrial Storm Water plan development, Sunol, CA

# ***APPENDIX G***

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## *FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP*

# National Flood Hazard Layer FIRMette



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/24/2020 at 2:22:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

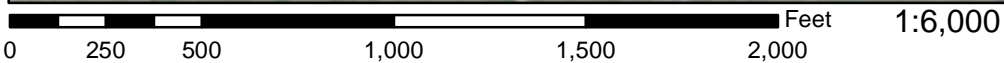
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

36°14'32.73"N

119°46'30.96"W



USGS The National Map: Orthoimagery, Data refreshed April, 2019.



36°14'3.71"N

119°45'53.51"W

# ***APPENDIX H***

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## ***INTERVIEWS AND QUESTIONNAIRES***





ANALYTICAL ENVIRONMENTAL SERVICES

1801 7TH STREET, SUITE 100

SACRAMENTO, CA 95811

(916) 447-3479 | FAX (916) 447-1665

## PROPERTY OWNER QUESTIONNAIRE

**DATE:** March 16, 2020

**RE:** Phase I ESA; Lemoore, CA

To Whom it May Concern,

Please complete the property owner questionnaire below regarding the “Alvarado Parcels” (Subject Property) identified by Kings County Assessor’s Parcel Number **(APN) 024-160-023, 024-160-024, 024-160-005, and 024-160-006**. You are being asked to provide information and insight to assist in the preparation of the Phase I Environmental Site Assessment (Phase I ESA) for the Subject Property. Please provide as much information as you can to assist in this effort. Feel free to attach extra sheets/reports if the space provided is not sufficient.

Please fax/send the completed property owner questionnaire to:

**Analytical Environmental Services**

Attn: David Zweig

1801 7<sup>th</sup> Street, Suite 100

Sacramento, CA 95811

**Telephone:** (916) 447-3479

**Fax:** (916) 447-1665

**E-Mail:** [dzweig@analyticalcorp.com](mailto:dzweig@analyticalcorp.com)

QUESTION	ANSWER	REPOSSES TO "YES" QUESTIONS
1. Is the Subject Property or any adjoining property currently used for industrial purposes?	Subject Property: NO <u>UNK</u> YES  Adjoining Property: NO <u>UNK</u> YES	
2. To the best of your knowledge, has the Subject Property or any adjoining property been used for industrial purposes in the past?	Subject Property: NO <u>UNK</u> YES  Adjoining Property: NO <u>UNK</u> YES	
3. Is the Subject Property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Subject Property: NO <u>UNK</u> YES  Adjoining Property: NO <u>UNK</u> YES	
4. To the best of your knowledge, has the Subject Property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Subject Property: NO <u>UNK</u> YES  Adjoining Property: NO <u>UNK</u> YES	
5. Has fill dirt been brought onto the Subject Property that originated from a contaminated site or that is of an unknown origin?	NO <u>UNK</u> YES	
6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the Subject Property or at the facility?	Currently? NO <u>UNK</u> YES  Historically? NO <u>UNK</u> YES	
7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55-gallon (208 liters) or sacks of chemicals located on the Subject Property or at the facility?	Currently? NO <u>UNK</u> YES  Historically? NO <u>UNK</u> YES	

<p>8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the Subject Property in connection with waste treatment or waste disposal?</p>	<p>Currently? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES Historically? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the Subject Property?</p>	<p>Currently? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES Historically? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the Subject Property?</p>	<p>Currently? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES Historically? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the Subject Property or adjacent to any structure located on the Subject Property?</p>	<p>Currently? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES Historically? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?</p>	<p>Currently? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES Historically? NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>13. If the Subject Property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?</p>	<p>NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>14. Does the owner or occupant of the Subject Property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the Subject Property or any facility located on the Subject Property?</p>	<p>NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	
<p>15. Has the owner or occupant of the Subject Property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the Subject Property or any facility located on the Subject Property?</p>	<p>NO <input checked="" type="radio"/> UNK <input type="radio"/> YES</p>	

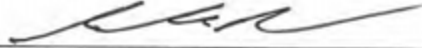
16. Does the owner or occupant of the Subject Property have any knowledge of any environmental site assessment of the Subject Property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the Subject Property or recommended further assessment of the Subject Property?	NO <input checked="" type="radio"/> UNK <input type="radio"/> YES	
17. Does the owner or occupant of the Subject Property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the Subject Property by any owner or occupant of the Subject Property?	NO <input checked="" type="radio"/> UNK <input type="radio"/> YES	
18. Does the Subject Property discharge wastewater on or adjacent to the Subject Property other than stormwater into a sanitary sewer system?	NO <input checked="" type="radio"/> UNK <input type="radio"/> YES	
19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the Subject Property?	NO <input checked="" type="radio"/> UNK <input type="radio"/> YES	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	NO <input checked="" type="radio"/> UNK <input type="radio"/> YES	

21. How do you currently use the Subject Property and how have you used the Subject Property in the past? Please be specific. **NO USE**

22. What is your understanding of how the Subject Property was used before your ownership/occupancy? **UNKNOWN**

I hereby certify that to the best of my knowledge all of the information provided in this environmental questionnaire is true and correct.

Signature: \_\_\_\_\_



Print Name / Address: STR-TYT 16835 ALKALI DR / P.O. Box 8  
LEMORE, CA 93245

Phone Number: 559 924 1278

Date Complete: 5.13.2020

Relation to Subject Property (circle one):

owner

operator

manager

tenant



**ANALYTICAL ENVIRONMENTAL SERVICES**  
1801 7TH STREET, SUITE 100  
SACRAMENTO, CA 95811  
(916) 447-3479 | FAX (916) 447-1665

## **USER QUESTIONNAIRE**

**DATE:** March 16, 2020  
**RE:** Phase I ESA; Lemoore, CA

Per ASTM Standard Practice E 1527-13, Section 6, User Responsibilities, the User of an Environmental Site Assessment (ESA) has specific obligations for performing tasks during the ESA that will help identify the possibility of *recognized environmental conditions* in connection with the Subject Property (Kings County Assessor's Parcel Number (**APN**) **024-160-023, 024-160-024, 024-160-005, and 024-160-006**). Failure by the User to fully comply with the requirements may result in a *data gap* being identified in the report and may impact the ability to use the report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). If this questionnaire is not returned to Analytical Environmental Services (AES) prior to issuance of the draft Phase I report, then AES assumes that the User does not have any information or actual knowledge pursuant to ASTM Standard Practice E 1527-13, Section 6, User Responsibilities. AES makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

Please complete the following and return immediately via email or fax to the attention of:

**Analytical Environmental Services**

Attn: David Zweig  
1801 7<sup>th</sup> Street, Suite 100  
Sacramento, CA 95811

**Telephone:** (916) 447-3479  
**Fax:** (916) 447-1665  
**E-Mail:** [dzweig@analyticalcorp.com](mailto:dzweig@analyticalcorp.com)

If other parties are intending to be the users of the ESA report, then please forward a copy of this questionnaire for them to complete and return to AES. Thank you for your help and cooperation.

Please provide the following information (if available) per the requirements of ASTM Standard Practice E 1527-13.

**1. Environmental cleanup liens that are filed or recorded against the Subject Property (40 CFR 312.25)**

Are you aware of any environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state, or local law? Yes  or No  If yes, please provide a description of the lien(s).

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**2. Activity and land use limitations (AULs) that are in place on the Subject Property or that have been filed or recorded in a registry (40 CFR 312.26)**

Are you aware of any AULs, such as engineering controls, land use restrictions, or institutional controls that are in place at the Subject Property and/or have been filed or recorded in a registry under federal, tribal, state, or local law? Yes  or No  If yes, please provide.

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**3. Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28)**

As the user of the Subject Property, do you have any specialized knowledge or experience related to the Subject Property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the Subject Property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? Yes  or No  If yes, please explain.

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**4. Relationship of the purchase price to the fair market value of the Subject Property if it were not contaminated (40 CFR 312.29)**

- a. Does the purchase price being paid for this Subject Property reasonably reflect the fair market value of the Subject Property? Yes  or No

UNKNOWN

- b. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Subject Property? Yes  or No  If yes, please explain.

UNKNOWN

5. Commonly known or reasonably ascertainable information about the Subject Property (40 CFR 312.30)

- a. Do you know the past uses of the Subject Property? Yes  or No  If yes, please state.

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- b. Do you know of specific chemicals that are present or once were present at the Subject Property? Yes  or No  If yes, please state.

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- c. Do you know of spills or other chemical releases that have taken place at the Subject Property? Yes  or No  If yes, please state.

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6. Do you know of any environmental cleanups that have taken place at the Subject Property?  
Yes  or No  If yes, please state.

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7. The degree of obviousness of the presence or likely presence of contamination at the Subject Property and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of the Subject Property, based on your knowledge and experience related to the Subject Property, are there any obvious indicators that point to the presence or likely presence of contamination on the Subject Property? Yes  or No  If yes, please explain.


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This client questionnaire was completed by

Name: LELAND MCGEE  
Title: TRIBAL ADMINISTRATOR  
Signature:   
Company of User: S.R.R. - T.Y.T.  
Address of User: 16835 ALKALI DR. / P.O. BOX 8,  
LEMOORE, CA 93245  
Date: 5.13.2020

# **APPENDIX H**

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BIBLIOGRAPHY

# APPENDIX H

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## BIBLIOGRAPHY

- California Department of Conservation (CDC), 2021. Earthquake Zones of Required Investigation. Available online at: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>. Accessed December 2021.
- California Department of Transportation (Caltrans), 2013a. Technical Noise Supplement to the Traffic Noise Analysis Protocol. Available online at: <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed January 2022.
- Calrecycle, 2005. SWIS Facility/Site Activity Details American Avenue Disposal Site (10-AA-0009). Available online at: <https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/4535?siteID=352>. Accessed November 2022.
- Calrecycle, 2014. SWIS Facility/Site Activity Details Visalia Disposal Site (54-AA-0009) Available online at: <https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/822?siteID=3839>. Accessed November 2022.
- Calrecycle, 2021. 2021 Landfill Tonnage Report. Available online at: <https://www2.calrecycle.ca.gov/LandfillTipFees/>. Accessed November 2022
- Caltrans, 2013b. Transportation and Construction Vibration Guidance Manual. Available at: [http://www.dot.ca.gov/hq/env/noise/pub/TCVGM\\_Sep13\\_FINAL.pdf](http://www.dot.ca.gov/hq/env/noise/pub/TCVGM_Sep13_FINAL.pdf). Accessed January 2022.
- Caltrans, 2022. California State Scenic Highway System Map. Available online at: <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed January 2022.
- City of Hanford, 2010. City of Hanford General Plan Air Quality Element. Prepared by Michael Bradman and Associates for the City of Hanford. July 2010. Available online at: [https://www.cityofhanfordca.com/departments/community\\_development/planning\\_division/plans.php#revize\\_document\\_center\\_rz177](https://www.cityofhanfordca.com/departments/community_development/planning_division/plans.php#revize_document_center_rz177). Accessed March 2022.
- City of Lemoore, 2008b. City of Lemoore 2030 General Plan: General Plan Land Use Diagram. Available online at: [https://lemoore.com/wp-content/uploads/2018/01/lemoore\\_gp\\_ch6\\_pu\\_060208.pdf](https://lemoore.com/wp-content/uploads/2018/01/lemoore_gp_ch6_pu_060208.pdf). Accessed February 11, 2022.
- City of Lemoore, 2019. Press Release. Available online at: <https://lemoore.com/wp-content/uploads/2019/11/Groundbreaking-Press-Release-Nov-2019.pdf>. Accessed October 16, 2020.\

- Crawford and Bowen, 2020. Initial Study, Lacey Ranch Area Master Plan. Available online at: <https://lemoire.com/wp-content/uploads/2020/08/Lacey-Ranch-Initial-Study-Aug-2020.pdf>. Accessed March 2022.
- Federal Emergency Management Agency (FEMA), 2022. Flood Map Service Center. Available online: <https://msc.fema.gov/portal/home>. Accessed February 2022.
- Federal Highway Administration (FHWA), 2006. Highway Traffic Noise in the United States, Problem and Response. Available online at: [https://rosap.nsl.bts.gov/view/dot/14113/dot\\_14113\\_DS1.pdf?](https://rosap.nsl.bts.gov/view/dot/14113/dot_14113_DS1.pdf?). Accessed March 2022.
- FHWA, 2022. America's Byways. Available online at: <https://www.fhwa.dot.gov/byways/states/CA>. Accessed January 2022.
- Federal Interagency Committee on Noise (FICON), 1992. Federal Agency Review of Selected Airport Noise Analysis Issue. Available at: [https://fican1.files.wordpress.com/2015/08/about\\_ficon\\_findings\\_1992.pdf](https://fican1.files.wordpress.com/2015/08/about_ficon_findings_1992.pdf). Accessed January 2022.
- Gayton, Anna H., 1948. *Yokuts and Western Mono Ethnography. I: Tulare Lake, Southern Valley, and Central Foothill Yokuts*. Anthropological Records 10:1. University of California Press, Berkeley.
- Kings County, 2010. 2035 Kings County General Plan. Available online at: <https://www.countyofkings.com/departments/community-development-agency/information/2035-general-plan>. Accessed January 2022.
- Kings County. 2013. Agricultural preserves 2013 Williamson Act & Farmland Security Zone Properties. Available online at: <https://www.countyofkings.com/home/showdocument?id=3168>. Accessed January, 2022.
- Kings County Association of Governments (KCAG), 2014. Final Regional Climate Action Plan. Prepared by Rincon Consultants, Inc. on behalf of the City of Avenal and the City of Hanford. May 28, 2014. Available online at: [https://cms6.revize.com/revize/hanfordca/document\\_center/Planning/Plans/RegionalCAP-GHGAppendices.pdf](https://cms6.revize.com/revize/hanfordca/document_center/Planning/Plans/RegionalCAP-GHGAppendices.pdf). Accessed March 2022.
- Kings County, 2020. Final Budget Book Fiscal Year 2019-2020. Available online at: <https://www.countyofkings.com/home/showpublisheddocument?id=20505>. Accessed January 2022.
- Kings County, 2021a. Kings County Tax Rates 2021-2022. Available online at: <https://www.countyofkings.com/home/showpublisheddocument/27658/637686791221670000>. Accessed January 2022.
- Kings County, 2021b. Determined by the Kings County Assessor and made available through Parcel Quest Lite. Available online at: <https://assr.parcelquest.com/Statewide?IndexViewModel=PQGov.Models.IndexViewModel>. Accessed January 2022.

- Kings County, 2021c. Kings County Tax Collector Division, Where do my Property Tax Dollars Go? Available online at: <https://www.countyofkings.com/departments/administration/finance-department/tax-collector>. Accessed January 2022.
- Kings County, 2022a. County of Kings Parcel & Services Map Viewer Available online at: <https://kingscomdev.maps.arcgis.com/apps/webappviewer/index.html?id=35c6e6dac50446b9945154c9fc7f46c8>. Accessed January 2022.
- Kings County, 2022b, Kings County Office of Emergency Services. Available online at: <https://www.countyofkings.com/departments/emergency-preparedness>. Accessed March 2022.
- Kroeber, A.L., 1925. *Handbook of the Indians of California*. Bureau of American Ethnology Bulletin 78. Smithsonian Institution, Washington, District of Columbia.
- Myhre, G., D. Shindell, F.-M. Bréon, W. Collins, J. Fuglestedt, J. Huang, D. Koch, J.-F. Lamarque, D. Lee, B. Mendoza, T. Nakajima, A. Robock, G. Stephens, T. Takemura and H. Zhang, 2013. Anthropogenic and Natural Radiative Forcing. In: *Climate Change 2013: The Physical Science Basis*. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Available online at: <https://www.ipcc.ch/report/ar5/wg1/>. Accessed March 2022.
- Powers, Stephen, 1877. *Tribes of California*. Contributions to North American Ethnology, Vol. III.
- Quad Knopf, 2020. Initial Study for the Lennar Homes Tract Map 848. Available online at: <https://ceqanet.opr.ca.gov/2020049030/2>. Accessed March 2022.
- San Joaquin Valley Air Pollution Control District (SJVAPCD), 2012. Ambient Air Quality Standards and Valley Attainment Status. Available online at: <https://valleyair.org/aqinfo/attainment.htm>. Accessed March 2022.
- South Coast Air Quality Management District (SCAQMD), 2008. Attachment E: Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold. Authored by Smith, S. and Krause, M. October 2008. Available online at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgattachmente.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf). Accessed March 2022.
- Southern California Gas Company (SCGC), 2020. List of Cities and Communities Served. Available online at: <https://tariff.socalgas.com/regulatory/tariffs/tm2/pdf/CITIES.pdf>. Accessed March 2022.
- South Fork Kings (SFK). 2020. Groundwater Sustainability Plan. *Tulare Lake Subbasin Groundwater Sustainability Plan*. Available online at: <https://southforkkings.org/wp-content/uploads/2021/04/tulare-lake-subbasin-groundwater-sustainability-plan-january-2020.pdf>. Accessed February 11, 2022.
- Tachi-Yokut Tribe, 2020. Tribal Environmental Assessment, Tachi Palace Casino Resort Expansion Project. Available online at: <https://files.ceqanet.opr.ca.gov/264848->

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- [2/attachment/I0WU9n\\_hAI2nfjLOD5O1zpwz4Q1Y-Bvuw7fii5DTv2bWi8q7rLdN-ShuiC1jJ0Y46Eod1s9v4CsppTPI0](https://www.census.gov/quickfacts/fact/table/CA,kingscountycalifornia/PST045221). Accessed April 2023.
- U.S. Census Bureau, 2020. QuickFacts, California and Kings County. Available online at: <https://www.census.gov/quickfacts/fact/table/CA,kingscountycalifornia/PST045221>. Accessed January 2022.
- U.S. Energy Information Administration, 2017. Commercial Buildings Energy Consumption Survey. Available online at: <https://www.eia.gov/consumption/commercial/reports/2012/water/>. Accessed November 2022.
- U.S. Geological Service (USGS), 2021a. U.S. Quaternary Faults. Available online at: <https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf>. Accessed December 2021.
- USGS, 2021b. Mineral Resources Data System. Available online at: <https://mrdata.usgs.gov/mrds/map-us.html#place-picker>. Accessed December 2021.
- USGS, 2022. Watershed Boundary Data Set Map Viewer. Available online at: <https://www.arcgis.com/home/webmap/viewer.html?url=https://hydro.nationalmap.gov/arcgis/rest/services/wbd/MapServer&source=sd>. Accessed January 2022.
- University of California Museum of Paleontology (UCMP), 2022. Specimen Search. Available online at: Specimen Search (berkeley.edu). Accessed January 2022.
- U.S. Environmental Protection Agency (EPA), 2016. Fact Sheet: Direct Final Fine Particle Pollution De Minimis Emission Levels for General Conformity Applicability. March 31, 2016. Available at: [https://www.epa.gov/sites/production/files/2016-03/documents/gc\\_factsheet\\_pm2.5\\_deminimis\\_3312006.pdf](https://www.epa.gov/sites/production/files/2016-03/documents/gc_factsheet_pm2.5_deminimis_3312006.pdf). Accessed March 2022.